

Appendix

Example 0.1.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 3 \\ 1 & 1 & 2 & 2 \\ 1 & 1/2 & 1 & 5 \\ 1/3 & 1/2 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.282942 \\ 0.328453 \\ 0.290505 \\ 0.098100 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8614 & 0.9740 & 2.8842 \\ 1.1608 & 1 & 1.1306 & 3.3481 \\ 1.0267 & 0.8845 & 1 & 2.9613 \\ 0.3467 & 0.2987 & 0.3377 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.288325 \\ 0.325987 \\ 0.288325 \\ 0.097364 \end{pmatrix} = 0.992491 \cdot \begin{pmatrix} 0.290506 \\ 0.328453 \\ 0.290505 \\ 0.098100 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8845 & 1 & 2.9613 \\ 1.1306 & 1 & 1.1306 & 3.3481 \\ 1 & 0.8845 & 1 & 2.9613 \\ 0.3377 & 0.2987 & 0.3377 & 1 \end{pmatrix},$$

Example 0.2.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 3 \\ 1 & 1 & 3 & 4 \\ 1 & 1/3 & 1 & 2 \\ 1/3 & 1/4 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.290861 \\ 0.412083 \\ 0.200334 \\ 0.096722 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.7058 & 1.4519 & 3.0072 \\ 1.4168 & 1 & 2.0570 & 4.2605 \\ 0.6888 & 0.4862 & 1 & 2.0712 \\ 0.3325 & 0.2347 & 0.4828 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.290794 \\ 0.411987 \\ 0.200288 \\ 0.096931 \end{pmatrix} = 0.999770 \cdot \begin{pmatrix} 0.290861 \\ 0.412083 \\ 0.200334 \\ 0.096954 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.7058 & 1.4519 & 3 \\ 1.4168 & 1 & 2.0570 & 4.2503 \\ 0.6888 & 0.4862 & 1 & 2.0663 \\ 1/3 & 0.2353 & 0.4840 & 1 \end{pmatrix},$$

Example 0.3.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 3 \\ 1 & 1 & 4 & 5 \\ 1 & 1/4 & 1 & 2 \\ 1/3 & 1/5 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.281632 \\ 0.452399 \\ 0.179395 \\ \mathbf{0.086574} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6225 & 1.5699 & \mathbf{3.2531} \\ 1.6063 & 1 & 2.5218 & \mathbf{5.2256} \\ 0.6370 & 0.3965 & 1 & \mathbf{2.0721} \\ \mathbf{0.3074} & \mathbf{0.1914} & \mathbf{0.4826} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.280755 \\ 0.450990 \\ 0.178836 \\ 0.089418 \end{pmatrix} = 0.996888 \cdot \begin{pmatrix} 0.281632 \\ 0.452399 \\ 0.179395 \\ \mathbf{0.089697} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6225 & 1.5699 & \mathbf{3.1398} \\ 1.6063 & 1 & 2.5218 & \mathbf{5.0436} \\ 0.6370 & 0.3965 & 1 & \mathbf{2} \\ \mathbf{0.3185} & \mathbf{0.1983} & \mathbf{1/2} & 1 \end{pmatrix},$$

Example 0.4.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 3 \\ 1 & 1 & 5 & 6 \\ 1 & 1/5 & 1 & 2 \\ 1/3 & 1/6 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.273716 \\ 0.484184 \\ 0.163504 \\ \mathbf{0.078597} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.5653 & 1.6741 & \mathbf{3.4825} \\ 1.7689 & 1 & 2.9613 & \mathbf{6.1604} \\ 0.5974 & 0.3377 & 1 & \mathbf{2.0803} \\ \mathbf{0.2871} & \mathbf{0.1623} & \mathbf{0.4807} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.273142 \\ 0.483169 \\ 0.163161 \\ 0.080528 \end{pmatrix} = 0.997904 \cdot \begin{pmatrix} 0.273716 \\ 0.484184 \\ 0.163504 \\ \mathbf{0.080697} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.5653 & 1.6741 & \mathbf{3.3919} \\ 1.7689 & 1 & 2.9613 & \mathbf{6} \\ 0.5973 & 0.3377 & 1 & \mathbf{2.0261} \\ \mathbf{0.2948} & \mathbf{1/6} & \mathbf{0.4936} & 1 \end{pmatrix},$$

Example 0.5.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 4 \\ 1 & 1 & 3 & 6 \\ 1 & 1/3 & 1 & 3 \\ 1/4 & 1/6 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.294205 \\ 0.429083 \\ 0.207659 \\ 0.069054 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6857 & 1.4168 & 4.2605 \\ 1.4585 & 1 & 2.0663 & 6.2137 \\ 0.7058 & 0.4840 & 1 & 3.0072 \\ 0.2347 & 0.1609 & 0.3325 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.294156 \\ 0.429012 \\ 0.207624 \\ 0.069208 \end{pmatrix} = 0.999835 \cdot \begin{pmatrix} 0.294205 \\ 0.429083 \\ 0.207659 \\ 0.069220 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6857 & 1.4168 & 4.2503 \\ 1.4585 & 1 & 2.0663 & 6.1989 \\ 0.7058 & 0.4840 & 1 & 3 \\ 0.2353 & 0.1613 & 1/3 & 1 \end{pmatrix},$$

Example 0.6.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 4 \\ 1 & 1 & 5 & 7 \\ 1 & 1/5 & 1 & 2 \\ 1/4 & 1/7 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2287, \quad CR = 0.0862$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.285049 \\ 0.485707 \\ 0.160782 \\ 0.068461 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.5869 & 1.7729 & 4.1636 \\ 1.7039 & 1 & 3.0209 & 7.0946 \\ 0.5640 & 0.3310 & 1 & 2.3485 \\ 0.2402 & 0.1410 & 0.4258 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.284786 \\ 0.485258 \\ 0.160634 \\ 0.069322 \end{pmatrix} = 0.999075 \cdot \begin{pmatrix} 0.285049 \\ 0.485707 \\ 0.160782 \\ 0.069387 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.5869 & 1.7729 & 4.1081 \\ 1.7039 & 1 & 3.0209 & 7 \\ 0.5641 & 0.3310 & 1 & 2.3172 \\ 0.2434 & 1/7 & 0.4316 & 1 \end{pmatrix},$$

Example 0.7.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 5 \\ 1 & 1 & 2 & 3 \\ 1 & 1/2 & 1 & 1 \\ 1/5 & 1/3 & 1 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.347588 \\ \mathbf{0.338539} \\ 0.196496 \\ 0.117377 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{1.0267} & 1.7689 & 2.9613 \\ \mathbf{0.9740} & 1 & \mathbf{1.7229} & \mathbf{2.8842} \\ 0.5653 & \mathbf{0.5804} & 1 & 1.6741 \\ 0.3377 & \mathbf{0.3467} & 0.5973 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.344471 \\ 0.344471 \\ 0.194734 \\ 0.116324 \end{pmatrix} = 0.991032 \cdot \begin{pmatrix} 0.347588 \\ \mathbf{0.347588} \\ 0.196496 \\ 0.117377 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{1} & 1.7689 & 2.9613 \\ \mathbf{1} & 1 & \mathbf{1.7689} & \mathbf{2.9613} \\ 0.5653 & \mathbf{0.5653} & 1 & 1.6741 \\ 0.3377 & \mathbf{0.3377} & 0.5973 & 1 \end{pmatrix},$$

Example 0.8.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 5 \\ 1 & 1 & 2 & 3 \\ 1 & 1/2 & 1 & 8 \\ 1/5 & 1/3 & 1/8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.296278 \\ 0.337058 \\ 0.302162 \\ 0.064503 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8790 & 0.9805 & 4.5933 \\ 1.1376 & 1 & 1.1155 & 5.2255 \\ 1.0199 & 0.8965 & 1 & 4.6845 \\ 0.2177 & 0.1914 & 0.2135 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.300394 \\ 0.335087 \\ 0.300394 \\ 0.064125 \end{pmatrix} = 0.994153 \cdot \begin{pmatrix} 0.302161 \\ 0.337058 \\ 0.302162 \\ 0.064503 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8965 & 1 & 4.6845 \\ 1.1155 & 1 & 1.1155 & 5.2255 \\ 1 & 0.8965 & 1 & 4.6845 \\ 0.2135 & 0.1914 & 0.2135 & 1 \end{pmatrix},$$

Example 0.9.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 5 \\ 1 & 1 & 4 & 7 \\ 1 & 1/4 & 1 & 3 \\ 1/5 & 1/7 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1667, \quad CR = 0.0629$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.296614 \\ 0.458661 \\ 0.185748 \\ \mathbf{0.058977} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6467 & 1.5969 & \mathbf{5.0293} \\ 1.5463 & 1 & 2.4693 & \mathbf{7.7770} \\ 0.6262 & 0.4050 & 1 & \mathbf{3.1495} \\ \mathbf{0.1988} & \mathbf{0.1286} & \mathbf{0.3175} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.296512 \\ 0.458502 \\ 0.185684 \\ 0.059302 \end{pmatrix} = 0.999654 \cdot \begin{pmatrix} 0.296614 \\ 0.458661 \\ 0.185748 \\ \mathbf{0.059323} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6467 & 1.5969 & \mathbf{5} \\ 1.5463 & 1 & 2.4693 & \mathbf{7.7316} \\ 0.6262 & 0.4050 & 1 & \mathbf{3.1311} \\ \mathbf{1/5} & \mathbf{0.1293} & \mathbf{0.3194} & 1 \end{pmatrix},$$

Example 0.10.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 5 \\ 1 & 1 & 4 & 8 \\ 1 & 1/4 & 1 & 3 \\ 1/5 & 1/8 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.294112 \\ 0.466511 \\ 0.183094 \\ \mathbf{0.056284} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6304 & 1.6063 & \mathbf{5.2255} \\ 1.5862 & 1 & 2.5479 & \mathbf{8.2886} \\ 0.6225 & 0.3925 & 1 & \mathbf{3.2531} \\ \mathbf{0.1914} & \mathbf{0.1206} & \mathbf{0.3074} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.293516 \\ 0.465565 \\ 0.182723 \\ 0.058196 \end{pmatrix} = 0.997975 \cdot \begin{pmatrix} 0.294112 \\ 0.466511 \\ 0.183094 \\ \mathbf{0.058314} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6305 & 1.6063 & \mathbf{5.0436} \\ 1.5862 & 1 & 2.5479 & \mathbf{8} \\ 0.6225 & 0.3925 & 1 & \mathbf{3.1398} \\ \mathbf{0.1983} & \mathbf{1/8} & \mathbf{0.3185} & 1 \end{pmatrix},$$

Example 0.11.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 5 \\ 1 & 1 & 5 & 7 \\ 1 & 1/5 & 1 & 3 \\ 1/5 & 1/7 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2309, \quad CR = 0.0871$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.290246 \\ 0.480266 \\ 0.172490 \\ \mathbf{0.056998} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6043 & 1.6827 & \mathbf{5.0922} \\ 1.6547 & 1 & 2.7843 & \mathbf{8.4260} \\ 0.5943 & 0.3592 & 1 & \mathbf{3.0262} \\ \mathbf{0.1964} & \mathbf{0.1187} & \mathbf{0.3304} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.290101 \\ 0.480027 \\ 0.172404 \\ 0.057468 \end{pmatrix} = 0.999502 \cdot \begin{pmatrix} 0.290246 \\ 0.480266 \\ 0.172490 \\ \mathbf{0.057497} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6043 & 1.6827 & \mathbf{5.0480} \\ 1.6547 & 1 & 2.7843 & \mathbf{8.3529} \\ 0.5943 & 0.3592 & 1 & \mathbf{3} \\ \mathbf{0.1981} & \mathbf{0.1197} & \mathbf{1/3} & 1 \end{pmatrix},$$

Example 0.12.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 5 \\ 1 & 1 & 5 & 8 \\ 1 & 1/5 & 1 & 3 \\ 1/5 & 1/8 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2259, \quad CR = 0.0852$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.288057 \\ 0.487576 \\ 0.170044 \\ \mathbf{0.054323} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.5908 & 1.6940 & \mathbf{5.3026} \\ 1.6926 & 1 & 2.8674 & \mathbf{8.9755} \\ 0.5903 & 0.3488 & 1 & \mathbf{3.1302} \\ \mathbf{0.1886} & \mathbf{0.1114} & \mathbf{0.3195} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.287379 \\ 0.486429 \\ 0.169644 \\ 0.056548 \end{pmatrix} = 0.997647 \cdot \begin{pmatrix} 0.288057 \\ 0.487576 \\ 0.170044 \\ \mathbf{0.056681} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.5908 & 1.6940 & \mathbf{5.0820} \\ 1.6926 & 1 & 2.8674 & \mathbf{8.6021} \\ 0.5903 & 0.3488 & 1 & \mathbf{3} \\ \mathbf{0.1968} & \mathbf{0.1163} & \mathbf{1/3} & 1 \end{pmatrix},$$

Example 0.13.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 5 \\ 1 & 1 & 5 & 9 \\ 1 & 1/5 & 1 & 3 \\ 1/5 & 1/9 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2253, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.285991 \\ 0.494139 \\ 0.167773 \\ 0.052097 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.5788 & 1.7046 & 5.4896 \\ 1.7278 & 1 & 2.9453 & 9.4850 \\ 0.5866 & 0.3395 & 1 & 3.2204 \\ 0.1822 & 0.1054 & 0.3105 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.285191 \\ 0.492756 \\ 0.167303 \\ 0.054751 \end{pmatrix} = 0.997201 \cdot \begin{pmatrix} 0.285991 \\ 0.494139 \\ 0.167773 \\ 0.054904 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.5788 & 1.7046 & 5.2089 \\ 1.7278 & 1 & 2.9453 & 9 \\ 0.5866 & 0.3395 & 1 & 3.0557 \\ 0.1920 & 1/9 & 0.3273 & 1 \end{pmatrix},$$

Example 0.14.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 6 \\ 1 & 1 & 3 & 8 \\ 1 & 1/3 & 1 & 4 \\ 1/6 & 1/8 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.305642 \\ 0.433025 \\ 0.210515 \\ \mathbf{0.050818} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.7058 & 1.4519 & \mathbf{6.0144} \\ 1.4168 & 1 & 2.0570 & \mathbf{8.5210} \\ 0.6888 & 0.4862 & 1 & \mathbf{4.1425} \\ \mathbf{0.1663} & \mathbf{0.1174} & \mathbf{0.2414} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.305605 \\ 0.432972 \\ 0.210489 \\ 0.050934 \end{pmatrix} = 0.999879 \cdot \begin{pmatrix} 0.305642 \\ 0.433025 \\ 0.210515 \\ \mathbf{0.050940} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.7058 & 1.4519 & \mathbf{6} \\ 1.4168 & 1 & 2.0570 & \mathbf{8.5006} \\ 0.6888 & 0.4861 & 1 & \mathbf{4.1326} \\ \mathbf{1/6} & \mathbf{0.1176} & \mathbf{0.2420} & 1 \end{pmatrix},$$

Example 0.15.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 6 \\ 1 & 1 & 3 & 9 \\ 1 & 1/3 & 1 & 4 \\ 1/6 & 1/9 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.303171 \\ 0.440167 \\ 0.207872 \\ 0.048790 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6888 & 1.4585 & 6.2137 \\ 1.4519 & 1 & 2.1175 & 9.0216 \\ 0.6857 & 0.4723 & 1 & 4.2605 \\ 0.1609 & 0.1108 & 0.2347 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.303135 \\ 0.440116 \\ 0.207847 \\ 0.048902 \end{pmatrix} = 0.999883 \cdot \begin{pmatrix} 0.303171 \\ 0.440167 \\ 0.207872 \\ 0.048907 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6888 & 1.4585 & 6.1989 \\ 1.4519 & 1 & 2.1175 & 9 \\ 0.6857 & 0.4723 & 1 & 4.2503 \\ 0.1613 & 1/9 & 0.2353 & 1 \end{pmatrix},$$

Example 0.16.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 6 \\ 1 & 1 & 4 & 9 \\ 1 & 1/4 & 1 & 4 \\ 1/6 & 1/9 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.296380 \\ 0.466858 \\ 0.189794 \\ \mathbf{0.046968} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6348 & 1.5616 & \mathbf{6.3103} \\ 1.5752 & 1 & 2.4598 & \mathbf{9.9400} \\ 0.6404 & 0.4065 & 1 & \mathbf{4.0410} \\ \mathbf{0.1585} & \mathbf{0.1006} & \mathbf{0.2475} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.296237 \\ 0.466634 \\ 0.189703 \\ 0.047426 \end{pmatrix} = 0.999517 \cdot \begin{pmatrix} 0.296380 \\ 0.466858 \\ 0.189794 \\ \mathbf{0.047449} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6348 & 1.5616 & \mathbf{6.2463} \\ 1.5752 & 1 & 2.4598 & \mathbf{9.8393} \\ 0.6404 & 0.4065 & 1 & \mathbf{4} \\ \mathbf{0.1601} & \mathbf{0.1016} & \mathbf{1/4} & 1 \end{pmatrix},$$

Example 0.17.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 1/3 \\ 1 & 1 & 3 & 1/2 \\ 1 & 1/3 & 1 & 1/4 \\ 3 & 2 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.167200 \\ 0.243853 \\ 0.118015 \\ \mathbf{0.470931} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6857 & 1.4168 & \mathbf{0.3550} \\ 1.4585 & 1 & 2.0663 & \mathbf{0.5178} \\ 0.7058 & 0.4840 & 1 & \mathbf{0.2506} \\ \mathbf{2.8166} & \mathbf{1.9312} & \mathbf{3.9904} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.167012 \\ 0.243578 \\ 0.117882 \\ 0.471528 \end{pmatrix} = 0.998874 \cdot \begin{pmatrix} 0.167200 \\ 0.243853 \\ 0.118015 \\ \mathbf{0.472060} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6857 & 1.4168 & \mathbf{0.3542} \\ 1.4584 & 1 & 2.0663 & \mathbf{0.5166} \\ 0.7058 & 0.4840 & 1 & \mathbf{1/4} \\ \mathbf{2.8233} & \mathbf{1.9358} & \mathbf{4} & 1 \end{pmatrix},$$

Example 0.18.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 1/3 \\ 1 & 1 & 4 & 1/2 \\ 1 & 1/4 & 1 & 1/5 \\ 3 & 2 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.163542 \\ 0.256209 \\ 0.102107 \\ \mathbf{0.478142} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6383 & 1.6017 & \mathbf{0.3420} \\ 1.5666 & 1 & 2.5092 & \mathbf{0.5358} \\ 0.6243 & 0.3985 & 1 & \mathbf{0.2135} \\ \mathbf{2.9237} & \mathbf{1.8662} & \mathbf{4.6828} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.161525 \\ 0.253051 \\ 0.100848 \\ 0.484576 \end{pmatrix} = 0.987668 \cdot \begin{pmatrix} 0.163542 \\ 0.256209 \\ 0.102107 \\ \mathbf{0.490626} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6383 & 1.6017 & \mathbf{1/3} \\ 1.5666 & 1 & 2.5092 & \mathbf{0.5222} \\ 0.6243 & 0.3985 & 1 & \mathbf{0.2081} \\ \mathbf{3} & \mathbf{1.9149} & \mathbf{4.8050} & 1 \end{pmatrix},$$

Example 0.19.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 1/3 \\ 1 & 1 & 5 & 1/2 \\ 1 & 1/5 & 1 & 1/5 \\ 3 & 2 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.162588 \\ 0.272181 \\ 0.096294 \\ 0.468937 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.5974 & 1.6884 & 0.3467 \\ 1.6741 & 1 & 2.8266 & 0.5804 \\ 0.5923 & 0.3538 & 1 & 0.2053 \\ 2.8842 & 1.7229 & 4.8698 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.160575 \\ 0.268812 \\ 0.095102 \\ 0.475511 \end{pmatrix} = 0.987621 \cdot \begin{pmatrix} 0.162588 \\ 0.272181 \\ 0.096294 \\ 0.481471 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.5974 & 1.6884 & 0.3377 \\ 1.6741 & 1 & 2.8266 & 0.5653 \\ 0.5923 & 0.3538 & 1 & 1/5 \\ 2.9613 & 1.7689 & 5 & 1 \end{pmatrix},$$

Example 0.20.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 1/4 \\ 1 & 1 & 3 & 1/3 \\ 1 & 1/3 & 1 & 1/6 \\ 4 & 3 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.140925 \\ 0.199658 \\ 0.097064 \\ \mathbf{0.562353} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.7058 & 1.4519 & \mathbf{0.2506} \\ 1.4168 & 1 & 2.0570 & \mathbf{0.3550} \\ 0.6888 & 0.4862 & 1 & \mathbf{0.1726} \\ \mathbf{3.9904} & \mathbf{2.8166} & \mathbf{5.7936} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.140735 \\ 0.199390 \\ 0.096933 \\ 0.562942 \end{pmatrix} = 0.998651 \cdot \begin{pmatrix} 0.140925 \\ 0.199658 \\ 0.097064 \\ \mathbf{0.563702} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.7058 & 1.4519 & \mathbf{1/4} \\ 1.4168 & 1 & 2.0570 & \mathbf{0.3542} \\ 0.6888 & 0.4861 & 1 & \mathbf{0.1722} \\ \mathbf{4} & \mathbf{2.8233} & \mathbf{5.8075} & 1 \end{pmatrix},$$

Example 0.21.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 1/4 \\ 1 & 1 & 5 & 1/2 \\ 1 & 1/5 & 1 & 1/6 \\ 4 & 2 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.146799 \\ 0.259677 \\ 0.087690 \\ \mathbf{0.505834} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.5653 & 1.6741 & \mathbf{0.2902} \\ 1.7689 & 1 & 2.9613 & \mathbf{0.5134} \\ 0.5974 & 0.3377 & 1 & \mathbf{0.1734} \\ \mathbf{3.4458} & \mathbf{1.9479} & \mathbf{5.7684} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.144840 \\ 0.256213 \\ 0.086520 \\ 0.512426 \end{pmatrix} = 0.986656 \cdot \begin{pmatrix} 0.146799 \\ 0.259677 \\ 0.087690 \\ \mathbf{0.519356} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.5653 & 1.6741 & \mathbf{0.2827} \\ 1.7689 & 1 & 2.9613 & \mathbf{1/2} \\ 0.5974 & 0.3377 & 1 & \mathbf{0.1688} \\ \mathbf{3.5379} & \mathbf{2} & \mathbf{5.9226} & 1 \end{pmatrix},$$

Example 0.22.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 1/5 \\ 1 & 1 & 2 & 1/7 \\ 1 & 1/2 & 1 & 1/3 \\ 5 & 7 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2095, \quad CR = 0.0790$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.120956 \\ 0.141972 \\ 0.123527 \\ 0.613545 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8520 & 0.9792 & 0.1971 \\ 1.1738 & 1 & 1.1493 & 0.2314 \\ 1.0213 & 0.8701 & 1 & 0.2013 \\ 5.0724 & 4.3216 & 4.9669 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.122494 \\ 0.141724 \\ 0.123310 \\ 0.612472 \end{pmatrix} = 0.998251 \cdot \begin{pmatrix} 0.122709 \\ 0.141972 \\ 0.123527 \\ 0.613545 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8643 & 0.9934 & 1/5 \\ 1.1570 & 1 & 1.1493 & 0.2314 \\ 1.0067 & 0.8701 & 1 & 0.2013 \\ 5 & 4.3216 & 4.9669 & 1 \end{pmatrix},$$

Example 0.23.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 1/5 \\ 1 & 1 & 2 & 1/8 \\ 1 & 1/2 & 1 & 1/3 \\ 5 & 8 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.117556 \\ 0.135067 \\ 0.121310 \\ 0.626068 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8704 & 0.9690 & 0.1878 \\ 1.1490 & 1 & 1.1134 & 0.2157 \\ 1.0319 & 0.8982 & 1 & 0.1938 \\ 5.3257 & 4.6353 & 5.1609 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.120856 \\ 0.134562 \\ 0.120856 \\ 0.623726 \end{pmatrix} = 0.996264 \cdot \begin{pmatrix} 0.121309 \\ 0.135067 \\ 0.121310 \\ 0.626068 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8981 & 1 & 0.1938 \\ 1.1134 & 1 & 1.1134 & 0.2157 \\ 1 & 0.8981 & 1 & 0.1938 \\ 5.1609 & 4.6352 & 5.1609 & 1 \end{pmatrix},$$

Example 0.24.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 1/5 \\ 1 & 1 & 4 & 1/3 \\ 1 & 1/4 & 1 & 1/8 \\ 5 & 3 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.126394 \\ 0.202442 \\ 0.079288 \\ \mathbf{0.591876} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6243 & 1.5941 & \mathbf{0.2135} \\ 1.6017 & 1 & 2.5532 & \mathbf{0.3420} \\ 0.6273 & 0.3917 & 1 & \mathbf{0.1340} \\ \mathbf{4.6828} & \mathbf{2.9237} & \mathbf{7.4649} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.124471 \\ 0.199362 \\ 0.078082 \\ 0.598086 \end{pmatrix} = 0.984783 \cdot \begin{pmatrix} 0.126394 \\ 0.202442 \\ 0.079288 \\ \mathbf{0.607328} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6243 & 1.5941 & \mathbf{0.2081} \\ 1.6017 & 1 & 2.5533 & \mathbf{1/3} \\ 0.6273 & 0.3917 & 1 & \mathbf{0.1306} \\ \mathbf{4.8050} & \mathbf{3} & \mathbf{7.6598} & 1 \end{pmatrix},$$

Example 0.25.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 1/5 \\ 1 & 1 & 5 & 1/3 \\ 1 & 1/5 & 1 & 1/8 \\ 5 & 3 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2259, \quad CR = 0.0852$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.126314 \\ 0.215804 \\ 0.075118 \\ \mathbf{0.582764} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.5853 & 1.6816 & \mathbf{0.2168} \\ 1.7085 & 1 & 2.8729 & \mathbf{0.3703} \\ 0.5947 & 0.3481 & 1 & \mathbf{0.1289} \\ \mathbf{4.6136} & \mathbf{2.7004} & \mathbf{7.7580} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.124059 \\ 0.211951 \\ 0.073777 \\ 0.590213 \end{pmatrix} = 0.982146 \cdot \begin{pmatrix} 0.126314 \\ 0.215804 \\ 0.075118 \\ \mathbf{0.600943} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.5853 & 1.6815 & \mathbf{0.2102} \\ 1.7085 & 1 & 2.8729 & \mathbf{0.3591} \\ 0.5947 & 0.3481 & 1 & \mathbf{1/8} \\ \mathbf{4.7575} & \mathbf{2.7847} & \mathbf{8} & 1 \end{pmatrix},$$

Example 0.26.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 1/5 \\ 1 & 1 & 5 & 1/3 \\ 1 & 1/5 & 1 & 1/9 \\ 5 & 3 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2253, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.124677 \\ 0.211654 \\ 0.072159 \\ \mathbf{0.591510} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.5891 & 1.7278 & \mathbf{0.2108} \\ 1.6976 & 1 & 2.9332 & \mathbf{0.3578} \\ 0.5788 & 0.3409 & 1 & \mathbf{0.1220} \\ \mathbf{4.7443} & \mathbf{2.7947} & \mathbf{8.1973} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.120826 \\ 0.205117 \\ 0.069930 \\ 0.604127 \end{pmatrix} = 0.969113 \cdot \begin{pmatrix} 0.124677 \\ 0.211654 \\ 0.072159 \\ \mathbf{0.623382} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.5891 & 1.7278 & \mathbf{1/5} \\ 1.6976 & 1 & 2.9332 & \mathbf{0.3395} \\ 0.5788 & 0.3409 & 1 & \mathbf{0.1158} \\ \mathbf{5} & \mathbf{2.9453} & \mathbf{8.6391} & 1 \end{pmatrix},$$

Example 0.27.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 1/6 \\ 1 & 1 & 3 & 1/4 \\ 1 & 1/3 & 1 & 1/8 \\ 6 & 4 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.113670 \\ 0.165781 \\ 0.080231 \\ \mathbf{0.640318} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6857 & 1.4168 & \mathbf{0.1775} \\ 1.4585 & 1 & 2.0663 & \mathbf{0.2589} \\ 0.7058 & 0.4840 & 1 & \mathbf{0.1253} \\ \mathbf{5.6331} & \mathbf{3.8624} & \mathbf{7.9809} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.113495 \\ 0.165527 \\ 0.080109 \\ 0.640869 \end{pmatrix} = 0.998465 \cdot \begin{pmatrix} 0.113670 \\ 0.165781 \\ 0.080231 \\ \mathbf{0.641855} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6857 & 1.4168 & \mathbf{0.1771} \\ 1.4585 & 1 & 2.0663 & \mathbf{0.2583} \\ 0.7058 & 0.4840 & 1 & \mathbf{1/8} \\ \mathbf{5.6467} & \mathbf{3.8717} & \mathbf{8} & 1 \end{pmatrix},$$

Example 0.28.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 1/6 \\ 1 & 1 & 3 & 1/4 \\ 1 & 1/3 & 1 & 1/9 \\ 6 & 4 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.111967 \\ 0.162563 \\ 0.076771 \\ 0.648698 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6888 & 1.4585 & 0.1726 \\ 1.4519 & 1 & 2.1175 & 0.2506 \\ 0.6857 & 0.4723 & 1 & 0.1183 \\ 5.7936 & 3.9904 & 8.4497 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.111794 \\ 0.162311 \\ 0.076652 \\ 0.649243 \end{pmatrix} = 0.998451 \cdot \begin{pmatrix} 0.111967 \\ 0.162563 \\ 0.076771 \\ 0.650250 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6888 & 1.4585 & 0.1722 \\ 1.4519 & 1 & 2.1175 & 1/4 \\ 0.6857 & 0.4723 & 1 & 0.1181 \\ 5.8075 & 4 & 8.4700 & 1 \end{pmatrix},$$

Example 0.29.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 1/6 \\ 1 & 1 & 4 & 1/4 \\ 1 & 1/4 & 1 & 1/9 \\ 6 & 4 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.112101 \\ 0.176582 \\ 0.071787 \\ \mathbf{0.639531} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6348 & 1.5616 & \mathbf{0.1753} \\ 1.5752 & 1 & 2.4598 & \mathbf{0.2761} \\ 0.6404 & 0.4065 & 1 & \mathbf{0.1122} \\ \mathbf{5.7050} & \mathbf{3.6217} & \mathbf{8.9088} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.111372 \\ 0.175433 \\ 0.071319 \\ 0.641876 \end{pmatrix} = 0.993496 \cdot \begin{pmatrix} 0.112101 \\ 0.176582 \\ 0.071787 \\ \mathbf{0.646078} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6348 & 1.5616 & \mathbf{0.1735} \\ 1.5752 & 1 & 2.4598 & \mathbf{0.2733} \\ 0.6404 & 0.4065 & 1 & \mathbf{1/9} \\ \mathbf{5.7634} & \mathbf{3.6588} & \mathbf{9} & 1 \end{pmatrix},$$

Example 0.30.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1 & 1/6 \\ 1 & 1 & 5 & 1/3 \\ 1 & 1/5 & 1 & 1/9 \\ 6 & 3 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.117166 \\ 0.207258 \\ 0.069989 \\ \mathbf{0.605587} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.5653 & 1.6741 & \mathbf{0.1935} \\ 1.7689 & 1 & 2.9613 & \mathbf{0.3422} \\ 0.5974 & 0.3377 & 1 & \mathbf{0.1156} \\ \mathbf{5.1686} & \mathbf{2.9219} & \mathbf{8.6526} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.115299 \\ 0.203957 \\ 0.068874 \\ 0.611870 \end{pmatrix} = 0.984068 \cdot \begin{pmatrix} 0.117166 \\ 0.207258 \\ 0.069989 \\ \mathbf{0.621776} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.5653 & 1.6741 & \mathbf{0.1884} \\ 1.7689 & 1 & 2.9613 & \mathbf{1/3} \\ 0.5974 & 0.3377 & 1 & \mathbf{0.1126} \\ \mathbf{5.3068} & \mathbf{3} & \mathbf{8.8839} & 1 \end{pmatrix},$$

Example 0.31.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 3 \\ 1 & 1 & 3 & 2 \\ 1/2 & 1/3 & 1 & 2 \\ 1/3 & 1/2 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.345798 \\ 0.358116 \\ 0.173313 \\ 0.122773 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9656 & 1.9952 & 2.8166 \\ 1.0356 & 1 & 2.0663 & 2.9169 \\ 0.5012 & 0.4840 & 1 & 1.4117 \\ 0.3550 & 0.3428 & 0.7084 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.346340 \\ 0.357819 \\ 0.173170 \\ 0.122671 \end{pmatrix} = 0.999172 \cdot \begin{pmatrix} 0.346627 \\ 0.358116 \\ 0.173313 \\ 0.122773 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9679 & 2 & 2.8233 \\ 1.0331 & 1 & 2.0663 & 2.9169 \\ 1/2 & 0.4840 & 1 & 1.4117 \\ 0.3542 & 0.3428 & 0.7084 & 1 \end{pmatrix},$$

Example 0.32.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 3 \\ 1 & 1 & 3 & 9 \\ 1/2 & 1/3 & 1 & 2 \\ 1/3 & 1/9 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.316140 \\ 0.461074 \\ \mathbf{0.148405} \\ 0.074380 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6857 & \mathbf{2.1302} & 4.2503 \\ 1.4585 & 1 & \mathbf{3.1069} & 6.1989 \\ \mathbf{0.4694} & \mathbf{0.3219} & 1 & \mathbf{1.9952} \\ 0.2353 & 0.1613 & \mathbf{0.5012} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.316027 \\ 0.460911 \\ 0.148708 \\ 0.074354 \end{pmatrix} = 0.999643 \cdot \begin{pmatrix} 0.316140 \\ 0.461074 \\ \mathbf{0.148761} \\ 0.074380 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6857 & \mathbf{2.1252} & 4.2503 \\ 1.4585 & 1 & \mathbf{3.0994} & 6.1989 \\ \mathbf{0.4706} & \mathbf{0.3226} & 1 & \mathbf{2} \\ 0.2353 & 0.1613 & \mathbf{1/2} & 1 \end{pmatrix},$$

Example 0.33.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 3 \\ 1 & 1 & 6 & 4 \\ 1/2 & 1/6 & 1 & 1 \\ 1/3 & 1/4 & 1 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.323239 \\ 0.457955 \\ 0.111318 \\ 0.107489 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.7058 & 2.9038 & 3.0072 \\ 1.4168 & 1 & 4.1139 & 4.2605 \\ 0.3444 & 0.2431 & 1 & 1.0356 \\ 0.3325 & 0.2347 & 0.9656 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.323156 \\ 0.457837 \\ 0.111289 \\ 0.107719 \end{pmatrix} = 0.999743 \cdot \begin{pmatrix} 0.323239 \\ 0.457955 \\ 0.111318 \\ 0.107747 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.7058 & 2.9038 & 3 \\ 1.4168 & 1 & 4.1139 & 4.2503 \\ 0.3444 & 0.2431 & 1 & 1.0331 \\ 1/3 & 0.2353 & 0.9679 & 1 \end{pmatrix},$$

Example 0.34.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 3 \\ 1 & 1 & 7 & 4 \\ 1/2 & 1/7 & 1 & 1 \\ 1/3 & 1/4 & 1 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1365, \quad CR = 0.0515$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.318087 \\ 0.471201 \\ 0.105662 \\ \mathbf{0.105051} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6751 & 3.0104 & \mathbf{3.0279} \\ 1.4814 & 1 & 4.4595 & \mathbf{4.4855} \\ 0.3322 & 0.2242 & 1 & \mathbf{1.0058} \\ \mathbf{0.3303} & \mathbf{0.2229} & \mathbf{0.9942} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.317892 \\ 0.470913 \\ 0.105597 \\ 0.105597 \end{pmatrix} = 0.999389 \cdot \begin{pmatrix} 0.318087 \\ 0.471201 \\ 0.105662 \\ \mathbf{0.105662} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6751 & 3.0104 & \mathbf{3.0104} \\ 1.4814 & 1 & 4.4595 & \mathbf{4.4595} \\ 0.3322 & 0.2242 & 1 & \mathbf{1} \\ \mathbf{0.3322} & \mathbf{0.2242} & \mathbf{1} & 1 \end{pmatrix},$$

Example 0.35.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 3 \\ 1 & 1 & 8 & 5 \\ 1/2 & 1/8 & 1 & 1 \\ 1/3 & 1/5 & 1 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.309383 \\ 0.496977 \\ 0.098536 \\ \mathbf{0.095105} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6225 & 3.1398 & \mathbf{3.2531} \\ 1.6063 & 1 & 5.0436 & \mathbf{5.2256} \\ 0.3185 & 0.1983 & 1 & \mathbf{1.0361} \\ \mathbf{0.3074} & \mathbf{0.1914} & \mathbf{0.9652} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.308325 \\ 0.495277 \\ 0.098199 \\ 0.098199 \end{pmatrix} = 0.996582 \cdot \begin{pmatrix} 0.309383 \\ 0.496977 \\ 0.098536 \\ \mathbf{0.098536} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6225 & 3.1398 & \mathbf{3.1398} \\ 1.6063 & 1 & 5.0436 & \mathbf{5.0436} \\ 0.3185 & 0.1983 & 1 & \mathbf{1} \\ \mathbf{0.3185} & \mathbf{0.1983} & \mathbf{1} & 1 \end{pmatrix},$$

Example 0.36.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 3 \\ 1 & 1 & 9 & 5 \\ 1/2 & 1/9 & 1 & 1 \\ 1/3 & 1/5 & 1 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1966, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.305187 \\ 0.507194 \\ 0.094498 \\ \mathbf{0.093121} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6017 & 3.2296 & \mathbf{3.2773} \\ 1.6619 & 1 & 5.3672 & \mathbf{5.4466} \\ 0.3096 & 0.1863 & 1 & \mathbf{1.0148} \\ \mathbf{0.3051} & \mathbf{0.1836} & \mathbf{0.9854} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.304768 \\ 0.506496 \\ 0.094368 \\ 0.094368 \end{pmatrix} = 0.998626 \cdot \begin{pmatrix} 0.305187 \\ 0.507194 \\ 0.094498 \\ \mathbf{0.094498} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6017 & 3.2296 & \mathbf{3.2296} \\ 1.6619 & 1 & 5.3672 & \mathbf{5.3672} \\ 0.3096 & 0.1863 & 1 & \mathbf{1} \\ \mathbf{0.3096} & \mathbf{0.1863} & \mathbf{1} & 1 \end{pmatrix},$$

Example 0.37.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 4 \\ 1 & 1 & 3 & 3 \\ 1/2 & 1/3 & 1 & 3 \\ 1/4 & 1/3 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.352917 \\ 0.375899 \\ 0.182744 \\ 0.088441 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9389 & 1.9312 & 3.9904 \\ 1.0651 & 1 & 2.0570 & 4.2503 \\ 0.5178 & 0.4862 & 1 & 2.0663 \\ 0.2506 & 0.2353 & 0.4840 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.353463 \\ 0.375582 \\ 0.182589 \\ 0.088366 \end{pmatrix} = 0.999158 \cdot \begin{pmatrix} 0.353761 \\ 0.375899 \\ 0.182744 \\ 0.088441 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9411 & 1.9358 & 4 \\ 1.0626 & 1 & 2.0570 & 4.2503 \\ 0.5166 & 0.4861 & 1 & 2.0663 \\ 1/4 & 0.2353 & 0.4840 & 1 \end{pmatrix},$$

Example 0.38.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 5 \\ 1 & 1 & 3 & 3 \\ 1/2 & 1/3 & 1 & 4 \\ 1/5 & 1/3 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.360295 \\ 0.369702 \\ 0.193062 \\ 0.076941 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9746 & 1.8662 & 4.6828 \\ 1.0261 & 1 & 1.9149 & 4.8050 \\ 0.5358 & 0.5222 & 1 & 2.5092 \\ 0.2135 & 0.2081 & 0.3985 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.366257 \\ 0.366257 \\ 0.191263 \\ 0.076224 \end{pmatrix} = 0.990680 \cdot \begin{pmatrix} 0.369702 \\ 0.369702 \\ 0.193062 \\ 0.076941 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.9149 & 4.8050 \\ 1 & 1 & 1.9149 & 4.8050 \\ 0.5222 & 0.5222 & 1 & 2.5092 \\ 0.2081 & 0.2081 & 0.3985 & 1 \end{pmatrix},$$

Example 0.39.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 5 \\ 1 & 1 & 3 & 3 \\ 1/2 & 1/3 & 1 & 5 \\ 1/5 & 1/3 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.353867 \\ 0.368075 \\ 0.205393 \\ 0.072665 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9614 & 1.7229 & 4.8698 \\ 1.0401 & 1 & 1.7921 & 5.0654 \\ 0.5804 & 0.5580 & 1 & 2.8266 \\ 0.2053 & 0.1974 & 0.3538 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.359922 \\ 0.364625 \\ 0.203468 \\ 0.071984 \end{pmatrix} = 0.990628 \cdot \begin{pmatrix} 0.363327 \\ 0.368075 \\ 0.205393 \\ 0.072665 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9871 & 1.7689 & 5 \\ 1.0131 & 1 & 1.7921 & 5.0653 \\ 0.5653 & 0.5580 & 1 & 2.8266 \\ 1/5 & 0.1974 & 0.3538 & 1 \end{pmatrix},$$

Example 0.40.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 5 \\ 1 & 1 & 4 & 3 \\ 1/2 & 1/4 & 1 & 4 \\ 1/5 & 1/3 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.349006 \\ 0.397043 \\ 0.177968 \\ 0.075982 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8790 & 1.9611 & 4.5933 \\ 1.1376 & 1 & 2.2310 & 5.2255 \\ 0.5099 & 0.4482 & 1 & 2.3422 \\ 0.2177 & 0.1914 & 0.4269 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.353486 \\ 0.394312 \\ 0.176743 \\ 0.075459 \end{pmatrix} = 0.993120 \cdot \begin{pmatrix} 0.355935 \\ 0.397043 \\ 0.177968 \\ 0.075982 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8965 & 2 & 4.6845 \\ 1.1155 & 1 & 2.2310 & 5.2255 \\ 1/2 & 0.4482 & 1 & 2.3422 \\ 0.2135 & 0.1914 & 0.4269 & 1 \end{pmatrix},$$

Example 0.41.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 5 \\ 1 & 1 & 4 & 3 \\ 1/2 & 1/4 & 1 & 1/2 \\ 1/5 & 1/3 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.385459 \\ 0.375424 \\ 0.108952 \\ 0.130165 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0267 & 3.5379 & 2.9613 \\ 0.9740 & 1 & 3.4458 & 2.8842 \\ 0.2827 & 0.2902 & 1 & 0.8370 \\ 0.3377 & 0.3467 & 1.1947 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.381629 \\ 0.381629 \\ 0.107870 \\ 0.128872 \end{pmatrix} = 0.990064 \cdot \begin{pmatrix} 0.385459 \\ 0.385459 \\ 0.108952 \\ 0.130165 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 3.5379 & 2.9613 \\ 1 & 1 & 3.5379 & 2.9613 \\ 0.2827 & 0.2827 & 1 & 0.8370 \\ 0.3377 & 0.3377 & 1.1947 & 1 \end{pmatrix},$$

Example 0.42.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 5 \\ 1 & 1 & 1/2 & 3 \\ 1/2 & 2 & 1 & 4 \\ 1/5 & 1/3 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.383585 \\ 0.238794 \\ 0.304215 \\ \mathbf{0.073406} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.6063 & 1.2609 & \mathbf{5.2255} \\ 0.6225 & 1 & 0.7850 & \mathbf{3.2531} \\ 0.7931 & 1.2740 & 1 & \mathbf{4.1443} \\ \mathbf{0.1914} & \mathbf{0.3074} & \mathbf{0.2413} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.382572 \\ 0.238163 \\ 0.303412 \\ 0.075853 \end{pmatrix} = 0.997358 \cdot \begin{pmatrix} 0.383585 \\ 0.238794 \\ 0.304215 \\ \mathbf{0.076054} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.6063 & 1.2609 & \mathbf{5.0436} \\ 0.6225 & 1 & 0.7849 & \mathbf{3.1398} \\ 0.7931 & 1.2740 & 1 & \mathbf{4} \\ \mathbf{0.1983} & \mathbf{0.3185} & \mathbf{1/4} & 1 \end{pmatrix},$$

Example 0.43.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 6 \\ 1 & 1 & 3 & 4 \\ 1/2 & 1/3 & 1 & 1 \\ 1/6 & 1/4 & 1 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.392093 \\ 0.378607 \\ 0.134421 \\ 0.094879 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0356 & 2.9169 & 4.1326 \\ 0.9656 & 1 & 2.8166 & 3.9904 \\ 0.3428 & 0.3550 & 1 & 1.4168 \\ 0.2420 & 0.2506 & 0.7058 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.391738 \\ 0.379170 \\ 0.134299 \\ 0.094793 \end{pmatrix} = 0.999094 \cdot \begin{pmatrix} 0.392093 \\ 0.379514 \\ 0.134421 \\ 0.094879 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0331 & 2.9169 & 4.1326 \\ 0.9679 & 1 & 2.8233 & 4 \\ 0.3428 & 0.3542 & 1 & 1.4168 \\ 0.2420 & 1/4 & 0.7058 & 1 \end{pmatrix},$$

Example 0.44.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 6 \\ 1 & 1 & 3 & 4 \\ 1/2 & 1/3 & 1 & 4 \\ 1/6 & 1/4 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.368414 \\ 0.381537 \\ 0.184648 \\ 0.065401 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9656 & 1.9952 & 5.6331 \\ 1.0356 & 1 & 2.0663 & 5.8338 \\ 0.5012 & 0.4840 & 1 & 2.8233 \\ 0.1775 & 0.1714 & 0.3542 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.368971 \\ 0.381200 \\ 0.184485 \\ 0.065343 \end{pmatrix} = 0.999118 \cdot \begin{pmatrix} 0.369297 \\ 0.381537 \\ 0.184648 \\ 0.065401 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9679 & 2 & 5.6467 \\ 1.0331 & 1 & 2.0663 & 5.8338 \\ 1/2 & 0.4840 & 1 & 2.8233 \\ 0.1771 & 0.1714 & 0.3542 & 1 \end{pmatrix},$$

Example 0.45.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 6 \\ 1 & 1 & 3 & 4 \\ 1/2 & 1/3 & 1 & 5 \\ 1/6 & 1/4 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1502, \quad CR = 0.0566$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.362530 \\ 0.379939 \\ 0.195770 \\ 0.061761 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9542 & 1.8518 & 5.8699 \\ 1.0480 & 1 & 1.9407 & 6.1518 \\ 0.5400 & 0.5153 & 1 & 3.1698 \\ 0.1704 & 0.1626 & 0.3155 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.367612 \\ 0.376909 \\ 0.194209 \\ 0.061269 \end{pmatrix} = 0.992027 \cdot \begin{pmatrix} 0.370567 \\ 0.379939 \\ 0.195770 \\ 0.061761 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9753 & 1.8929 & 6 \\ 1.0253 & 1 & 1.9407 & 6.1517 \\ 0.5283 & 0.5153 & 1 & 3.1698 \\ 1/6 & 0.1626 & 0.3155 & 1 \end{pmatrix},$$

Example 0.46.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 6 \\ 1 & 1 & 4 & 4 \\ 1/2 & 1/4 & 1 & 5 \\ 1/6 & 1/4 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.351176 \\ 0.407663 \\ 0.180282 \\ 0.060879 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8614 & 1.9479 & 5.7684 \\ 1.1608 & 1 & 2.2613 & 6.6963 \\ 0.5134 & 0.4422 & 1 & 2.9613 \\ 0.1734 & 0.1493 & 0.3377 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.357211 \\ 0.403871 \\ 0.178605 \\ 0.060313 \end{pmatrix} = 0.990698 \cdot \begin{pmatrix} 0.360565 \\ 0.407663 \\ 0.180282 \\ 0.060879 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8845 & 2 & 5.9226 \\ 1.1306 & 1 & 2.2613 & 6.6962 \\ 1/2 & 0.4422 & 1 & 2.9613 \\ 0.1688 & 0.1493 & 0.3377 & 1 \end{pmatrix},$$

Example 0.47.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 6 \\ 1 & 1 & 6 & 8 \\ 1/2 & 1/6 & 1 & 2 \\ 1/6 & 1/8 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.341598 \\ 0.483965 \\ 0.117640 \\ \mathbf{0.056797} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.7058 & 2.9038 & \mathbf{6.0144} \\ 1.4168 & 1 & 4.1139 & \mathbf{8.5210} \\ 0.3444 & 0.2431 & 1 & \mathbf{2.0712} \\ \mathbf{0.1663} & \mathbf{0.1174} & \mathbf{0.4828} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.341551 \\ 0.483899 \\ 0.117624 \\ 0.056925 \end{pmatrix} = 0.999864 \cdot \begin{pmatrix} 0.341598 \\ 0.483965 \\ 0.117640 \\ \mathbf{0.056933} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.7058 & 2.9038 & \mathbf{6} \\ 1.4168 & 1 & 4.1139 & \mathbf{8.5006} \\ 0.3444 & 0.2431 & 1 & \mathbf{2.0663} \\ \mathbf{1/6} & \mathbf{0.1176} & \mathbf{0.4840} & 1 \end{pmatrix},$$

Example 0.48.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 6 \\ 1 & 1 & 6 & 9 \\ 1/2 & 1/6 & 1 & 2 \\ 1/6 & 1/9 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.338336 \\ 0.491223 \\ 0.115991 \\ 0.054450 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6888 & 2.9169 & 6.2137 \\ 1.4519 & 1 & 4.2350 & 9.0216 \\ 0.3428 & 0.2361 & 1 & 2.1302 \\ 0.1609 & 0.1108 & 0.4694 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.338292 \\ 0.491159 \\ 0.115976 \\ 0.054573 \end{pmatrix} = 0.999870 \cdot \begin{pmatrix} 0.338336 \\ 0.491223 \\ 0.115991 \\ 0.054580 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6888 & 2.9169 & 6.1989 \\ 1.4519 & 1 & 4.2350 & 9 \\ 0.3428 & 0.2361 & 1 & 2.1251 \\ 0.1613 & 1/9 & 0.4706 & 1 \end{pmatrix},$$

Example 0.49.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 6 \\ 1 & 1 & 7 & 8 \\ 1/2 & 1/7 & 1 & 2 \\ 1/6 & 1/8 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1365, \quad CR = 0.0515$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.335720 \\ 0.497323 \\ 0.111520 \\ \mathbf{0.055437} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6751 & 3.0104 & \mathbf{6.0559} \\ 1.4814 & 1 & 4.4595 & \mathbf{8.9709} \\ 0.3322 & 0.2242 & 1 & \mathbf{2.0116} \\ \mathbf{0.1651} & \mathbf{0.1115} & \mathbf{0.4971} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.335612 \\ 0.497163 \\ 0.111483 \\ 0.055742 \end{pmatrix} = 0.999677 \cdot \begin{pmatrix} 0.335720 \\ 0.497323 \\ 0.111520 \\ \mathbf{0.055760} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6751 & 3.0104 & \mathbf{6.0208} \\ 1.4814 & 1 & 4.4595 & \mathbf{8.9190} \\ 0.3322 & 0.2242 & 1 & \mathbf{2} \\ \mathbf{0.1661} & \mathbf{0.1121} & \mathbf{1/2} & 1 \end{pmatrix},$$

Example 0.50.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 6 \\ 1 & 1 & 7 & 9 \\ 1/2 & 1/7 & 1 & 2 \\ 1/6 & 1/9 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1342, \quad CR = 0.0506$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.332712 \\ 0.504228 \\ 0.109951 \\ \mathbf{0.053109} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6598 & 3.0260 & \mathbf{6.2647} \\ 1.5155 & 1 & 4.5860 & \mathbf{9.4942} \\ 0.3305 & 0.2181 & 1 & \mathbf{2.0703} \\ \mathbf{0.1596} & \mathbf{0.1053} & \mathbf{0.4830} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.332092 \\ 0.503289 \\ 0.109746 \\ 0.054873 \end{pmatrix} = 0.998136 \cdot \begin{pmatrix} 0.332712 \\ 0.504228 \\ 0.109951 \\ \mathbf{0.054975} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6598 & 3.0260 & \mathbf{6.0520} \\ 1.5155 & 1 & 4.5859 & \mathbf{9.1719} \\ 0.3305 & 0.2181 & 1 & \mathbf{2} \\ \mathbf{0.1652} & \mathbf{0.1090} & \mathbf{1/2} & 1 \end{pmatrix},$$

Example 0.51.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 6 \\ 1 & 1 & 8 & 9 \\ 1/2 & 1/8 & 1 & 2 \\ 1/6 & 1/9 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.327455 \\ 0.515807 \\ 0.104847 \\ \mathbf{0.051892} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6348 & 3.1232 & \mathbf{6.3103} \\ 1.5752 & 1 & 4.9196 & \mathbf{9.9400} \\ 0.3202 & 0.2033 & 1 & \mathbf{2.0205} \\ \mathbf{0.1585} & \mathbf{0.1006} & \mathbf{0.4949} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.327280 \\ 0.515533 \\ 0.104791 \\ 0.052396 \end{pmatrix} = 0.999467 \cdot \begin{pmatrix} 0.327455 \\ 0.515807 \\ 0.104847 \\ \mathbf{0.052423} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6348 & 3.1232 & \mathbf{6.2463} \\ 1.5752 & 1 & 4.9196 & \mathbf{9.8393} \\ 0.3202 & 0.2033 & 1 & \mathbf{2} \\ \mathbf{0.1601} & \mathbf{0.1016} & \mathbf{1/2} & 1 \end{pmatrix},$$

Example 0.52.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 6 \\ 1 & 1 & 1/2 & 4 \\ 1/2 & 2 & 1 & 5 \\ 1/6 & 1/4 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.385526 \\ 0.245574 \\ 0.309644 \\ \mathbf{0.059256} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.5699 & 1.2451 & \mathbf{6.5061} \\ 0.6370 & 1 & 0.7931 & \mathbf{4.1443} \\ 0.8032 & 1.2609 & 1 & \mathbf{5.2256} \\ \mathbf{0.1537} & \mathbf{0.2413} & \mathbf{0.1914} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.384704 \\ 0.245050 \\ 0.308984 \\ 0.061262 \end{pmatrix} = 0.997867 \cdot \begin{pmatrix} 0.385526 \\ 0.245574 \\ 0.309644 \\ \mathbf{0.061393} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.5699 & 1.2451 & \mathbf{6.2796} \\ 0.6370 & 1 & 0.7931 & \mathbf{4} \\ 0.8032 & 1.2609 & 1 & \mathbf{5.0436} \\ \mathbf{0.1592} & \mathbf{1/4} & \mathbf{0.1983} & 1 \end{pmatrix},$$

Example 0.53.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 7 \\ 1 & 1 & 3 & 4 \\ 1/2 & 1/3 & 1 & 5 \\ 1/7 & 1/4 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1512, \quad CR = 0.0570$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.372443 \\ 0.376198 \\ 0.192416 \\ 0.058943 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9900 & 1.9356 & 6.3187 \\ 1.0101 & 1 & 1.9551 & 6.3824 \\ 0.5166 & 0.5115 & 1 & 3.2645 \\ 0.1583 & 0.1567 & 0.3063 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.374791 \\ 0.374791 \\ 0.191696 \\ 0.058722 \end{pmatrix} = 0.996261 \cdot \begin{pmatrix} 0.376198 \\ 0.376198 \\ 0.192416 \\ 0.058943 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.9551 & 6.3824 \\ 1 & 1 & 1.9551 & 6.3824 \\ 0.5115 & 0.5115 & 1 & 3.2644 \\ 0.1567 & 0.1567 & 0.3063 & 1 \end{pmatrix},$$

Example 0.54.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 7 \\ 1 & 1 & 3 & 4 \\ 1/2 & 1/3 & 1 & 6 \\ 1/7 & 1/4 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1964, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.366876 \\ 0.374815 \\ 0.202061 \\ 0.056248 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9788 & 1.8157 & 6.5224 \\ 1.0216 & 1 & 1.8550 & 6.6636 \\ 0.5508 & 0.5391 & 1 & 3.5923 \\ 0.1533 & 0.1501 & 0.2784 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.371862 \\ 0.371862 \\ 0.200470 \\ 0.055805 \end{pmatrix} = 0.992123 \cdot \begin{pmatrix} 0.374815 \\ 0.374815 \\ 0.202061 \\ 0.056248 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.8550 & 6.6636 \\ 1 & 1 & 1.8550 & 6.6636 \\ 0.5391 & 0.5391 & 1 & 3.5923 \\ 0.1501 & 0.1501 & 0.2784 & 1 \end{pmatrix},$$

Example 0.55.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 7 \\ 1 & 1 & 3 & 4 \\ 1/2 & 1/3 & 1 & 7 \\ 1/7 & 1/4 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2421, \quad CR = 0.0913$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.361833 \\ 0.373328 \\ 0.210819 \\ 0.054020 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9692 & 1.7163 & 6.6981 \\ 1.0318 & 1 & 1.7709 & 6.9109 \\ 0.5826 & 0.5647 & 1 & 3.9026 \\ 0.1493 & 0.1447 & 0.2562 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.369085 \\ 0.369085 \\ 0.208423 \\ 0.053406 \end{pmatrix} = 0.988634 \cdot \begin{pmatrix} 0.373328 \\ 0.373328 \\ 0.210819 \\ 0.054020 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.7708 & 6.9109 \\ 1 & 1 & 1.7708 & 6.9109 \\ 0.5647 & 0.5647 & 1 & 3.9026 \\ 0.1447 & 0.1447 & 0.2562 & 1 \end{pmatrix},$$

Example 0.56.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 7 \\ 1 & 1 & 3 & 5 \\ 1/2 & 1/3 & 1 & 1 \\ 1/7 & 1/5 & 1 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1351, \quad CR = 0.0509$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.396520 \\ 0.387339 \\ 0.131439 \\ 0.084703 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0237 & 3.0168 & 4.6813 \\ 0.9768 & 1 & 2.9469 & 4.5729 \\ 0.3315 & 0.3393 & 1 & 1.5518 \\ 0.2136 & 0.2187 & 0.6444 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.393772 \\ 0.391584 \\ 0.130528 \\ 0.084116 \end{pmatrix} = 0.993070 \cdot \begin{pmatrix} 0.396520 \\ 0.394317 \\ 0.131439 \\ 0.084703 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0056 & 3.0168 & 4.6813 \\ 0.9944 & 1 & 3 & 4.6553 \\ 0.3315 & 1/3 & 1 & 1.5518 \\ 0.2136 & 0.2148 & 0.6444 & 1 \end{pmatrix},$$

Example 0.57.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 7 \\ 1 & 1 & 3 & 5 \\ 1/2 & 1/3 & 1 & 5 \\ 1/7 & 1/5 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1027, \quad CR = 0.0387$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.368908 \\ 0.388438 \\ 0.188481 \\ 0.054174 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9497 & 1.9573 & 6.8097 \\ 1.0529 & 1 & 2.0609 & 7.1702 \\ 0.5109 & 0.4852 & 1 & 3.4792 \\ 0.1468 & 0.1395 & 0.2874 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.373949 \\ 0.385336 \\ 0.186975 \\ 0.053741 \end{pmatrix} = 0.992014 \cdot \begin{pmatrix} 0.376959 \\ 0.388438 \\ 0.188481 \\ 0.054174 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9704 & 2 & 6.9584 \\ 1.0305 & 1 & 2.0609 & 7.1703 \\ 1/2 & 0.4852 & 1 & 3.4792 \\ 0.1437 & 0.1395 & 0.2874 & 1 \end{pmatrix},$$

Example 0.58.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 7 \\ 1 & 1 & 4 & 5 \\ 1/2 & 1/4 & 1 & 6 \\ 1/7 & 1/5 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2174, \quad CR = 0.0820$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.352583 \\ 0.414708 \\ 0.181854 \\ 0.050855 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8502 & 1.9388 & 6.9331 \\ 1.1762 & 1 & 2.2804 & 8.1547 \\ 0.5158 & 0.4385 & 1 & 3.5759 \\ 0.1442 & 0.1226 & 0.2796 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.354777 \\ 0.413302 \\ 0.181238 \\ 0.050682 \end{pmatrix} = 0.996610 \cdot \begin{pmatrix} 0.355984 \\ 0.414708 \\ 0.181854 \\ 0.050855 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8584 & 1.9575 & 7 \\ 1.1650 & 1 & 2.2804 & 8.1547 \\ 0.5109 & 0.4385 & 1 & 3.5760 \\ 1/7 & 0.1226 & 0.2796 & 1 \end{pmatrix},$$

Example 0.59.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 7 \\ 1 & 1 & 1/2 & 4 \\ 1/2 & 2 & 1 & 5 \\ 1/7 & 1/4 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1665, \quad CR = 0.0628$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.394416 \\ 0.243935 \\ 0.305311 \\ \mathbf{0.056337} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.6169 & 1.2919 & \mathbf{7.0010} \\ 0.6185 & 1 & 0.7990 & \mathbf{4.3299} \\ 0.7741 & 1.2516 & 1 & \mathbf{5.4193} \\ \mathbf{0.1428} & \mathbf{0.2310} & \mathbf{0.1845} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.394413 \\ 0.243934 \\ 0.305308 \\ 0.056345 \end{pmatrix} = 0.999992 \cdot \begin{pmatrix} 0.394416 \\ 0.243935 \\ 0.305311 \\ \mathbf{0.056345} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.6169 & 1.2919 & \mathbf{7} \\ 0.6185 & 1 & 0.7990 & \mathbf{4.3293} \\ 0.7741 & 1.2516 & 1 & \mathbf{5.4186} \\ \mathbf{1/7} & \mathbf{0.2310} & \mathbf{0.1846} & 1 \end{pmatrix},$$

Example 0.60.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 7 \\ 1 & 1 & 1/2 & 5 \\ 1/2 & 2 & 1 & 6 \\ 1/7 & 1/5 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1667, \quad CR = 0.0629$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.386811 \\ 0.250150 \\ 0.313301 \\ 0.049738 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.5463 & 1.2346 & 7.7770 \\ 0.6467 & 1 & 0.7984 & 5.0293 \\ 0.8100 & 1.2525 & 1 & 6.2990 \\ 0.1286 & 0.1988 & 0.1588 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.386698 \\ 0.250077 \\ 0.313210 \\ 0.050015 \end{pmatrix} = 0.999708 \cdot \begin{pmatrix} 0.386811 \\ 0.250150 \\ 0.313301 \\ 0.050030 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.5463 & 1.2346 & 7.7316 \\ 0.6467 & 1 & 0.7984 & 5 \\ 0.8100 & 1.2525 & 1 & 6.2623 \\ 0.1293 & 1/5 & 0.1597 & 1 \end{pmatrix},$$

Example 0.61.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 8 \\ 1 & 1 & 3 & 5 \\ 1/2 & 1/3 & 1 & 1 \\ 1/8 & 1/5 & 1 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.407909 \\ 0.380623 \\ 0.130187 \\ 0.081282 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0717 & 3.1333 & 5.0185 \\ 0.9331 & 1 & 2.9237 & 4.6828 \\ 0.3192 & 0.3420 & 1 & 1.6017 \\ 0.1993 & 0.2135 & 0.6243 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.403895 \\ 0.386717 \\ 0.128906 \\ 0.080482 \end{pmatrix} = 0.990160 \cdot \begin{pmatrix} 0.407909 \\ 0.390560 \\ 0.130187 \\ 0.081282 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0444 & 3.1333 & 5.0185 \\ 0.9575 & 1 & 3 & 4.8050 \\ 0.3192 & 1/3 & 1 & 1.6017 \\ 0.1993 & 0.2081 & 0.6243 & 1 \end{pmatrix},$$

Example 0.62.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 8 \\ 1 & 1 & 3 & 5 \\ 1/2 & 1/3 & 1 & 6 \\ 1/8 & 1/5 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1406, \quad CR = 0.0530$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.372328 \\ 0.383431 \\ 0.194673 \\ 0.049568 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9710 & 1.9126 & 7.5114 \\ 1.0298 & 1 & 1.9696 & 7.7354 \\ 0.5229 & 0.5077 & 1 & 3.9274 \\ 0.1331 & 0.1293 & 0.2546 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.379220 \\ 0.379220 \\ 0.192536 \\ 0.049024 \end{pmatrix} = 0.989018 \cdot \begin{pmatrix} 0.383431 \\ 0.383431 \\ 0.194673 \\ 0.049568 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.9696 & 7.7354 \\ 1 & 1 & 1.9696 & 7.7354 \\ 0.5077 & 0.5077 & 1 & 3.9274 \\ 0.1293 & 0.1293 & 0.2546 & 1 \end{pmatrix},$$

Example 0.63.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 8 \\ 1 & 1 & 3 & 5 \\ 1/2 & 1/3 & 1 & 7 \\ 1/8 & 1/5 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1782, \quad CR = 0.0672$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.367638 \\ 0.381983 \\ 0.202768 \\ 0.047612 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9624 & 1.8131 & 7.7216 \\ 1.0390 & 1 & 1.8838 & 8.0229 \\ 0.5515 & 0.5308 & 1 & 4.2588 \\ 0.1295 & 0.1246 & 0.2348 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.375911 \\ 0.376985 \\ 0.200115 \\ 0.046989 \end{pmatrix} = 0.986916 \cdot \begin{pmatrix} 0.380895 \\ 0.381983 \\ 0.202768 \\ 0.047612 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9972 & 1.8785 & 8 \\ 1.0029 & 1 & 1.8838 & 8.0229 \\ 0.5323 & 0.5308 & 1 & 4.2588 \\ 1/8 & 0.1246 & 0.2348 & 1 \end{pmatrix},$$

Example 0.64.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 8 \\ 1 & 1 & 3 & 5 \\ 1/2 & 1/3 & 1 & 8 \\ 1/8 & 1/5 & 1/8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2162, \quad CR = 0.0815$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.363332 \\ 0.380495 \\ 0.210221 \\ 0.045952 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9549 & 1.7283 & 7.9067 \\ 1.0472 & 1 & 1.8100 & 8.2802 \\ 0.5786 & 0.5525 & 1 & 4.5748 \\ 0.1265 & 0.1208 & 0.2186 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.366050 \\ 0.378871 \\ 0.209323 \\ 0.045756 \end{pmatrix} = 0.995731 \cdot \begin{pmatrix} 0.367619 \\ 0.380495 \\ 0.210221 \\ 0.045952 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9662 & 1.7487 & 8 \\ 1.0350 & 1 & 1.8100 & 8.2802 \\ 0.5718 & 0.5525 & 1 & 4.5747 \\ 1/8 & 0.1208 & 0.2186 & 1 \end{pmatrix},$$

Example 0.65.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 8 \\ 1 & 1 & 3 & 6 \\ 1/2 & 1/3 & 1 & 6 \\ 1/8 & 1/6 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.369245 \\ 0.393290 \\ 0.191199 \\ 0.046266 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9389 & 1.9312 & 7.9808 \\ 1.0651 & 1 & 2.0570 & 8.5006 \\ 0.5178 & 0.4862 & 1 & 4.1326 \\ 0.1253 & 0.1176 & 0.2420 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.369802 \\ 0.392943 \\ 0.191030 \\ 0.046225 \end{pmatrix} = 0.999117 \cdot \begin{pmatrix} 0.370129 \\ 0.393290 \\ 0.191199 \\ 0.046266 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9411 & 1.9358 & 8 \\ 1.0626 & 1 & 2.0570 & 8.5006 \\ 0.5166 & 0.4862 & 1 & 4.1326 \\ 1/8 & 0.1176 & 0.2420 & 1 \end{pmatrix},$$

Example 0.66.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 8 \\ 1 & 1 & 4 & 5 \\ 1/2 & 1/4 & 1 & 7 \\ 1/8 & 1/5 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2610, \quad CR = 0.0984$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.355747 \\ 0.410379 \\ 0.186881 \\ 0.046992 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8669 & 1.9036 & 7.5703 \\ 1.1536 & 1 & 2.1959 & 8.7329 \\ 0.5253 & 0.4554 & 1 & 3.9768 \\ 0.1321 & 0.1145 & 0.2515 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.367148 \\ 0.403116 \\ 0.183574 \\ 0.046161 \end{pmatrix} = 0.982302 \cdot \begin{pmatrix} 0.373763 \\ 0.410379 \\ 0.186881 \\ 0.046992 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9108 & 2 & 7.9537 \\ 1.0980 & 1 & 2.1959 & 8.7328 \\ 1/2 & 0.4554 & 1 & 3.9768 \\ 0.1257 & 0.1145 & 0.2515 & 1 \end{pmatrix},$$

Example 0.67.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 8 \\ 1 & 1 & 1/2 & 5 \\ 1/2 & 2 & 1 & 6 \\ 1/8 & 1/5 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.394314 \\ 0.248596 \\ 0.309517 \\ \mathbf{0.047573} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.5862 & 1.2740 & \mathbf{8.2886} \\ 0.6305 & 1 & 0.8032 & \mathbf{5.2255} \\ 0.7850 & 1.2451 & 1 & \mathbf{6.5061} \\ \mathbf{0.1206} & \mathbf{0.1914} & \mathbf{0.1537} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.393639 \\ 0.248170 \\ 0.308987 \\ 0.049205 \end{pmatrix} = 0.998287 \cdot \begin{pmatrix} 0.394314 \\ 0.248596 \\ 0.309517 \\ \mathbf{0.049289} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.5862 & 1.2740 & \mathbf{8} \\ 0.6305 & 1 & 0.8032 & \mathbf{5.0436} \\ 0.7850 & 1.2451 & 1 & \mathbf{6.2796} \\ \mathbf{1/8} & \mathbf{0.1983} & \mathbf{0.1592} & 1 \end{pmatrix},$$

Example 0.68.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 8 \\ 1 & 1 & 1/2 & 5 \\ 1/2 & 2 & 1 & 7 \\ 1/8 & 1/5 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1665, \quad CR = 0.0628$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.392200 \\ 0.245439 \\ 0.317072 \\ 0.045289 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.5979 & 1.2369 & 8.6599 \\ 0.6258 & 1 & 0.7741 & 5.4194 \\ 0.8084 & 1.2919 & 1 & 7.0010 \\ 0.1155 & 0.1845 & 0.1428 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.392197 \\ 0.245438 \\ 0.317069 \\ 0.045296 \end{pmatrix} = 0.999993 \cdot \begin{pmatrix} 0.392200 \\ 0.245439 \\ 0.317072 \\ 0.045296 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.5979 & 1.2369 & 8.6586 \\ 0.6258 & 1 & 0.7741 & 5.4186 \\ 0.8084 & 1.2918 & 1 & 7 \\ 0.1155 & 0.1846 & 1/7 & 1 \end{pmatrix},$$

Example 0.69.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 9 \\ 1 & 1 & 3 & 5 \\ 1/2 & 1/3 & 1 & 1 \\ 1/9 & 1/5 & 1 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1966, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.418313 \\ 0.374401 \\ 0.128973 \\ 0.078313 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1173 & 3.2434 & 5.3416 \\ 0.8950 & 1 & 2.9029 & 4.7808 \\ 0.3083 & 0.3445 & 1 & 1.6469 \\ 0.1872 & 0.2092 & 0.6072 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.413142 \\ 0.382135 \\ 0.127378 \\ 0.077345 \end{pmatrix} = 0.987638 \cdot \begin{pmatrix} 0.418313 \\ 0.386918 \\ 0.128973 \\ 0.078313 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0811 & 3.2434 & 5.3416 \\ 0.9249 & 1 & 3 & 4.9407 \\ 0.3083 & 1/3 & 1 & 1.6469 \\ 0.1872 & 0.2024 & 0.6072 & 1 \end{pmatrix},$$

Example 0.70.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 9 \\ 1 & 1 & 3 & 5 \\ 1/2 & 1/3 & 1 & 6 \\ 1/9 & 1/5 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1433, \quad CR = 0.0540$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.379996 \\ 0.380190 \\ 0.192011 \\ 0.047803 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9995 & 1.9790 & 7.9491 \\ 1.0005 & 1 & 1.9800 & 7.9532 \\ 0.5053 & 0.5050 & 1 & 4.0167 \\ 0.1258 & 0.1257 & 0.2490 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.380116 \\ 0.380116 \\ 0.191974 \\ 0.047794 \end{pmatrix} = 0.999806 \cdot \begin{pmatrix} 0.380190 \\ 0.380190 \\ 0.192011 \\ 0.047803 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.9800 & 7.9531 \\ 1 & 1 & 1.9800 & 7.9531 \\ 0.5050 & 0.5050 & 1 & 4.0167 \\ 0.1257 & 0.1257 & 0.2490 & 1 \end{pmatrix},$$

Example 0.71.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 9 \\ 1 & 1 & 3 & 5 \\ 1/2 & 1/3 & 1 & 7 \\ 1/9 & 1/5 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1786, \quad CR = 0.0673$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.375126 \\ 0.378994 \\ 0.199935 \\ 0.045945 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9898 & 1.8762 & 8.1646 \\ 1.0103 & 1 & 1.8956 & 8.2488 \\ 0.5330 & 0.5275 & 1 & 4.3516 \\ 0.1225 & 0.1212 & 0.2298 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.377533 \\ 0.377533 \\ 0.199166 \\ 0.045768 \end{pmatrix} = 0.996146 \cdot \begin{pmatrix} 0.378994 \\ 0.378994 \\ 0.199935 \\ 0.045945 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.8956 & 8.2488 \\ 1 & 1 & 1.8956 & 8.2488 \\ 0.5275 & 0.5275 & 1 & 4.3516 \\ 0.1212 & 0.1212 & 0.2298 & 1 \end{pmatrix},$$

Example 0.72.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 9 \\ 1 & 1 & 3 & 5 \\ 1/2 & 1/3 & 1 & 8 \\ 1/9 & 1/5 & 1/8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2146, \quad CR = 0.0809$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.370663 \\ 0.377724 \\ 0.207242 \\ 0.044371 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9813 & 1.7886 & 8.3538 \\ 1.0191 & 1 & 1.8226 & 8.5129 \\ 0.5591 & 0.5487 & 1 & 4.6707 \\ 0.1197 & 0.1175 & 0.2141 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.375076 \\ 0.375076 \\ 0.205789 \\ 0.044059 \end{pmatrix} = 0.992988 \cdot \begin{pmatrix} 0.377724 \\ 0.377724 \\ 0.207242 \\ 0.044371 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.8226 & 8.5129 \\ 1 & 1 & 1.8226 & 8.5129 \\ 0.5487 & 0.5487 & 1 & 4.6707 \\ 0.1175 & 0.1175 & 0.2141 & 1 \end{pmatrix},$$

Example 0.73.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 9 \\ 1 & 1 & 3 & 5 \\ 1/2 & 1/3 & 1 & 9 \\ 1/9 & 1/5 & 1/9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2508, \quad CR = 0.0946$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.366538 \\ 0.376424 \\ 0.214035 \\ 0.043003 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9737 & 1.7125 & 8.5235 \\ 1.0270 & 1 & 1.7587 & 8.7534 \\ 0.5839 & 0.5686 & 1 & 4.9772 \\ 0.1173 & 0.1142 & 0.2009 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.372739 \\ 0.372739 \\ 0.211940 \\ 0.042582 \end{pmatrix} = 0.990211 \cdot \begin{pmatrix} 0.376424 \\ 0.376424 \\ 0.214035 \\ 0.043003 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.7587 & 8.7534 \\ 1 & 1 & 1.7587 & 8.7534 \\ 0.5686 & 0.5686 & 1 & 4.9772 \\ 0.1142 & 0.1142 & 0.2009 & 1 \end{pmatrix},$$

Example 0.74.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 9 \\ 1 & 1 & 3 & 6 \\ 1/2 & 1/3 & 1 & 6 \\ 1/9 & 1/6 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.376624 \\ 0.390040 \\ 0.188763 \\ 0.044572 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9656 & 1.9952 & 8.4497 \\ 1.0356 & 1 & 2.0663 & 8.7507 \\ 0.5012 & 0.4840 & 1 & 4.2350 \\ 0.1183 & 0.1143 & 0.2361 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.377186 \\ 0.389688 \\ 0.188593 \\ 0.044532 \end{pmatrix} = 0.999099 \cdot \begin{pmatrix} 0.377527 \\ 0.390040 \\ 0.188763 \\ 0.044572 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9679 & 2 & 8.4700 \\ 1.0331 & 1 & 2.0663 & 8.7507 \\ 1/2 & 0.4840 & 1 & 4.2350 \\ 0.1181 & 0.1143 & 0.2361 & 1 \end{pmatrix},$$

Example 0.75.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 9 \\ 1 & 1 & 3 & 6 \\ 1/2 & 1/3 & 1 & 7 \\ 1/9 & 1/6 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1342, \quad CR = 0.0506$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.372218 \\ 0.388641 \\ 0.196330 \\ 0.042811 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9577 & 1.8959 & 8.6944 \\ 1.0441 & 1 & 1.9795 & 9.0780 \\ 0.5275 & 0.5052 & 1 & 4.5860 \\ 0.1150 & 0.1102 & 0.2181 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.380325 \\ 0.383622 \\ 0.193794 \\ 0.042258 \end{pmatrix} = 0.987087 \cdot \begin{pmatrix} 0.385301 \\ 0.388641 \\ 0.196330 \\ 0.042811 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9914 & 1.9625 & 9 \\ 1.0087 & 1 & 1.9795 & 9.0780 \\ 0.5095 & 0.5052 & 1 & 4.5859 \\ 1/9 & 0.1102 & 0.2181 & 1 \end{pmatrix},$$

Example 0.76.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 9 \\ 1 & 1 & 3 & 6 \\ 1/2 & 1/3 & 1 & 8 \\ 1/9 & 1/6 & 1/8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.368162 \\ 0.387204 \\ 0.203308 \\ 0.041326 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9508 & 1.8109 & 8.9088 \\ 1.0517 & 1 & 1.9045 & 9.3695 \\ 0.5522 & 0.5251 & 1 & 4.9196 \\ 0.1122 & 0.1067 & 0.2033 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.370536 \\ 0.385749 \\ 0.202545 \\ 0.041171 \end{pmatrix} = 0.996242 \cdot \begin{pmatrix} 0.371933 \\ 0.387204 \\ 0.203308 \\ 0.041326 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9606 & 1.8294 & 9 \\ 1.0411 & 1 & 1.9045 & 9.3695 \\ 0.5466 & 0.5251 & 1 & 4.9197 \\ 1/9 & 0.1067 & 0.2033 & 1 \end{pmatrix},$$

Example 0.77.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 9 \\ 1 & 1 & 4 & 5 \\ 1/2 & 1/4 & 1 & 7 \\ 1/9 & 1/5 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2614, \quad CR = 0.0986$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.363175 \\ 0.407068 \\ 0.184347 \\ 0.045411 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8922 & 1.9701 & 7.9976 \\ 1.1209 & 1 & 2.2082 & 8.9642 \\ 0.5076 & 0.4529 & 1 & 4.0595 \\ 0.1250 & 0.1116 & 0.2463 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.366670 \\ 0.404834 \\ 0.183335 \\ 0.045161 \end{pmatrix} = 0.994512 \cdot \begin{pmatrix} 0.368693 \\ 0.407068 \\ 0.184347 \\ 0.045411 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9057 & 2 & 8.1191 \\ 1.1041 & 1 & 2.2082 & 8.9642 \\ 1/2 & 0.4529 & 1 & 4.0596 \\ 0.1232 & 0.1116 & 0.2463 & 1 \end{pmatrix},$$

Example 0.78.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 9 \\ 1 & 1 & 4 & 6 \\ 1/2 & 1/4 & 1 & 7 \\ 1/9 & 1/6 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2086, \quad CR = 0.0786$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.360693 \\ 0.416485 \\ 0.180655 \\ 0.042168 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8660 & 1.9966 & 8.5537 \\ 1.1547 & 1 & 2.3054 & 9.8768 \\ 0.5009 & 0.4338 & 1 & 4.2842 \\ 0.1169 & 0.1012 & 0.2334 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.361087 \\ 0.416228 \\ 0.180543 \\ 0.042142 \end{pmatrix} = 0.999384 \cdot \begin{pmatrix} 0.361310 \\ 0.416485 \\ 0.180655 \\ 0.042168 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8675 & 2 & 8.5683 \\ 1.1527 & 1 & 2.3054 & 9.8768 \\ 1/2 & 0.4338 & 1 & 4.2842 \\ 0.1167 & 0.1012 & 0.2334 & 1 \end{pmatrix},$$

Example 0.79.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 9 \\ 1 & 1 & 4 & 6 \\ 1/2 & 1/4 & 1 & 8 \\ 1/9 & 1/6 & 1/8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.356300 \\ 0.415706 \\ 0.187254 \\ 0.040740 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8571 & 1.9028 & 8.7457 \\ 1.1667 & 1 & 2.2200 & 10.2039 \\ 0.5256 & 0.4504 & 1 & 4.5963 \\ 0.1143 & 0.0980 & 0.2176 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.362902 \\ 0.411442 \\ 0.185334 \\ 0.040322 \end{pmatrix} = 0.989743 \cdot \begin{pmatrix} 0.366663 \\ 0.415706 \\ 0.187254 \\ 0.040740 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8820 & 1.9581 & 9 \\ 1.1338 & 1 & 2.2200 & 10.2038 \\ 0.5107 & 0.4504 & 1 & 4.5963 \\ 1/9 & 0.0980 & 0.2176 & 1 \end{pmatrix},$$

Example 0.80.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 9 \\ 1 & 1 & 1/2 & 5 \\ 1/2 & 2 & 1 & 7 \\ 1/9 & 1/5 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1669, \quad CR = 0.0629$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.398823 \\ 0.244183 \\ 0.313442 \\ \mathbf{0.043553} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.6333 & 1.2724 & \mathbf{9.1573} \\ 0.6123 & 1 & 0.7790 & \mathbf{5.6066} \\ 0.7859 & 1.2836 & 1 & \mathbf{7.1968} \\ \mathbf{0.1092} & \mathbf{0.1784} & \mathbf{0.1389} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.398520 \\ 0.243997 \\ 0.313203 \\ 0.044280 \end{pmatrix} = 0.999240 \cdot \begin{pmatrix} 0.398823 \\ 0.244183 \\ 0.313442 \\ \mathbf{0.044314} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.6333 & 1.2724 & \mathbf{9} \\ 0.6123 & 1 & 0.7790 & \mathbf{5.5103} \\ 0.7859 & 1.2836 & 1 & \mathbf{7.0732} \\ \mathbf{1/9} & \mathbf{0.1815} & \mathbf{0.1414} & 1 \end{pmatrix},$$

Example 0.81.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 9 \\ 1 & 1 & 1/2 & 6 \\ 1/2 & 2 & 1 & 7 \\ 1/9 & 1/6 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1658, \quad CR = 0.0625$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.394221 \\ 0.251994 \\ 0.312577 \\ \mathbf{0.041208} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.5644 & 1.2612 & \mathbf{9.5666} \\ 0.6392 & 1 & 0.8062 & \mathbf{6.1152} \\ 0.7929 & 1.2404 & 1 & \mathbf{7.5854} \\ \mathbf{0.1045} & \mathbf{0.1635} & \mathbf{0.1318} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.393910 \\ 0.251794 \\ 0.312330 \\ 0.041966 \end{pmatrix} = 0.999211 \cdot \begin{pmatrix} 0.394221 \\ 0.251994 \\ 0.312577 \\ \mathbf{0.041999} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.5644 & 1.2612 & \mathbf{9.3865} \\ 0.6392 & 1 & 0.8062 & \mathbf{6} \\ 0.7929 & 1.2404 & 1 & \mathbf{7.4425} \\ \mathbf{0.1065} & \mathbf{1/6} & \mathbf{0.1344} & 1 \end{pmatrix},$$

Example 0.82.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 9 \\ 1 & 1 & 1/2 & 6 \\ 1/2 & 2 & 1 & 8 \\ 1/9 & 1/6 & 1/8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.392386 \\ 0.249102 \\ 0.319037 \\ \mathbf{0.039475} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.5752 & 1.2299 & \mathbf{9.9401} \\ 0.6348 & 1 & 0.7808 & \mathbf{6.3103} \\ 0.8131 & 1.2807 & 1 & \mathbf{8.0819} \\ \mathbf{0.1006} & \mathbf{0.1585} & \mathbf{0.1237} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.392228 \\ 0.249001 \\ 0.318908 \\ 0.039863 \end{pmatrix} = 0.999596 \cdot \begin{pmatrix} 0.392386 \\ 0.249102 \\ 0.319037 \\ \mathbf{0.039880} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.5752 & 1.2299 & \mathbf{9.8393} \\ 0.6348 & 1 & 0.7808 & \mathbf{6.2463} \\ 0.8131 & 1.2807 & 1 & \mathbf{8} \\ \mathbf{0.1016} & \mathbf{0.1601} & \mathbf{1/8} & 1 \end{pmatrix},$$

Example 0.83.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/2 \\ 1 & 1 & 3 & 1/3 \\ 1/2 & 1/3 & 1 & 1/3 \\ 2 & 3 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.214267 \\ 0.221899 \\ 0.107390 \\ 0.456443 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9656 & 1.9952 & 0.4694 \\ 1.0356 & 1 & 2.0663 & 0.4861 \\ 0.5012 & 0.4840 & 1 & 0.2353 \\ 2.1303 & 2.0570 & 4.2503 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.214671 \\ 0.221786 \\ 0.107335 \\ 0.456208 \end{pmatrix} = 0.999489 \cdot \begin{pmatrix} 0.214781 \\ 0.221899 \\ 0.107390 \\ 0.456443 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9679 & 2 & 0.4706 \\ 1.0331 & 1 & 2.0663 & 0.4862 \\ 1/2 & 0.4840 & 1 & 0.2353 \\ 2.1251 & 2.0570 & 4.2503 & 1 \end{pmatrix},$$

Example 0.84.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/3 \\ 1 & 1 & 3 & 1/4 \\ 1/2 & 1/3 & 1 & 1/4 \\ 3 & 4 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.178887 \\ 0.190536 \\ 0.092629 \\ 0.537947 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9389 & 1.9312 & 0.3325 \\ 1.0651 & 1 & 2.0570 & 0.3542 \\ 0.5178 & 0.4862 & 1 & 0.1722 \\ 3.0072 & 2.8233 & 5.8075 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.179239 \\ 0.190455 \\ 0.092590 \\ 0.537716 \end{pmatrix} = 0.999574 \cdot \begin{pmatrix} 0.179315 \\ 0.190536 \\ 0.092629 \\ 0.537947 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9411 & 1.9358 & 1/3 \\ 1.0626 & 1 & 2.0570 & 0.3542 \\ 0.5166 & 0.4862 & 1 & 0.1722 \\ 3 & 2.8233 & 5.8075 & 1 \end{pmatrix},$$

Example 0.85.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/3 \\ 1 & 1 & 3 & 1/5 \\ 1/2 & 1/3 & 1 & 1/3 \\ 3 & 5 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.175415 \\ 0.182458 \\ 0.101815 \\ 0.540312 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9614 & 1.7229 & 0.3247 \\ 1.0401 & 1 & 1.7921 & 0.3377 \\ 0.5804 & 0.5580 & 1 & 0.1884 \\ 3.0802 & 2.9613 & 5.3068 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.179264 \\ 0.181606 \\ 0.101340 \\ 0.537790 \end{pmatrix} = 0.995329 \cdot \begin{pmatrix} 0.180105 \\ 0.182458 \\ 0.101815 \\ 0.540312 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9871 & 1.7689 & 1/3 \\ 1.0131 & 1 & 1.7920 & 0.3377 \\ 0.5653 & 0.5580 & 1 & 0.1884 \\ 3 & 2.9613 & 5.3068 & 1 \end{pmatrix},$$

Example 0.86.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/3 \\ 1 & 1 & 3 & 1/5 \\ 1/2 & 1/3 & 1 & 1/4 \\ 3 & 5 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1502, \quad CR = 0.0566$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.172824 \\ 0.176655 \\ 0.090561 \\ 0.559960 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9783 & 1.9084 & 0.3086 \\ 1.0222 & 1 & 1.9507 & 0.3155 \\ 0.5240 & 0.5126 & 1 & 0.1617 \\ 3.2401 & 3.1698 & 6.1832 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.175981 \\ 0.175981 \\ 0.090216 \\ 0.557823 \end{pmatrix} = 0.996182 \cdot \begin{pmatrix} 0.176655 \\ 0.176655 \\ 0.090561 \\ 0.559960 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.9507 & 0.3155 \\ 1 & 1 & 1.9507 & 0.3155 \\ 0.5126 & 0.5126 & 1 & 0.1617 \\ 3.1698 & 3.1698 & 6.1832 & 1 \end{pmatrix},$$

Example 0.87.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/3 \\ 1 & 1 & 6 & 1/2 \\ 1/2 & 1/6 & 1 & 1/8 \\ 3 & 2 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.177685 \\ 0.259145 \\ 0.062708 \\ \mathbf{0.500462} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6857 & 2.8335 & \mathbf{0.3550} \\ 1.4585 & 1 & 4.1326 & \mathbf{0.5178} \\ 0.3529 & 0.2420 & 1 & \mathbf{0.1253} \\ \mathbf{2.8166} & \mathbf{1.9312} & \mathbf{7.9809} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.177472 \\ 0.258834 \\ 0.062633 \\ 0.501061 \end{pmatrix} = 0.998801 \cdot \begin{pmatrix} 0.177685 \\ 0.259145 \\ 0.062708 \\ \mathbf{0.501662} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6857 & 2.8335 & \mathbf{0.3542} \\ 1.4584 & 1 & 4.1326 & \mathbf{0.5166} \\ 0.3529 & 0.2420 & 1 & \mathbf{1/8} \\ \mathbf{2.8233} & \mathbf{1.9358} & \mathbf{8} & 1 \end{pmatrix},$$

Example 0.88.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/3 \\ 1 & 1 & 6 & 1/2 \\ 1/2 & 1/6 & 1 & 1/9 \\ 3 & 2 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.175700 \\ 0.255095 \\ 0.060235 \\ 0.508970 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6888 & 2.9169 & 0.3452 \\ 1.4519 & 1 & 4.2350 & 0.5012 \\ 0.3428 & 0.2361 & 1 & 0.1183 \\ 2.8968 & 1.9952 & 8.4497 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.175486 \\ 0.254784 \\ 0.060162 \\ 0.509568 \end{pmatrix} = 0.998782 \cdot \begin{pmatrix} 0.175700 \\ 0.255095 \\ 0.060235 \\ 0.510189 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6888 & 2.9169 & 0.3444 \\ 1.4519 & 1 & 4.2350 & 1/2 \\ 0.3428 & 0.2361 & 1 & 0.1181 \\ 2.9038 & 2 & 8.4700 & 1 \end{pmatrix},$$

Example 0.89.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/3 \\ 1 & 1 & 7 & 1/2 \\ 1/2 & 1/7 & 1 & 1/9 \\ 3 & 2 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1342, \quad CR = 0.0506$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.174849 \\ 0.264986 \\ 0.057782 \\ \mathbf{0.502382} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6598 & 3.0260 & \mathbf{0.3480} \\ 1.5155 & 1 & 4.5860 & \mathbf{0.5275} \\ 0.3305 & 0.2181 & 1 & \mathbf{0.1150} \\ \mathbf{2.8732} & \mathbf{1.8959} & \mathbf{8.6944} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.171816 \\ 0.260388 \\ 0.056780 \\ 0.511016 \end{pmatrix} = 0.982652 \cdot \begin{pmatrix} 0.174849 \\ 0.264986 \\ 0.057782 \\ \mathbf{0.520038} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6598 & 3.0260 & \mathbf{0.3362} \\ 1.5155 & 1 & 4.5859 & \mathbf{0.5095} \\ 0.3305 & 0.2181 & 1 & \mathbf{1/9} \\ \mathbf{2.9742} & \mathbf{1.9625} & \mathbf{9} & 1 \end{pmatrix},$$

Example 0.90.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/3 \\ 1 & 1 & 8 & 1/2 \\ 1/2 & 1/8 & 1 & 1/9 \\ 3 & 2 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.173978 \\ 0.274049 \\ 0.055705 \\ \mathbf{0.496268} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6348 & 3.1232 & \mathbf{0.3506} \\ 1.5752 & 1 & 4.9196 & \mathbf{0.5522} \\ 0.3202 & 0.2033 & 1 & \mathbf{0.1122} \\ \mathbf{2.8525} & \mathbf{1.8109} & \mathbf{8.9088} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.173098 \\ 0.272665 \\ 0.055424 \\ 0.498814 \end{pmatrix} = 0.994944 \cdot \begin{pmatrix} 0.173978 \\ 0.274049 \\ 0.055705 \\ \mathbf{0.501349} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6348 & 3.1232 & \mathbf{0.3470} \\ 1.5752 & 1 & 4.9196 & \mathbf{0.5466} \\ 0.3202 & 0.2033 & 1 & \mathbf{1/9} \\ \mathbf{2.8817} & \mathbf{1.8294} & \mathbf{9} & 1 \end{pmatrix},$$

Example 0.91.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/3 \\ 1 & 1 & 1/2 & 1/5 \\ 1/2 & 2 & 1 & 1/4 \\ 3 & 5 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.187570 \\ 0.117109 \\ 0.146927 \\ 0.548394 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.6017 & 1.2766 & 0.3420 \\ 0.6243 & 1 & 0.7971 & 0.2135 \\ 0.7833 & 1.2546 & 1 & 0.2679 \\ 2.9237 & 4.6828 & 3.7324 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.184923 \\ 0.115456 \\ 0.144853 \\ 0.554768 \end{pmatrix} = 0.985886 \cdot \begin{pmatrix} 0.187570 \\ 0.117109 \\ 0.146927 \\ 0.562710 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.6017 & 1.2766 & 1/3 \\ 0.6243 & 1 & 0.7971 & 0.2081 \\ 0.7833 & 1.2546 & 1 & 0.2611 \\ 3 & 4.8050 & 3.8299 & 1 \end{pmatrix},$$

Example 0.92.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/4 \\ 1 & 1 & 3 & 1/6 \\ 1/2 & 1/3 & 1 & 1/5 \\ 4 & 6 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1406, \quad CR = 0.0530$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.149309 \\ 0.156134 \\ 0.079511 \\ 0.615046 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9563 & 1.8779 & 0.2428 \\ 1.0457 & 1 & 1.9637 & 0.2539 \\ 0.5325 & 0.5092 & 1 & 0.1293 \\ 4.1193 & 3.9392 & 7.7354 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.153080 \\ 0.155442 \\ 0.079158 \\ 0.612320 \end{pmatrix} = 0.995566 \cdot \begin{pmatrix} 0.153762 \\ 0.156134 \\ 0.079511 \\ 0.615046 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9848 & 1.9338 & 1/4 \\ 1.0154 & 1 & 1.9637 & 0.2539 \\ 0.5171 & 0.5092 & 1 & 0.1293 \\ 4 & 3.9392 & 7.7354 & 1 \end{pmatrix},$$

Example 0.93.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/4 \\ 1 & 1 & 3 & 1/6 \\ 1/2 & 1/3 & 1 & 1/6 \\ 4 & 6 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.147117 \\ 0.152357 \\ 0.073735 \\ 0.626791 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9656 & 1.9952 & 0.2347 \\ 1.0356 & 1 & 2.0663 & 0.2431 \\ 0.5012 & 0.4840 & 1 & 0.1176 \\ 4.2605 & 4.1140 & 8.5006 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.147418 \\ 0.152304 \\ 0.073709 \\ 0.626569 \end{pmatrix} = 0.999649 \cdot \begin{pmatrix} 0.147470 \\ 0.152357 \\ 0.073735 \\ 0.626791 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9679 & 2 & 0.2353 \\ 1.0331 & 1 & 2.0663 & 0.2431 \\ 1/2 & 0.4840 & 1 & 0.1176 \\ 4.2503 & 4.1139 & 8.5006 & 1 \end{pmatrix},$$

Example 0.94.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/4 \\ 1 & 1 & 3 & 1/7 \\ 1/2 & 1/3 & 1 & 1/4 \\ 4 & 7 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2421, \quad CR = 0.0913$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.147174 \\ 0.151850 \\ 0.085750 \\ 0.615227 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9692 & 1.7163 & 0.2392 \\ 1.0318 & 1 & 1.7709 & 0.2468 \\ 0.5826 & 0.5647 & 1 & 0.1394 \\ 4.1803 & 4.0516 & 7.1747 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.151143 \\ 0.151143 \\ 0.085351 \\ 0.612364 \end{pmatrix} = 0.995346 \cdot \begin{pmatrix} 0.151850 \\ 0.151850 \\ 0.085750 \\ 0.615227 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.7708 & 0.2468 \\ 1 & 1 & 1.7708 & 0.2468 \\ 0.5647 & 0.5647 & 1 & 0.1394 \\ 4.0516 & 4.0516 & 7.1747 & 1 \end{pmatrix},$$

Example 0.95.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/4 \\ 1 & 1 & 3 & 1/7 \\ 1/2 & 1/3 & 1 & 1/5 \\ 4 & 7 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1782, \quad CR = 0.0672$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.144946 \\ 0.147440 \\ 0.077895 \\ 0.629719 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9831 & 1.8608 & 0.2302 \\ 1.0172 & 1 & 1.8928 & 0.2341 \\ 0.5374 & 0.5283 & 1 & 0.1237 \\ 4.3445 & 4.2710 & 8.0842 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.147074 \\ 0.147074 \\ 0.077701 \\ 0.628151 \end{pmatrix} = 0.997515 \cdot \begin{pmatrix} 0.147440 \\ 0.147440 \\ 0.077895 \\ 0.629719 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.8928 & 0.2341 \\ 1 & 1 & 1.8928 & 0.2341 \\ 0.5283 & 0.5283 & 1 & 0.1237 \\ 4.2710 & 4.2710 & 8.0842 & 1 \end{pmatrix},$$

Example 0.96.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/4 \\ 1 & 1 & 3 & 1/7 \\ 1/2 & 1/3 & 1 & 1/6 \\ 4 & 7 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1365, \quad CR = 0.0515$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.142940 \\ 0.143772 \\ 0.072135 \\ 0.641153 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9942 & 1.9815 & 0.2229 \\ 1.0058 & 1 & 1.9931 & 0.2242 \\ 0.5047 & 0.5017 & 1 & 0.1125 \\ 4.4855 & 4.4595 & 8.8882 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.143652 \\ 0.143652 \\ 0.072076 \\ 0.640620 \end{pmatrix} = 0.999167 \cdot \begin{pmatrix} 0.143772 \\ 0.143772 \\ 0.072135 \\ 0.641153 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.9931 & 0.2242 \\ 1 & 1 & 1.9931 & 0.2242 \\ 0.5017 & 0.5017 & 1 & 0.1125 \\ 4.4595 & 4.4595 & 8.8882 & 1 \end{pmatrix},$$

Example 0.97.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/4 \\ 1 & 1 & 4 & 1/6 \\ 1/2 & 1/4 & 1 & 1/5 \\ 4 & 6 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2162, \quad CR = 0.0815$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.145942 \\ 0.168881 \\ 0.073832 \\ 0.611344 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8642 & 1.9767 & 0.2387 \\ 1.1572 & 1 & 2.2874 & 0.2762 \\ 0.5059 & 0.4372 & 1 & 0.1208 \\ 4.1890 & 3.6200 & 8.2802 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.147410 \\ 0.168591 \\ 0.073705 \\ 0.610294 \end{pmatrix} = 0.998282 \cdot \begin{pmatrix} 0.147664 \\ 0.168881 \\ 0.073832 \\ 0.611344 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8744 & 2 & 0.2415 \\ 1.1437 & 1 & 2.2874 & 0.2762 \\ 1/2 & 0.4372 & 1 & 0.1208 \\ 4.1401 & 3.6200 & 8.2802 & 1 \end{pmatrix},$$

Example 0.98.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/4 \\ 1 & 1 & 4 & 1/7 \\ 1/2 & 1/4 & 1 & 1/5 \\ 4 & 7 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2610, \quad CR = 0.0984$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.141345 \\ 0.159541 \\ 0.072344 \\ 0.626770 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8859 & 1.9538 & 0.2255 \\ 1.1287 & 1 & 2.2053 & 0.2545 \\ 0.5118 & 0.4534 & 1 & 0.1154 \\ 4.4343 & 3.9286 & 8.6638 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.144206 \\ 0.159009 \\ 0.072103 \\ 0.624682 \end{pmatrix} = 0.996663 \cdot \begin{pmatrix} 0.144689 \\ 0.159541 \\ 0.072344 \\ 0.626770 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9069 & 2 & 0.2308 \\ 1.1027 & 1 & 2.2053 & 0.2545 \\ 1/2 & 0.4535 & 1 & 0.1154 \\ 4.3319 & 3.9286 & 8.6638 & 1 \end{pmatrix},$$

Example 0.99.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/4 \\ 1 & 1 & 1/2 & 1/6 \\ 1/2 & 2 & 1 & 1/5 \\ 4 & 6 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.162132 \\ 0.103491 \\ 0.129229 \\ \mathbf{0.605148} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.5666 & 1.2546 & \mathbf{0.2679} \\ 0.6383 & 1 & 0.8008 & \mathbf{0.1710} \\ 0.7971 & 1.2487 & 1 & \mathbf{0.2135} \\ \mathbf{3.7324} & \mathbf{5.8474} & \mathbf{4.6828} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.159611 \\ 0.101882 \\ 0.127219 \\ 0.611288 \end{pmatrix} = 0.984449 \cdot \begin{pmatrix} 0.162132 \\ 0.103491 \\ 0.129229 \\ \mathbf{0.620944} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.5666 & 1.2546 & \mathbf{0.2611} \\ 0.6383 & 1 & 0.8008 & \mathbf{1/6} \\ 0.7971 & 1.2487 & 1 & \mathbf{0.2081} \\ \mathbf{3.8299} & \mathbf{6} & \mathbf{4.8050} & 1 \end{pmatrix},$$

Example 0.100.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/4 \\ 1 & 1 & 1/2 & 1/7 \\ 1/2 & 2 & 1 & 1/5 \\ 4 & 7 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1665, \quad CR = 0.0628$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.159230 \\ 0.098007 \\ 0.126001 \\ \mathbf{0.616762} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.6247 & 1.2637 & \mathbf{0.2582} \\ 0.6155 & 1 & 0.7778 & \mathbf{0.1589} \\ 0.7913 & 1.2856 & 1 & \mathbf{0.2043} \\ \mathbf{3.8734} & \mathbf{6.2930} & \mathbf{4.8949} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.157149 \\ 0.096726 \\ 0.124354 \\ 0.621771 \end{pmatrix} = 0.986932 \cdot \begin{pmatrix} 0.159230 \\ 0.098007 \\ 0.126001 \\ \mathbf{0.630004} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.6247 & 1.2637 & \mathbf{0.2527} \\ 0.6155 & 1 & 0.7778 & \mathbf{0.1556} \\ 0.7913 & 1.2856 & 1 & \mathbf{1/5} \\ \mathbf{3.9566} & \mathbf{6.4282} & \mathbf{5} & 1 \end{pmatrix},$$

Example 0.101.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/5 \\ 1 & 1 & 3 & 1/7 \\ 1/2 & 1/3 & 1 & 1/7 \\ 5 & 7 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1027, \quad CR = 0.0387$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.129810 \\ 0.136682 \\ 0.066322 \\ 0.667185 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9497 & 1.9573 & 0.1946 \\ 1.0529 & 1 & 2.0609 & 0.2049 \\ 0.5109 & 0.4852 & 1 & 0.0994 \\ 5.1397 & 4.8813 & 10.0598 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.132269 \\ 0.136297 \\ 0.066135 \\ 0.665300 \end{pmatrix} = 0.997180 \cdot \begin{pmatrix} 0.132643 \\ 0.136682 \\ 0.066322 \\ 0.667185 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9704 & 2 & 0.1988 \\ 1.0305 & 1 & 2.0609 & 0.2049 \\ 1/2 & 0.4852 & 1 & 0.0994 \\ 5.0299 & 4.8813 & 10.0598 & 1 \end{pmatrix},$$

Example 0.102.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/5 \\ 1 & 1 & 3 & 1/8 \\ 1/2 & 1/3 & 1 & 1/5 \\ 5 & 8 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2162, \quad CR = 0.0815$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.130126 \\ 0.136274 \\ 0.075290 \\ 0.658310 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9549 & 1.7283 & 0.1977 \\ 1.0472 & 1 & 1.8100 & 0.2070 \\ 0.5786 & 0.5525 & 1 & 0.1144 \\ 5.0590 & 4.8308 & 8.7436 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.131460 \\ 0.136065 \\ 0.075175 \\ 0.657301 \end{pmatrix} = 0.998468 \cdot \begin{pmatrix} 0.131662 \\ 0.136274 \\ 0.075290 \\ 0.658310 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9662 & 1.7487 & 1/5 \\ 1.0350 & 1 & 1.8100 & 0.2070 \\ 0.5718 & 0.5525 & 1 & 0.1144 \\ 5 & 4.8308 & 8.7436 & 1 \end{pmatrix},$$

Example 0.103.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/5 \\ 1 & 1 & 3 & 1/8 \\ 1/2 & 1/3 & 1 & 1/6 \\ 5 & 8 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.128143 \\ 0.132765 \\ 0.069476 \\ 0.669616 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9652 & 1.8444 & 0.1914 \\ 1.0361 & 1 & 1.9109 & 0.1983 \\ 0.5422 & 0.5233 & 1 & 0.1038 \\ 5.2255 & 5.0436 & 9.6381 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.132154 \\ 0.132154 \\ 0.069156 \\ 0.666535 \end{pmatrix} = 0.995398 \cdot \begin{pmatrix} 0.132765 \\ 0.132765 \\ 0.069476 \\ 0.669616 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.9109 & 0.1983 \\ 1 & 1 & 1.9109 & 0.1983 \\ 0.5233 & 0.5233 & 1 & 0.1038 \\ 5.0436 & 5.0436 & 9.6381 & 1 \end{pmatrix},$$

Example 0.104.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/5 \\ 1 & 1 & 3 & 1/8 \\ 1/2 & 1/3 & 1 & 1/7 \\ 5 & 8 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1301, \quad CR = 0.0490$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.126364 \\ 0.129772 \\ 0.064990 \\ 0.678875 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9737 & 1.9444 & 0.1861 \\ 1.0270 & 1 & 1.9968 & 0.1912 \\ 0.5143 & 0.5008 & 1 & 0.0957 \\ 5.3724 & 5.2313 & 10.4459 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.129331 \\ 0.129331 \\ 0.064769 \\ 0.676569 \end{pmatrix} = 0.996603 \cdot \begin{pmatrix} 0.129772 \\ 0.129772 \\ 0.064990 \\ 0.678875 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.9968 & 0.1912 \\ 1 & 1 & 1.9968 & 0.1912 \\ 0.5008 & 0.5008 & 1 & 0.0957 \\ 5.2313 & 5.2313 & 10.4459 & 1 \end{pmatrix},$$

Example 0.105.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/5 \\ 1 & 1 & 3 & 1/9 \\ 1/2 & 1/3 & 1 & 1/5 \\ 5 & 9 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2508, \quad CR = 0.0946$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.126736 \\ 0.130154 \\ 0.074006 \\ 0.669105 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9737 & 1.7125 & 0.1894 \\ 1.0270 & 1 & 1.7587 & 0.1945 \\ 0.5839 & 0.5686 & 1 & 0.1106 \\ 5.2795 & 5.1409 & 9.0413 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.129710 \\ 0.129710 \\ 0.073754 \\ 0.666826 \end{pmatrix} = 0.996591 \cdot \begin{pmatrix} 0.130154 \\ 0.130154 \\ 0.074006 \\ 0.669105 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.7587 & 0.1945 \\ 1 & 1 & 1.7587 & 0.1945 \\ 0.5686 & 0.5686 & 1 & 0.1106 \\ 5.1409 & 5.1409 & 9.0413 & 1 \end{pmatrix},$$

Example 0.106.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/5 \\ 1 & 1 & 3 & 1/9 \\ 1/2 & 1/3 & 1 & 1/6 \\ 5 & 9 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1966, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.124881 \\ 0.126728 \\ 0.068213 \\ 0.680179 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9854 & 1.8308 & 0.1836 \\ 1.0148 & 1 & 1.8578 & 0.1863 \\ 0.5462 & 0.5383 & 1 & 0.1003 \\ 5.4466 & 5.3672 & 9.9714 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.126494 \\ 0.126494 \\ 0.068087 \\ 0.678925 \end{pmatrix} = 0.998156 \cdot \begin{pmatrix} 0.126728 \\ 0.126728 \\ 0.068213 \\ 0.680179 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.8578 & 0.1863 \\ 1 & 1 & 1.8578 & 0.1863 \\ 0.5383 & 0.5383 & 1 & 0.1003 \\ 5.3672 & 5.3672 & 9.9714 & 1 \end{pmatrix},$$

Example 0.107.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/5 \\ 1 & 1 & 3 & 1/9 \\ 1/2 & 1/3 & 1 & 1/7 \\ 5 & 9 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1583, \quad CR = 0.0597$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.123220 \\ 0.123818 \\ 0.063751 \\ 0.689212 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9952 & 1.9328 & 0.1788 \\ 1.0049 & 1 & 1.9422 & 0.1797 \\ 0.5174 & 0.5149 & 1 & 0.0925 \\ 5.5934 & 5.5664 & 10.8111 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.123744 \\ 0.123744 \\ 0.063712 \\ 0.688800 \end{pmatrix} = 0.999406 \cdot \begin{pmatrix} 0.123818 \\ 0.123818 \\ 0.063751 \\ 0.689212 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 1.9422 & 0.1797 \\ 1 & 1 & 1.9422 & 0.1797 \\ 0.5149 & 0.5149 & 1 & 0.0925 \\ 5.5663 & 5.5663 & 10.8111 & 1 \end{pmatrix},$$

Example 0.108.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/5 \\ 1 & 1 & 4 & 1/7 \\ 1/2 & 1/4 & 1 & 1/6 \\ 5 & 7 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2095, \quad CR = 0.0790$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.128919 \\ 0.151318 \\ 0.065829 \\ 0.653934 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8520 & 1.9584 & 0.1971 \\ 1.1738 & 1 & 2.2987 & 0.2314 \\ 0.5106 & 0.4350 & 1 & 0.1007 \\ 5.0724 & 4.3216 & 9.9338 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.130543 \\ 0.151036 \\ 0.065706 \\ 0.652715 \end{pmatrix} = 0.998134 \cdot \begin{pmatrix} 0.130787 \\ 0.151318 \\ 0.065829 \\ 0.653934 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8643 & 1.9868 & 1/5 \\ 1.1570 & 1 & 2.2986 & 0.2314 \\ 0.5033 & 0.4350 & 1 & 0.1007 \\ 5 & 4.3216 & 9.9338 & 1 \end{pmatrix},$$

Example 0.109.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/5 \\ 1 & 1 & 4 & 1/8 \\ 1/2 & 1/4 & 1 & 1/6 \\ 5 & 8 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.125146 \\ 0.143788 \\ 0.064572 \\ 0.666494 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8704 & 1.9381 & 0.1878 \\ 1.1490 & 1 & 2.2268 & 0.2157 \\ 0.5160 & 0.4491 & 1 & 0.0969 \\ 5.3257 & 4.6353 & 10.3218 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.128629 \\ 0.143216 \\ 0.064315 \\ 0.663840 \end{pmatrix} = 0.996022 \cdot \begin{pmatrix} 0.129143 \\ 0.143788 \\ 0.064572 \\ 0.666494 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8981 & 2 & 0.1938 \\ 1.1134 & 1 & 2.2268 & 0.2157 \\ 1/2 & 0.4491 & 1 & 0.0969 \\ 5.1609 & 4.6352 & 10.3218 & 1 \end{pmatrix},$$

Example 0.110.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/5 \\ 1 & 1 & 1/2 & 1/8 \\ 1/2 & 2 & 1 & 1/6 \\ 5 & 8 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.140629 \\ 0.088218 \\ 0.112621 \\ \mathbf{0.658533} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.5941 & 1.2487 & \mathbf{0.2135} \\ 0.6273 & 1 & 0.7833 & \mathbf{0.1340} \\ 0.8008 & 1.2766 & 1 & \mathbf{0.1710} \\ \mathbf{4.6828} & \mathbf{7.4649} & \mathbf{5.8473} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.138252 \\ 0.086727 \\ 0.110717 \\ 0.664304 \end{pmatrix} = 0.983099 \cdot \begin{pmatrix} 0.140629 \\ 0.088218 \\ 0.112621 \\ \mathbf{0.675725} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.5941 & 1.2487 & \mathbf{0.2081} \\ 0.6273 & 1 & 0.7833 & \mathbf{0.1306} \\ 0.8008 & 1.2766 & 1 & \mathbf{1/6} \\ \mathbf{4.8050} & \mathbf{7.6597} & \mathbf{6} & 1 \end{pmatrix},$$

Example 0.111.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/5 \\ 1 & 1 & 1/2 & 1/8 \\ 1/2 & 2 & 1 & 1/7 \\ 5 & 8 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1665, \quad CR = 0.0628$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.136900 \\ 0.086502 \\ 0.106485 \\ \mathbf{0.670113} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.5826 & 1.2856 & \mathbf{0.2043} \\ 0.6319 & 1 & 0.8123 & \mathbf{0.1291} \\ 0.7778 & 1.2310 & 1 & \mathbf{0.1589} \\ \mathbf{4.8949} & \mathbf{7.7468} & \mathbf{6.2930} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.134958 \\ 0.085275 \\ 0.104974 \\ 0.674793 \end{pmatrix} = 0.985814 \cdot \begin{pmatrix} 0.136900 \\ 0.086502 \\ 0.106485 \\ \mathbf{0.684504} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.5826 & 1.2856 & \mathbf{1/5} \\ 0.6319 & 1 & 0.8123 & \mathbf{0.1264} \\ 0.7778 & 1.2310 & 1 & \mathbf{0.1556} \\ \mathbf{5} & \mathbf{7.9132} & \mathbf{6.4282} & 1 \end{pmatrix},$$

Example 0.112.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/6 \\ 1 & 1 & 3 & 1/2 \\ 1/2 & 1/3 & 1 & 1/8 \\ 6 & 2 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.141872 \\ 0.205980 \\ \mathbf{0.068496} \\ 0.583652 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6888 & \mathbf{2.0712} & 0.2431 \\ 1.4519 & 1 & \mathbf{3.0072} & 0.3529 \\ \mathbf{0.4828} & \mathbf{0.3325} & 1 & \mathbf{0.1174} \\ 4.1140 & 2.8335 & \mathbf{8.5210} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.141848 \\ 0.205946 \\ 0.068649 \\ 0.583557 \end{pmatrix} = 0.999835 \cdot \begin{pmatrix} 0.141872 \\ 0.205980 \\ \mathbf{0.068660} \\ 0.583652 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6888 & \mathbf{2.0663} & 0.2431 \\ 1.4519 & 1 & \mathbf{3} & 0.3529 \\ \mathbf{0.4840} & \mathbf{1/3} & 1 & \mathbf{0.1176} \\ 4.1140 & 2.8335 & \mathbf{8.5006} & 1 \end{pmatrix},$$

Example 0.113.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/6 \\ 1 & 1 & 3 & 1/2 \\ 1/2 & 1/3 & 1 & 1/9 \\ 6 & 2 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.139609 \\ 0.203613 \\ \mathbf{0.065536} \\ 0.591242 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6857 & \mathbf{2.1302} & 0.2361 \\ 1.4585 & 1 & \mathbf{3.1069} & 0.3444 \\ \mathbf{0.4694} & \mathbf{0.3219} & 1 & \mathbf{0.1108} \\ 4.2350 & 2.9038 & \mathbf{9.0216} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.139587 \\ 0.203581 \\ 0.065683 \\ 0.591149 \end{pmatrix} = 0.999843 \cdot \begin{pmatrix} 0.139609 \\ 0.203613 \\ \mathbf{0.065693} \\ 0.591242 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6857 & \mathbf{2.1252} & 0.2361 \\ 1.4585 & 1 & \mathbf{3.0994} & 0.3444 \\ \mathbf{0.4706} & \mathbf{0.3226} & 1 & \mathbf{1/9} \\ 4.2350 & 2.9038 & \mathbf{9} & 1 \end{pmatrix},$$

Example 0.114.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/6 \\ 1 & 1 & 3 & 1/8 \\ 1/2 & 1/3 & 1 & 1/8 \\ 6 & 8 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.116315 \\ 0.123890 \\ 0.060229 \\ 0.699565 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9389 & 1.9312 & 0.1663 \\ 1.0651 & 1 & 2.0570 & 0.1771 \\ 0.5178 & 0.4862 & 1 & 0.0861 \\ 6.0144 & 5.6467 & 11.6150 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.116562 \\ 0.123856 \\ 0.060212 \\ 0.699370 \end{pmatrix} = 0.999726 \cdot \begin{pmatrix} 0.116594 \\ 0.123890 \\ 0.060229 \\ 0.699565 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9411 & 1.9358 & 1/6 \\ 1.0626 & 1 & 2.0570 & 0.1771 \\ 0.5166 & 0.4861 & 1 & 0.0861 \\ 6 & 5.6466 & 11.6150 & 1 \end{pmatrix},$$

Example 0.115.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/6 \\ 1 & 1 & 3 & 1/9 \\ 1/2 & 1/3 & 1 & 1/7 \\ 6 & 9 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1571, \quad CR = 0.0593$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.114988 \\ 0.120695 \\ 0.062701 \\ 0.701615 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9527 & 1.8339 & 0.1639 \\ 1.0496 & 1 & 1.9249 & 0.1720 \\ 0.5453 & 0.5195 & 1 & 0.0894 \\ 6.1016 & 5.8131 & 11.1898 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.116709 \\ 0.120460 \\ 0.062579 \\ 0.700252 \end{pmatrix} = 0.998051 \cdot \begin{pmatrix} 0.116937 \\ 0.120695 \\ 0.062701 \\ 0.701615 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9689 & 1.8650 & 1/6 \\ 1.0321 & 1 & 1.9249 & 0.1720 \\ 0.5362 & 0.5195 & 1 & 0.0894 \\ 6 & 5.8131 & 11.1898 & 1 \end{pmatrix},$$

Example 0.116.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/6 \\ 1 & 1 & 3 & 1/9 \\ 1/2 & 1/3 & 1 & 1/8 \\ 6 & 9 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1263, \quad CR = 0.0476$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.113434 \\ 0.118209 \\ 0.059104 \\ 0.709253 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9596 & 1.9192 & 0.1599 \\ 1.0421 & 1 & 2.0000 & 0.1667 \\ 0.5210 & 0.5000 & 1 & 0.0833 \\ 6.2526 & 6.0000 & 12.0000 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.117647 \\ 0.117647 \\ 0.058824 \\ 0.705882 \end{pmatrix} = 0.995249 \cdot \begin{pmatrix} 0.118209 \\ 0.118209 \\ 0.059104 \\ 0.709253 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0000 & 2.0000 & 1/6 \\ 1.0000 & 1 & 2.0000 & 0.1667 \\ 0.5000 & 0.5000 & 1 & 0.0833 \\ 6 & 6.0000 & 12.0000 & 1 \end{pmatrix},$$

Example 0.117.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/6 \\ 1 & 1 & 3 & 1/9 \\ 1/2 & 1/3 & 1 & 1/9 \\ 6 & 9 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.112013 \\ 0.116003 \\ 0.056141 \\ 0.715844 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9656 & 1.9952 & 0.1565 \\ 1.0356 & 1 & 2.0663 & 0.1621 \\ 0.5012 & 0.4840 & 1 & 0.0784 \\ 6.3907 & 6.1709 & 12.7509 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.112251 \\ 0.115972 \\ 0.056125 \\ 0.715652 \end{pmatrix} = 0.999736 \cdot \begin{pmatrix} 0.112281 \\ 0.116003 \\ 0.056141 \\ 0.715844 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9679 & 2 & 0.1569 \\ 1.0331 & 1 & 2.0663 & 0.1621 \\ 1/2 & 0.4840 & 1 & 0.0784 \\ 6.3755 & 6.1709 & 12.7509 & 1 \end{pmatrix},$$

Example 0.118.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/6 \\ 1 & 1 & 4 & 1/9 \\ 1/2 & 1/4 & 1 & 1/7 \\ 6 & 9 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2359, \quad CR = 0.0890$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.112438 \\ 0.130810 \\ 0.058313 \\ 0.698439 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8595 & 1.9282 & 0.1610 \\ 1.1634 & 1 & 2.2432 & 0.1873 \\ 0.5186 & 0.4458 & 1 & 0.0835 \\ 6.2118 & 5.3393 & 11.9774 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.115946 \\ 0.130293 \\ 0.058083 \\ 0.695678 \end{pmatrix} = 0.996047 \cdot \begin{pmatrix} 0.116406 \\ 0.130810 \\ 0.058313 \\ 0.698439 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8899 & 1.9962 & 1/6 \\ 1.1237 & 1 & 2.2432 & 0.1873 \\ 0.5009 & 0.4458 & 1 & 0.0835 \\ 6 & 5.3393 & 11.9774 & 1 \end{pmatrix},$$

Example 0.119.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/6 \\ 1 & 1 & 1/2 & 1/9 \\ 1/2 & 2 & 1 & 1/7 \\ 6 & 9 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1658, \quad CR = 0.0625$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.126065 \\ 0.080184 \\ 0.101792 \\ \mathbf{0.691959} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.5722 & 1.2385 & \mathbf{0.1822} \\ 0.6361 & 1 & 0.7877 & \mathbf{0.1159} \\ 0.8075 & 1.2695 & 1 & \mathbf{0.1471} \\ \mathbf{5.4889} & \mathbf{8.6296} & \mathbf{6.7978} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.123522 \\ 0.078567 \\ 0.099739 \\ 0.698172 \end{pmatrix} = 0.979828 \cdot \begin{pmatrix} 0.126065 \\ 0.080184 \\ 0.101792 \\ \mathbf{0.712546} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.5722 & 1.2385 & \mathbf{0.1769} \\ 0.6361 & 1 & 0.7877 & \mathbf{0.1125} \\ 0.8075 & 1.2695 & 1 & \mathbf{1/7} \\ \mathbf{5.6522} & \mathbf{8.8864} & \mathbf{7} & 1 \end{pmatrix},$$

Example 0.120.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/6 \\ 1 & 1 & 1/2 & 1/9 \\ 1/2 & 2 & 1 & 1/8 \\ 6 & 9 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.122957 \\ 0.078738 \\ 0.096841 \\ \mathbf{0.701463} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.5616 & 1.2697 & \mathbf{0.1753} \\ 0.6404 & 1 & 0.8131 & \mathbf{0.1122} \\ 0.7876 & 1.2299 & 1 & \mathbf{0.1381} \\ \mathbf{5.7050} & \mathbf{8.9088} & \mathbf{7.2434} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.122080 \\ 0.078177 \\ 0.096151 \\ 0.703592 \end{pmatrix} = 0.992868 \cdot \begin{pmatrix} 0.122957 \\ 0.078738 \\ 0.096841 \\ \mathbf{0.708646} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.5616 & 1.2697 & \mathbf{0.1735} \\ 0.6404 & 1 & 0.8131 & \mathbf{1/9} \\ 0.7876 & 1.2299 & 1 & \mathbf{0.1367} \\ \mathbf{5.7634} & \mathbf{9} & \mathbf{7.3176} & 1 \end{pmatrix},$$

Example 0.121.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/7 \\ 1 & 1 & 3 & 1/2 \\ 1/2 & 1/3 & 1 & 1/8 \\ 7 & 2 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1365, \quad CR = 0.0515$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.134015 \\ 0.201721 \\ \mathbf{0.066620} \\ 0.597644 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6644 & \mathbf{2.0116} & 0.2242 \\ 1.5052 & 1 & \mathbf{3.0279} & 0.3375 \\ \mathbf{0.4971} & \mathbf{0.3303} & 1 & \mathbf{0.1115} \\ 4.4595 & 2.9627 & \mathbf{8.9709} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.133963 \\ 0.201643 \\ 0.066982 \\ 0.597412 \end{pmatrix} = 0.999610 \cdot \begin{pmatrix} 0.134015 \\ 0.201721 \\ \mathbf{0.067008} \\ 0.597644 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6644 & \mathbf{2} & 0.2242 \\ 1.5052 & 1 & \mathbf{3.0104} & 0.3375 \\ \mathbf{1/2} & \mathbf{0.3322} & 1 & \mathbf{0.1121} \\ 4.4595 & 2.9627 & \mathbf{8.9190} & 1 \end{pmatrix},$$

Example 0.122.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/7 \\ 1 & 1 & 3 & 1/2 \\ 1/2 & 1/3 & 1 & 1/9 \\ 7 & 2 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1342, \quad CR = 0.0506$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.131892 \\ 0.199553 \\ \mathbf{0.063707} \\ 0.604848 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6609 & \mathbf{2.0703} & 0.2181 \\ 1.5130 & 1 & \mathbf{3.1324} & 0.3299 \\ \mathbf{0.4830} & \mathbf{0.3192} & 1 & \mathbf{0.1053} \\ 4.5860 & 3.0310 & \mathbf{9.4943} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.131597 \\ 0.199107 \\ 0.065799 \\ 0.603497 \end{pmatrix} = 0.997767 \cdot \begin{pmatrix} 0.131892 \\ 0.199553 \\ \mathbf{0.065946} \\ 0.604848 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6609 & \mathbf{2} & 0.2181 \\ 1.5130 & 1 & \mathbf{3.0260} & 0.3299 \\ \mathbf{1/2} & \mathbf{0.3305} & 1 & \mathbf{0.1090} \\ 4.5859 & 3.0310 & \mathbf{9.1719} & 1 \end{pmatrix},$$

Example 0.123.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 2 & 1/8 \\ 1 & 1 & 3 & 1/2 \\ 1/2 & 1/3 & 1 & 1/9 \\ 8 & 2 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.125374 \\ 0.195782 \\ \mathbf{0.062051} \\ 0.616793 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6404 & \mathbf{2.0205} & 0.2033 \\ 1.5616 & 1 & \mathbf{3.1552} & 0.3174 \\ \mathbf{0.4949} & \mathbf{0.3169} & 1 & \mathbf{0.1006} \\ 4.9196 & 3.1504 & \mathbf{9.9400} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.125294 \\ 0.195658 \\ 0.062647 \\ 0.616401 \end{pmatrix} = 0.999365 \cdot \begin{pmatrix} 0.125374 \\ 0.195782 \\ \mathbf{0.062687} \\ 0.616793 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6404 & \mathbf{2} & 0.2033 \\ 1.5616 & 1 & \mathbf{3.1232} & 0.3174 \\ \mathbf{1/2} & \mathbf{0.3202} & 1 & \mathbf{0.1016} \\ 4.9196 & 3.1504 & \mathbf{9.8393} & 1 \end{pmatrix},$$

Example 0.124.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 4 \\ 1 & 1 & 5 & 3 \\ 1/3 & 1/5 & 1 & 2 \\ 1/4 & 1/3 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1252, \quad CR = 0.0472$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.371310 \\ 0.409562 \\ 0.125641 \\ 0.093487 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9066 & 2.9553 & 3.9718 \\ 1.1030 & 1 & 3.2598 & 4.3810 \\ 0.3384 & 0.3068 & 1 & 1.3439 \\ 0.2518 & 0.2283 & 0.7441 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.372964 \\ 0.408484 \\ 0.125310 \\ 0.093241 \end{pmatrix} = 0.997368 \cdot \begin{pmatrix} 0.373949 \\ 0.409562 \\ 0.125641 \\ 0.093487 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9130 & 2.9763 & 4 \\ 1.0952 & 1 & 3.2598 & 4.3809 \\ 0.3360 & 0.3068 & 1 & 1.3439 \\ 1/4 & 0.2283 & 0.7441 & 1 \end{pmatrix},$$

Example 0.125.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 4 \\ 1 & 1 & 7 & 5 \\ 1/3 & 1/7 & 1 & 1 \\ 1/4 & 1/5 & 1 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0609, \quad CR = 0.0230$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.355883 \\ 0.465883 \\ 0.089491 \\ 0.088744 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.7639 & 3.9767 & 4.0102 \\ 1.3091 & 1 & 5.2059 & 5.2498 \\ 0.2515 & 0.1921 & 1 & 1.0084 \\ 0.2494 & 0.1905 & 0.9916 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.355801 \\ 0.465778 \\ 0.089471 \\ 0.088950 \end{pmatrix} = 0.999770 \cdot \begin{pmatrix} 0.355883 \\ 0.465883 \\ 0.089491 \\ 0.088971 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.7639 & 3.9767 & 4 \\ 1.3091 & 1 & 5.2059 & 5.2364 \\ 0.2515 & 0.1921 & 1 & 1.0059 \\ 1/4 & 0.1910 & 0.9942 & 1 \end{pmatrix},$$

Example 0.126.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 4 \\ 1 & 1 & 9 & 6 \\ 1/3 & 1/9 & 1 & 1 \\ 1/4 & 1/6 & 1 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.341479 \\ 0.498029 \\ 0.080342 \\ \mathbf{0.080150} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.6857 & 4.2503 & \mathbf{4.2605} \\ 1.4585 & 1 & 6.1989 & \mathbf{6.2137} \\ 0.2353 & 0.1613 & 1 & \mathbf{1.0024} \\ \mathbf{0.2347} & \mathbf{0.1609} & \mathbf{0.9976} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.341413 \\ 0.497934 \\ 0.080327 \\ 0.080327 \end{pmatrix} = 0.999808 \cdot \begin{pmatrix} 0.341479 \\ 0.498029 \\ 0.080342 \\ \mathbf{0.080342} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.6857 & 4.2503 & \mathbf{4.2503} \\ 1.4585 & 1 & 6.1989 & \mathbf{6.1989} \\ 0.2353 & 0.1613 & 1 & \mathbf{1} \\ \mathbf{0.2353} & \mathbf{0.1613} & \mathbf{1} & 1 \end{pmatrix},$$

Example 0.127.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 5 \\ 1 & 1 & 5 & 3 \\ 1/3 & 1/5 & 1 & 3 \\ 1/5 & 1/3 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2253, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.377329 \\ 0.405047 \\ 0.138092 \\ 0.079532 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9316 & 2.7324 & 4.7444 \\ 1.0735 & 1 & 2.9332 & 5.0929 \\ 0.3660 & 0.3409 & 1 & 1.7363 \\ 0.2108 & 0.1964 & 0.5759 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.389737 \\ 0.396976 \\ 0.135340 \\ 0.077947 \end{pmatrix} = 0.980073 \cdot \begin{pmatrix} 0.397661 \\ 0.405047 \\ 0.138092 \\ 0.079532 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9818 & 2.8797 & 5 \\ 1.0186 & 1 & 2.9332 & 5.0929 \\ 0.3473 & 0.3409 & 1 & 1.7363 \\ 1/5 & 0.1964 & 0.5759 & 1 \end{pmatrix},$$

Example 0.128.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 5 \\ 1 & 1 & 6 & 3 \\ 1/3 & 1/6 & 1 & 1/3 \\ 1/5 & 1/3 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.399985 \\ 0.389572 \\ 0.075372 \\ 0.135071 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0267 & 5.3068 & 2.9613 \\ 0.9740 & 1 & 5.1687 & 2.8842 \\ 0.1884 & 0.1935 & 1 & 0.5580 \\ 0.3377 & 0.3467 & 1.7921 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.395863 \\ 0.395863 \\ 0.074595 \\ 0.133679 \end{pmatrix} = 0.989694 \cdot \begin{pmatrix} 0.399985 \\ 0.399985 \\ 0.075372 \\ 0.135071 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 5.3068 & 2.9613 \\ 1 & 1 & 5.3068 & 2.9613 \\ 0.1884 & 0.1884 & 1 & 0.5580 \\ 0.3377 & 0.3377 & 1.7921 & 1 \end{pmatrix},$$

Example 0.129.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 6 \\ 1 & 1 & 4 & 4 \\ 1/3 & 1/4 & 1 & 3 \\ 1/6 & 1/4 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.395250 \\ 0.396199 \\ 0.140330 \\ 0.068221 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9976 & 2.8166 & 5.7936 \\ 1.0024 & 1 & 2.8233 & 5.8075 \\ 0.3550 & 0.3542 & 1 & 2.0570 \\ 0.1726 & 0.1722 & 0.4861 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.395823 \\ 0.395823 \\ 0.140197 \\ 0.068157 \end{pmatrix} = 0.999052 \cdot \begin{pmatrix} 0.396199 \\ 0.396199 \\ 0.140330 \\ 0.068221 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.8233 & 5.8075 \\ 1 & 1 & 2.8233 & 5.8075 \\ 0.3542 & 0.3542 & 1 & 2.0570 \\ 0.1722 & 0.1722 & 0.4862 & 1 \end{pmatrix},$$

Example 0.130.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 6 \\ 1 & 1 & 5 & 4 \\ 1/3 & 1/5 & 1 & 3 \\ 1/6 & 1/4 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1502, \quad CR = 0.0566$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.385295 \\ 0.416126 \\ 0.131279 \\ 0.067300 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9259 & 2.9349 & 5.7251 \\ 1.0800 & 1 & 3.1698 & 6.1832 \\ 0.3407 & 0.3155 & 1 & 1.9507 \\ 0.1747 & 0.1617 & 0.5126 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.390501 \\ 0.412603 \\ 0.130167 \\ 0.066729 \end{pmatrix} = 0.991532 \cdot \begin{pmatrix} 0.393836 \\ 0.416126 \\ 0.131279 \\ 0.067300 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9464 & 3 & 5.8520 \\ 1.0566 & 1 & 3.1698 & 6.1832 \\ 1/3 & 0.3155 & 1 & 1.9507 \\ 0.1709 & 0.1617 & 0.5126 & 1 \end{pmatrix},$$

Example 0.131.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 6 \\ 1 & 1 & 5 & 4 \\ 1/3 & 1/5 & 1 & 1/2 \\ 1/6 & 1/4 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.409202 \\ \mathbf{0.398791} \\ 0.085162 \\ 0.106845 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{1.0261} & 4.8050 & 3.8299 \\ \mathbf{0.9746} & 1 & \mathbf{4.6828} & \mathbf{3.7324} \\ 0.2081 & \mathbf{0.2135} & 1 & 0.7971 \\ 0.2611 & \mathbf{0.2679} & 1.2546 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.404986 \\ 0.404986 \\ 0.084284 \\ 0.105744 \end{pmatrix} = 0.989696 \cdot \begin{pmatrix} 0.409202 \\ \mathbf{0.409202} \\ 0.085162 \\ 0.106845 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{1} & 4.8050 & 3.8299 \\ \mathbf{1} & 1 & \mathbf{4.8050} & \mathbf{3.8299} \\ 0.2081 & \mathbf{0.2081} & 1 & 0.7971 \\ 0.2611 & \mathbf{0.2611} & 1.2546 & 1 \end{pmatrix},$$

Example 0.132.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 7 \\ 1 & 1 & 4 & 5 \\ 1/3 & 1/4 & 1 & 3 \\ 1/7 & 1/5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0649, \quad CR = 0.0245$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.400675 \\ 0.404497 \\ 0.135067 \\ 0.059761 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9906 & 2.9665 & 6.7046 \\ 1.0095 & 1 & 2.9948 & 6.7686 \\ 0.3371 & 0.3339 & 1 & 2.2601 \\ 0.1492 & 0.1477 & 0.4425 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.402957 \\ 0.402957 \\ 0.134552 \\ 0.059533 \end{pmatrix} = 0.996193 \cdot \begin{pmatrix} 0.404497 \\ 0.404497 \\ 0.135067 \\ 0.059761 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.9948 & 6.7686 \\ 1 & 1 & 2.9948 & 6.7686 \\ 0.3339 & 0.3339 & 1 & 2.2601 \\ 0.1477 & 0.1477 & 0.4425 & 1 \end{pmatrix},$$

Example 0.133.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 7 \\ 1 & 1 & 5 & 4 \\ 1/3 & 1/5 & 1 & 4 \\ 1/7 & 1/4 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2251, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.388139 \\ 0.411847 \\ 0.140041 \\ 0.059974 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9424 & 2.7716 & 6.4718 \\ 1.0611 & 1 & 2.9409 & 6.8671 \\ 0.3608 & 0.3400 & 1 & 2.3350 \\ 0.1545 & 0.1456 & 0.4283 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.402309 \\ 0.402309 \\ 0.136798 \\ 0.058585 \end{pmatrix} = 0.976841 \cdot \begin{pmatrix} 0.411847 \\ 0.411847 \\ 0.140041 \\ 0.059974 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.9409 & 6.8671 \\ 1 & 1 & 2.9409 & 6.8671 \\ 0.3400 & 0.3400 & 1 & 2.3350 \\ 0.1456 & 0.1456 & 0.4283 & 1 \end{pmatrix},$$

Example 0.134.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 7 \\ 1 & 1 & 5 & 4 \\ 1/3 & 1/5 & 1 & 1/2 \\ 1/7 & 1/4 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2057, \quad CR = 0.0776$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.423221 \\ 0.390610 \\ 0.084271 \\ 0.101899 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0835 & 5.0222 & 4.1534 \\ 0.9229 & 1 & 4.6352 & 3.8333 \\ 0.1991 & 0.2157 & 1 & 0.8270 \\ 0.2408 & 0.2609 & 1.2092 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.416153 \\ 0.400787 \\ 0.082863 \\ 0.100197 \end{pmatrix} = 0.983298 \cdot \begin{pmatrix} 0.423221 \\ 0.407594 \\ 0.084271 \\ 0.101899 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0383 & 5.0222 & 4.1533 \\ 0.9631 & 1 & 4.8367 & 4 \\ 0.1991 & 0.2068 & 1 & 0.8270 \\ 0.2408 & 1/4 & 1.2092 & 1 \end{pmatrix},$$

Example 0.135.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 7 \\ 1 & 1 & 5 & 5 \\ 1/3 & 1/5 & 1 & 1/2 \\ 1/7 & 1/5 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2095, \quad CR = 0.0790$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.413489 \\ 0.407582 \\ 0.083249 \\ 0.095680 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0145 & 4.9669 & 4.3216 \\ 0.9857 & 1 & 4.8959 & 4.2598 \\ 0.2013 & 0.2043 & 1 & 0.8701 \\ 0.2314 & 0.2348 & 1.1493 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.411061 \\ 0.411061 \\ 0.082760 \\ 0.095118 \end{pmatrix} = 0.994129 \cdot \begin{pmatrix} 0.413489 \\ 0.413489 \\ 0.083249 \\ 0.095680 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 4.9669 & 4.3216 \\ 1 & 1 & 4.9669 & 4.3216 \\ 0.2013 & 0.2013 & 1 & 0.8701 \\ 0.2314 & 0.2314 & 1.1493 & 1 \end{pmatrix},$$

Example 0.136.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 7 \\ 1 & 1 & 6 & 5 \\ 1/3 & 1/6 & 1 & 4 \\ 1/7 & 1/5 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2174, \quad CR = 0.0820$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.375335 \\ 0.441469 \\ 0.129059 \\ 0.054136 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8502 & 2.9082 & 6.9331 \\ 1.1762 & 1 & 3.4207 & 8.1547 \\ 0.3439 & 0.2923 & 1 & 2.3840 \\ 0.1442 & 0.1226 & 0.4195 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.377588 \\ 0.439876 \\ 0.128594 \\ 0.053941 \end{pmatrix} = 0.996392 \cdot \begin{pmatrix} 0.378956 \\ 0.441469 \\ 0.129059 \\ 0.054136 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8584 & 2.9363 & 7 \\ 1.1650 & 1 & 3.4207 & 8.1547 \\ 0.3406 & 0.2923 & 1 & 2.3840 \\ 1/7 & 0.1226 & 0.4195 & 1 \end{pmatrix},$$

Example 0.137.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 8 \\ 1 & 1 & 4 & 5 \\ 1/3 & 1/4 & 1 & 5 \\ 1/8 & 1/5 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1689, \quad CR = 0.0637$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.398073 \\ 0.398428 \\ 0.152994 \\ 0.050505 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9991 & 2.6019 & 7.8819 \\ 1.0009 & 1 & 2.6042 & 7.8889 \\ 0.3843 & 0.3840 & 1 & 3.0293 \\ 0.1269 & 0.1268 & 0.3301 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.398287 \\ 0.398287 \\ 0.152940 \\ 0.050487 \end{pmatrix} = 0.999646 \cdot \begin{pmatrix} 0.398428 \\ 0.398428 \\ 0.152994 \\ 0.050505 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.6042 & 7.8889 \\ 1 & 1 & 2.6042 & 7.8889 \\ 0.3840 & 0.3840 & 1 & 3.0293 \\ 0.1268 & 0.1268 & 0.3301 & 1 \end{pmatrix},$$

Example 0.138.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 8 \\ 1 & 1 & 5 & 4 \\ 1/3 & 1/5 & 1 & 4 \\ 1/8 & 1/4 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.397054 \\ 0.407667 \\ 0.137665 \\ 0.057615 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9740 & 2.8842 & 6.8915 \\ 1.0267 & 1 & 2.9613 & 7.0757 \\ 0.3467 & 0.3377 & 1 & 2.3894 \\ 0.1451 & 0.1413 & 0.4185 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.403386 \\ 0.403386 \\ 0.136219 \\ 0.057010 \end{pmatrix} = 0.989499 \cdot \begin{pmatrix} 0.407667 \\ 0.407667 \\ 0.137665 \\ 0.057615 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.9613 & 7.0757 \\ 1 & 1 & 2.9613 & 7.0757 \\ 0.3377 & 0.3377 & 1 & 2.3894 \\ 0.1413 & 0.1413 & 0.4185 & 1 \end{pmatrix},$$

Example 0.139.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 8 \\ 1 & 1 & 5 & 4 \\ 1/3 & 1/5 & 1 & 1/2 \\ 1/8 & 1/4 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.435826 \\ 0.383095 \\ 0.083404 \\ 0.097675 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1376 & 5.2255 & 4.4620 \\ 0.8790 & 1 & 4.5933 & 3.9221 \\ 0.1914 & 0.2177 & 1 & 0.8539 \\ 0.2241 & 0.2550 & 1.1711 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.432535 \\ 0.387752 \\ 0.082774 \\ 0.096938 \end{pmatrix} = 0.992451 \cdot \begin{pmatrix} 0.435826 \\ 0.390702 \\ 0.083404 \\ 0.097675 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1155 & 5.2255 & 4.4620 \\ 0.8965 & 1 & 4.6845 & 4 \\ 0.1914 & 0.2135 & 1 & 0.8539 \\ 0.2241 & 1/4 & 1.1711 & 1 \end{pmatrix},$$

Example 0.140.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 8 \\ 1 & 1 & 5 & 5 \\ 1/3 & 1/5 & 1 & 4 \\ 1/8 & 1/5 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.393123 \\ 0.419753 \\ 0.134462 \\ 0.052663 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9366 & 2.9237 & 7.4649 \\ 1.0677 & 1 & 3.1217 & 7.9705 \\ 0.3420 & 0.3203 & 1 & 2.5532 \\ 0.1340 & 0.1255 & 0.3917 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.399287 \\ 0.415489 \\ 0.133096 \\ 0.052128 \end{pmatrix} = 0.989843 \cdot \begin{pmatrix} 0.403384 \\ 0.419753 \\ 0.134462 \\ 0.052663 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9610 & 3 & 7.6598 \\ 1.0406 & 1 & 3.1217 & 7.9706 \\ 1/3 & 0.3203 & 1 & 2.5533 \\ 0.1306 & 0.1255 & 0.3917 & 1 \end{pmatrix},$$

Example 0.141.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 8 \\ 1 & 1 & 5 & 5 \\ 1/3 & 1/5 & 1 & 5 \\ 1/8 & 1/5 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2259, \quad CR = 0.0852$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.387153 \\ 0.419577 \\ 0.143367 \\ 0.049904 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9227 & 2.7004 & 7.7580 \\ 1.0838 & 1 & 2.9266 & 8.4077 \\ 0.3703 & 0.3417 & 1 & 2.8729 \\ 0.1289 & 0.1189 & 0.3481 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.394465 \\ 0.414571 \\ 0.141656 \\ 0.049308 \end{pmatrix} = 0.988069 \cdot \begin{pmatrix} 0.399228 \\ 0.419577 \\ 0.143367 \\ 0.049904 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9515 & 2.7847 & 8 \\ 1.0510 & 1 & 2.9266 & 8.4078 \\ 0.3591 & 0.3417 & 1 & 2.8729 \\ 1/8 & 0.1189 & 0.3481 & 1 \end{pmatrix},$$

Example 0.142.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 8 \\ 1 & 1 & 5 & 5 \\ 1/3 & 1/5 & 1 & 1/2 \\ 1/8 & 1/5 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.425832 \\ 0.399788 \\ 0.082511 \\ 0.091869 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0651 & 5.1609 & 4.6352 \\ 0.9388 & 1 & 4.8453 & 4.3517 \\ 0.1938 & 0.2064 & 1 & 0.8981 \\ 0.2157 & 0.2298 & 1.1134 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.420463 \\ 0.407356 \\ 0.081471 \\ 0.090710 \end{pmatrix} = 0.987391 \cdot \begin{pmatrix} 0.425832 \\ 0.412558 \\ 0.082511 \\ 0.091869 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0322 & 5.1609 & 4.6352 \\ 0.9688 & 1 & 5 & 4.4907 \\ 0.1938 & 1/5 & 1 & 0.8981 \\ 0.2157 & 0.2227 & 1.1134 & 1 \end{pmatrix},$$

Example 0.143.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 8 \\ 1 & 1 & 5 & 6 \\ 1/3 & 1/5 & 1 & 4 \\ 1/8 & 1/6 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1252, \quad CR = 0.0472$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.389517 \\ 0.429646 \\ 0.131801 \\ 0.049036 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9066 & 2.9553 & 7.9436 \\ 1.1030 & 1 & 3.2598 & 8.7619 \\ 0.3384 & 0.3068 & 1 & 2.6879 \\ 0.1259 & 0.1141 & 0.3720 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.391202 \\ 0.428459 \\ 0.131438 \\ 0.048900 \end{pmatrix} = 0.997239 \cdot \begin{pmatrix} 0.392285 \\ 0.429646 \\ 0.131801 \\ 0.049036 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9130 & 2.9763 & 8 \\ 1.0952 & 1 & 3.2598 & 8.7619 \\ 0.3360 & 0.3068 & 1 & 2.6879 \\ 1/8 & 0.1141 & 0.3720 & 1 \end{pmatrix},$$

Example 0.144.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 8 \\ 1 & 1 & 6 & 5 \\ 1/3 & 1/6 & 1 & 1/2 \\ 1/8 & 1/5 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.420183 \\ 0.412002 \\ 0.078119 \\ 0.089697 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0199 & 5.3788 & 4.6845 \\ 0.9805 & 1 & 5.2741 & 4.5933 \\ 0.1859 & 0.1896 & 1 & 0.8709 \\ 0.2135 & 0.2177 & 1.1482 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.416773 \\ 0.416773 \\ 0.077485 \\ 0.088969 \end{pmatrix} = 0.991886 \cdot \begin{pmatrix} 0.420183 \\ 0.420183 \\ 0.078119 \\ 0.089697 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 5.3788 & 4.6845 \\ 1 & 1 & 5.3788 & 4.6845 \\ 0.1859 & 0.1859 & 1 & 0.8709 \\ 0.2135 & 0.2135 & 1.1482 & 1 \end{pmatrix},$$

Example 0.145.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 9 \\ 1 & 1 & 4 & 6 \\ 1/3 & 1/4 & 1 & 1 \\ 1/9 & 1/6 & 1 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.428048 \\ 0.401877 \\ 0.100710 \\ 0.069365 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0651 & 4.2503 & 6.1709 \\ 0.9389 & 1 & 3.9904 & 5.7936 \\ 0.2353 & 0.2506 & 1 & 1.4519 \\ 0.1621 & 0.1726 & 0.6888 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.427636 \\ 0.402452 \\ 0.100613 \\ 0.069299 \end{pmatrix} = 0.999037 \cdot \begin{pmatrix} 0.428048 \\ 0.402840 \\ 0.100710 \\ 0.069365 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0626 & 4.2503 & 6.1709 \\ 0.9411 & 1 & 4 & 5.8075 \\ 0.2353 & 1/4 & 1 & 1.4519 \\ 0.1621 & 0.1722 & 0.6888 & 1 \end{pmatrix},$$

Example 0.146.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 9 \\ 1 & 1 & 4 & 6 \\ 1/3 & 1/4 & 1 & 5 \\ 1/9 & 1/6 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1252, \quad CR = 0.0472$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.402000 \\ 0.404854 \\ 0.147804 \\ 0.045342 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9930 & 2.7198 & 8.8660 \\ 1.0071 & 1 & 2.7391 & 8.9290 \\ 0.3677 & 0.3651 & 1 & 3.2598 \\ 0.1128 & 0.1120 & 0.3068 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.403702 \\ 0.403702 \\ 0.147383 \\ 0.045213 \end{pmatrix} = 0.997154 \cdot \begin{pmatrix} 0.404854 \\ 0.404854 \\ 0.147804 \\ 0.045342 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.7391 & 8.9290 \\ 1 & 1 & 2.7391 & 8.9290 \\ 0.3651 & 0.3651 & 1 & 3.2598 \\ 0.1120 & 0.1120 & 0.3068 & 1 \end{pmatrix},$$

Example 0.147.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 9 \\ 1 & 1 & 4 & 7 \\ 1/3 & 1/4 & 1 & 4 \\ 1/9 & 1/7 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0576, \quad CR = 0.0217$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.403144 \\ 0.414621 \\ 0.137011 \\ 0.045224 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9723 & 2.9424 & 8.9144 \\ 1.0285 & 1 & 3.0262 & 9.1682 \\ 0.3399 & 0.3304 & 1 & 3.0296 \\ 0.1122 & 0.1091 & 0.3301 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.405446 \\ 0.413022 \\ 0.136483 \\ 0.045049 \end{pmatrix} = 0.996142 \cdot \begin{pmatrix} 0.407016 \\ 0.414621 \\ 0.137011 \\ 0.045224 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9817 & 2.9707 & 9 \\ 1.0187 & 1 & 3.0262 & 9.1682 \\ 0.3366 & 0.3304 & 1 & 3.0296 \\ 1/9 & 0.1091 & 0.3301 & 1 \end{pmatrix},$$

Example 0.148.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 9 \\ 1 & 1 & 5 & 5 \\ 1/3 & 1/5 & 1 & 5 \\ 1/9 & 1/5 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2253, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.394681 \\ 0.415947 \\ 0.141225 \\ 0.048148 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9489 & 2.7947 & 8.1973 \\ 1.0539 & 1 & 2.9453 & 8.6390 \\ 0.3578 & 0.3395 & 1 & 2.9332 \\ 0.1220 & 0.1158 & 0.3409 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.407286 \\ 0.407286 \\ 0.138284 \\ 0.047145 \end{pmatrix} = 0.979178 \cdot \begin{pmatrix} 0.415947 \\ 0.415947 \\ 0.141225 \\ 0.048148 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.9453 & 8.6391 \\ 1 & 1 & 2.9453 & 8.6391 \\ 0.3395 & 0.3395 & 1 & 2.9332 \\ 0.1158 & 0.1158 & 0.3409 & 1 \end{pmatrix},$$

Example 0.149.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 9 \\ 1 & 1 & 5 & 6 \\ 1/3 & 1/5 & 1 & 5 \\ 1/9 & 1/6 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1758, \quad CR = 0.0663$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.391423 \\ 0.425527 \\ 0.138314 \\ 0.044736 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9199 & 2.8300 & 8.7495 \\ 1.0871 & 1 & 3.0765 & 9.5119 \\ 0.3534 & 0.3250 & 1 & 3.0917 \\ 0.1143 & 0.1051 & 0.3234 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.398166 \\ 0.420813 \\ 0.136781 \\ 0.044241 \end{pmatrix} = 0.988921 \cdot \begin{pmatrix} 0.402627 \\ 0.425527 \\ 0.138314 \\ 0.044736 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9462 & 2.9110 & 9 \\ 1.0569 & 1 & 3.0765 & 9.5119 \\ 0.3435 & 0.3250 & 1 & 3.0918 \\ 1/9 & 0.1051 & 0.3234 & 1 \end{pmatrix},$$

Example 0.150.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 9 \\ 1 & 1 & 6 & 6 \\ 1/3 & 1/6 & 1 & 5 \\ 1/9 & 1/6 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.381874 \\ 0.443298 \\ 0.130694 \\ 0.044134 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8614 & 2.9219 & 8.6526 \\ 1.1608 & 1 & 3.3919 & 10.0444 \\ 0.3422 & 0.2948 & 1 & 2.9613 \\ 0.1156 & 0.0996 & 0.3377 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.388120 \\ 0.438818 \\ 0.129373 \\ 0.043688 \end{pmatrix} = 0.989894 \cdot \begin{pmatrix} 0.392083 \\ 0.443298 \\ 0.130694 \\ 0.044134 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8845 & 3 & 8.8839 \\ 1.1306 & 1 & 3.3919 & 10.0444 \\ 1/3 & 0.2948 & 1 & 2.9613 \\ 0.1126 & 0.0996 & 0.3377 & 1 \end{pmatrix},$$

Example 0.151.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/2 \\ 1 & 1 & 4 & 1/3 \\ 1/3 & 1/4 & 1 & 1/4 \\ 2 & 3 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.225801 \\ 0.226343 \\ 0.080169 \\ 0.467688 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9976 & 2.8166 & 0.4828 \\ 1.0024 & 1 & 2.8233 & 0.4840 \\ 0.3550 & 0.3542 & 1 & 0.1714 \\ 2.0712 & 2.0663 & 5.8338 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.226220 \\ 0.226220 \\ 0.080125 \\ 0.467435 \end{pmatrix} = 0.999457 \cdot \begin{pmatrix} 0.226343 \\ 0.226343 \\ 0.080169 \\ 0.467688 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.8233 & 0.4840 \\ 1 & 1 & 2.8233 & 0.4840 \\ 0.3542 & 0.3542 & 1 & 0.1714 \\ 2.0663 & 2.0663 & 5.8338 & 1 \end{pmatrix},$$

Example 0.152.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/2 \\ 1 & 1 & 5 & 1/3 \\ 1/3 & 1/5 & 1 & 1/4 \\ 2 & 3 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1502, \quad CR = 0.0566$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.221397 \\ 0.239113 \\ 0.075435 \\ 0.464056 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9259 & 2.9349 & 0.4771 \\ 1.0800 & 1 & 3.1698 & 0.5153 \\ 0.3407 & 0.3155 & 1 & 0.1626 \\ 2.0960 & 1.9407 & 6.1517 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.225199 \\ 0.237945 \\ 0.075066 \\ 0.461789 \end{pmatrix} = 0.995117 \cdot \begin{pmatrix} 0.226304 \\ 0.239113 \\ 0.075435 \\ 0.464056 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9464 & 3 & 0.4877 \\ 1.0566 & 1 & 3.1698 & 0.5153 \\ 1/3 & 0.3155 & 1 & 0.1626 \\ 2.0506 & 1.9407 & 6.1517 & 1 \end{pmatrix},$$

Example 0.153.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/2 \\ 1 & 1 & 5 & 1/4 \\ 1/3 & 1/5 & 1 & 1/4 \\ 2 & 4 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.212986 \\ 0.218680 \\ 0.073846 \\ 0.494488 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9740 & 2.8842 & 0.4307 \\ 1.0267 & 1 & 2.9613 & 0.4422 \\ 0.3467 & 0.3377 & 1 & 0.1493 \\ 2.3217 & 2.2612 & 6.6962 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.217441 \\ 0.217441 \\ 0.073428 \\ 0.491690 \end{pmatrix} = 0.994338 \cdot \begin{pmatrix} 0.218680 \\ 0.218680 \\ 0.073846 \\ 0.494488 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.9613 & 0.4422 \\ 1 & 1 & 2.9613 & 0.4422 \\ 0.3377 & 0.3377 & 1 & 0.1493 \\ 2.2613 & 2.2613 & 6.6962 & 1 \end{pmatrix},$$

Example 0.154.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/3 \\ 1 & 1 & 4 & 1/4 \\ 1/3 & 1/4 & 1 & 1/7 \\ 3 & 4 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0576, \quad CR = 0.0217$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.183773 \\ 0.187369 \\ 0.061846 \\ 0.567012 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9808 & 2.9715 & 0.3241 \\ 1.0196 & 1 & 3.0296 & 0.3304 \\ 0.3365 & 0.3301 & 1 & 0.1091 \\ 3.0854 & 3.0262 & 9.1682 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.185210 \\ 0.187040 \\ 0.061737 \\ 0.566013 \end{pmatrix} = 0.998243 \cdot \begin{pmatrix} 0.185536 \\ 0.187369 \\ 0.061846 \\ 0.567012 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9902 & 3 & 0.3272 \\ 1.0099 & 1 & 3.0296 & 0.3305 \\ 1/3 & 0.3301 & 1 & 0.1091 \\ 3.0561 & 3.0262 & 9.1682 & 1 \end{pmatrix},$$

Example 0.155.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/3 \\ 1 & 1 & 5 & 1/4 \\ 1/3 & 1/5 & 1 & 1/6 \\ 3 & 4 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1252, \quad CR = 0.0472$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.183060 \\ 0.201918 \\ 0.061942 \\ 0.553080 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9066 & 2.9553 & 0.3310 \\ 1.1030 & 1 & 3.2598 & 0.3651 \\ 0.3384 & 0.3068 & 1 & 0.1120 \\ 3.0213 & 2.7391 & 8.9290 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.184121 \\ 0.201656 \\ 0.061862 \\ 0.552362 \end{pmatrix} = 0.998700 \cdot \begin{pmatrix} 0.184361 \\ 0.201918 \\ 0.061942 \\ 0.553080 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9130 & 2.9763 & 1/3 \\ 1.0952 & 1 & 3.2598 & 0.3651 \\ 0.3360 & 0.3068 & 1 & 0.1120 \\ 3 & 2.7391 & 8.9290 & 1 \end{pmatrix},$$

Example 0.156.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/3 \\ 1 & 1 & 5 & 1/5 \\ 1/3 & 1/5 & 1 & 1/5 \\ 3 & 5 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2253, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.178537 \\ 0.191652 \\ 0.065340 \\ 0.564471 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9316 & 2.7324 & 0.3163 \\ 1.0735 & 1 & 2.9332 & 0.3395 \\ 0.3660 & 0.3409 & 1 & 0.1158 \\ 3.1616 & 2.9453 & 8.6390 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.186364 \\ 0.189826 \\ 0.064717 \\ 0.559093 \end{pmatrix} = 0.990471 \cdot \begin{pmatrix} 0.188157 \\ 0.191652 \\ 0.065340 \\ 0.564471 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9818 & 2.8797 & 1/3 \\ 1.0186 & 1 & 2.9332 & 0.3395 \\ 0.3473 & 0.3409 & 1 & 0.1158 \\ 3 & 2.9453 & 8.6391 & 1 \end{pmatrix},$$

Example 0.157.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/3 \\ 1 & 1 & 5 & 1/5 \\ 1/3 & 1/5 & 1 & 1/6 \\ 3 & 5 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1758, \quad CR = 0.0663$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.176543 \\ 0.187150 \\ 0.060532 \\ 0.575775 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9433 & 2.9165 & 0.3066 \\ 1.0601 & 1 & 3.0917 & 0.3250 \\ 0.3429 & 0.3234 & 1 & 0.1051 \\ 3.2614 & 3.0766 & 9.5119 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.180683 \\ 0.186209 \\ 0.060228 \\ 0.572880 \end{pmatrix} = 0.994974 \cdot \begin{pmatrix} 0.181596 \\ 0.187150 \\ 0.060532 \\ 0.575775 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9703 & 3 & 0.3154 \\ 1.0306 & 1 & 3.0918 & 0.3250 \\ 1/3 & 0.3234 & 1 & 0.1051 \\ 3.1706 & 3.0765 & 9.5119 & 1 \end{pmatrix},$$

Example 0.158.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/3 \\ 1 & 1 & 5 & 1/6 \\ 1/3 & 1/5 & 1 & 1/6 \\ 3 & 6 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.170765 \\ 0.175330 \\ 0.059207 \\ 0.594697 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9740 & 2.8842 & 0.2871 \\ 1.0267 & 1 & 2.9613 & 0.2948 \\ 0.3467 & 0.3377 & 1 & 0.0996 \\ 3.4825 & 3.3919 & 10.0444 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.174533 \\ 0.174533 \\ 0.058938 \\ 0.591996 \end{pmatrix} = 0.995455 \cdot \begin{pmatrix} 0.175330 \\ 0.175330 \\ 0.059207 \\ 0.594697 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.9613 & 0.2948 \\ 1 & 1 & 2.9613 & 0.2948 \\ 0.3377 & 0.3377 & 1 & 0.0996 \\ 3.3919 & 3.3919 & 10.0444 & 1 \end{pmatrix},$$

Example 0.159.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/4 \\ 1 & 1 & 4 & 1/5 \\ 1/3 & 1/4 & 1 & 1/9 \\ 4 & 5 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0539, \quad CR = 0.0203$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.156794 \\ 0.162182 \\ 0.053233 \\ 0.627791 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9668 & 2.9455 & 0.2498 \\ 1.0344 & 1 & 3.0467 & 0.2583 \\ 0.3395 & 0.3282 & 1 & 0.0848 \\ 4.0039 & 3.8709 & 11.7933 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.156924 \\ 0.162158 \\ 0.053224 \\ 0.627694 \end{pmatrix} = 0.999852 \cdot \begin{pmatrix} 0.156947 \\ 0.162182 \\ 0.053233 \\ 0.627791 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9677 & 2.9483 & 1/4 \\ 1.0334 & 1 & 3.0467 & 0.2583 \\ 0.3392 & 0.3282 & 1 & 0.0848 \\ 4 & 3.8709 & 11.7933 & 1 \end{pmatrix},$$

Example 0.160.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/4 \\ 1 & 1 & 4 & 1/6 \\ 1/3 & 1/4 & 1 & 1/7 \\ 4 & 6 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1317, \quad CR = 0.0496$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.155800 \\ 0.157105 \\ 0.057830 \\ 0.629265 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9917 & 2.6941 & 0.2476 \\ 1.0084 & 1 & 2.7167 & 0.2497 \\ 0.3712 & 0.3681 & 1 & 0.0919 \\ 4.0389 & 4.0054 & 10.8812 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.156900 \\ 0.156900 \\ 0.057755 \\ 0.628445 \end{pmatrix} = 0.998693 \cdot \begin{pmatrix} 0.157105 \\ 0.157105 \\ 0.057830 \\ 0.629265 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.7167 & 0.2497 \\ 1 & 1 & 2.7167 & 0.2497 \\ 0.3681 & 0.3681 & 1 & 0.0919 \\ 4.0054 & 4.0054 & 10.8812 & 1 \end{pmatrix},$$

Example 0.161.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/4 \\ 1 & 1 & 4 & 1/6 \\ 1/3 & 1/4 & 1 & 1/8 \\ 4 & 6 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.153848 \\ 0.154217 \\ 0.054622 \\ 0.637312 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9976 & 2.8166 & 0.2414 \\ 1.0024 & 1 & 2.8233 & 0.2420 \\ 0.3550 & 0.3542 & 1 & 0.0857 \\ 4.1425 & 4.1326 & 11.6676 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.154160 \\ 0.154160 \\ 0.054602 \\ 0.637078 \end{pmatrix} = 0.999628 \cdot \begin{pmatrix} 0.154217 \\ 0.154217 \\ 0.054622 \\ 0.637312 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.8233 & 0.2420 \\ 1 & 1 & 2.8233 & 0.2420 \\ 0.3542 & 0.3542 & 1 & 0.0857 \\ 4.1326 & 4.1326 & 11.6676 & 1 \end{pmatrix},$$

Example 0.162.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/4 \\ 1 & 1 & 5 & 1/6 \\ 1/3 & 1/5 & 1 & 1/7 \\ 4 & 6 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1832, \quad CR = 0.0691$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.152904 \\ 0.166521 \\ 0.054568 \\ 0.626007 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9182 & 2.8021 & 0.2443 \\ 1.0891 & 1 & 3.0516 & 0.2660 \\ 0.3569 & 0.3277 & 1 & 0.0872 \\ 4.0941 & 3.7593 & 11.4721 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.155941 \\ 0.165925 \\ 0.054372 \\ 0.623762 \end{pmatrix} = 0.996418 \cdot \begin{pmatrix} 0.156502 \\ 0.166521 \\ 0.054568 \\ 0.626007 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9398 & 2.8680 & 1/4 \\ 1.0640 & 1 & 3.0517 & 0.2660 \\ 0.3487 & 0.3277 & 1 & 0.0872 \\ 4 & 3.7593 & 11.4721 & 1 \end{pmatrix},$$

Example 0.163.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/4 \\ 1 & 1 & 5 & 1/6 \\ 1/3 & 1/5 & 1 & 1/8 \\ 4 & 6 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1502, \quad CR = 0.0566$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.151221 \\ 0.163322 \\ 0.051525 \\ 0.633932 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9259 & 2.9349 & 0.2385 \\ 1.0800 & 1 & 3.1698 & 0.2576 \\ 0.3407 & 0.3155 & 1 & 0.0813 \\ 4.1921 & 3.8815 & 12.3035 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.154057 \\ 0.162777 \\ 0.051352 \\ 0.631814 \end{pmatrix} = 0.996662 \cdot \begin{pmatrix} 0.154573 \\ 0.163322 \\ 0.051525 \\ 0.633932 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9464 & 3 & 0.2438 \\ 1.0566 & 1 & 3.1698 & 0.2576 \\ 1/3 & 0.3155 & 1 & 0.0813 \\ 4.1012 & 3.8815 & 12.3035 & 1 \end{pmatrix},$$

Example 0.164.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/4 \\ 1 & 1 & 5 & 1/7 \\ 1/3 & 1/5 & 1 & 1/7 \\ 4 & 7 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2251, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.148185 \\ 0.157236 \\ 0.053465 \\ 0.641114 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9424 & 2.7716 & 0.2311 \\ 1.0611 & 1 & 2.9409 & 0.2453 \\ 0.3608 & 0.3400 & 1 & 0.0834 \\ 4.3264 & 4.0774 & 11.9912 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.155825 \\ 0.155825 \\ 0.052986 \\ 0.635364 \end{pmatrix} = 0.991026 \cdot \begin{pmatrix} 0.157236 \\ 0.157236 \\ 0.053465 \\ 0.641114 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.9409 & 0.2453 \\ 1 & 1 & 2.9409 & 0.2453 \\ 0.3400 & 0.3400 & 1 & 0.0834 \\ 4.0774 & 4.0774 & 11.9912 & 1 \end{pmatrix},$$

Example 0.165.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/4 \\ 1 & 1 & 5 & 1/7 \\ 1/3 & 1/5 & 1 & 1/8 \\ 4 & 7 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1888, \quad CR = 0.0712$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.146643 \\ 0.154127 \\ 0.050429 \\ 0.648801 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9514 & 2.9079 & 0.2260 \\ 1.0510 & 1 & 3.0563 & 0.2376 \\ 0.3439 & 0.3272 & 1 & 0.0777 \\ 4.4243 & 4.2095 & 12.8657 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.150587 \\ 0.153414 \\ 0.050196 \\ 0.645803 \end{pmatrix} = 0.995377 \cdot \begin{pmatrix} 0.151286 \\ 0.154127 \\ 0.050429 \\ 0.648801 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9816 & 3 & 0.2332 \\ 1.0188 & 1 & 3.0563 & 0.2376 \\ 1/3 & 0.3272 & 1 & 0.0777 \\ 4.2886 & 4.2095 & 12.8657 & 1 \end{pmatrix},$$

Example 0.166.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/4 \\ 1 & 1 & 5 & 1/8 \\ 1/3 & 1/5 & 1 & 1/8 \\ 4 & 8 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.142514 \\ 0.146324 \\ 0.049412 \\ 0.661750 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9740 & 2.8842 & 0.2154 \\ 1.0267 & 1 & 2.9613 & 0.2211 \\ 0.3467 & 0.3377 & 1 & 0.0747 \\ 4.6434 & 4.5225 & 13.3925 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.145769 \\ 0.145769 \\ 0.049224 \\ 0.659238 \end{pmatrix} = 0.996208 \cdot \begin{pmatrix} 0.146324 \\ 0.146324 \\ 0.049412 \\ 0.661750 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.9613 & 0.2211 \\ 1 & 1 & 2.9613 & 0.2211 \\ 0.3377 & 0.3377 & 1 & 0.0747 \\ 4.5225 & 4.5225 & 13.3925 & 1 \end{pmatrix},$$

Example 0.167.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/4 \\ 1 & 1 & 6 & 1/6 \\ 1/3 & 1/6 & 1 & 1/7 \\ 4 & 6 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2359, \quad CR = 0.0890$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.150368 \\ 0.174939 \\ 0.051990 \\ 0.622703 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8595 & 2.8923 & 0.2415 \\ 1.1634 & 1 & 3.3648 & 0.2809 \\ 0.3458 & 0.2972 & 1 & 0.0835 \\ 4.1412 & 3.5595 & 11.9773 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.154854 \\ 0.174015 \\ 0.051715 \\ 0.619416 \end{pmatrix} = 0.994720 \cdot \begin{pmatrix} 0.155676 \\ 0.174939 \\ 0.051990 \\ 0.622703 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8899 & 2.9943 & 1/4 \\ 1.1237 & 1 & 3.3649 & 0.2809 \\ 0.3340 & 0.2972 & 1 & 0.0835 \\ 4 & 3.5596 & 11.9774 & 1 \end{pmatrix},$$

Example 0.168.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/5 \\ 1 & 1 & 4 & 1/8 \\ 1/3 & 1/4 & 1 & 1/8 \\ 5 & 8 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1689, \quad CR = 0.0637$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.134046 \\ 0.134165 \\ 0.051519 \\ 0.680271 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9991 & 2.6019 & 0.1970 \\ 1.0009 & 1 & 2.6042 & 0.1972 \\ 0.3843 & 0.3840 & 1 & 0.0757 \\ 5.0749 & 5.0704 & 13.2043 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.134149 \\ 0.134149 \\ 0.051513 \\ 0.680189 \end{pmatrix} = 0.999882 \cdot \begin{pmatrix} 0.134165 \\ 0.134165 \\ 0.051519 \\ 0.680271 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.6042 & 0.1972 \\ 1 & 1 & 2.6042 & 0.1972 \\ 0.3840 & 0.3840 & 1 & 0.0757 \\ 5.0704 & 5.0704 & 13.2043 & 1 \end{pmatrix},$$

Example 0.169.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/5 \\ 1 & 1 & 5 & 1/7 \\ 1/3 & 1/5 & 1 & 1/9 \\ 5 & 7 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1596, \quad CR = 0.0602$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.133807 \\ 0.147205 \\ 0.047063 \\ 0.671926 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9090 & 2.8431 & 0.1991 \\ 1.1001 & 1 & 3.1278 & 0.2191 \\ 0.3517 & 0.3197 & 1 & 0.0700 \\ 5.0216 & 4.5646 & 14.2772 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.134307 \\ 0.147119 \\ 0.047036 \\ 0.671538 \end{pmatrix} = 0.999419 \cdot \begin{pmatrix} 0.134385 \\ 0.147205 \\ 0.047063 \\ 0.671926 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9129 & 2.8554 & 1/5 \\ 1.0954 & 1 & 3.1278 & 0.2191 \\ 0.3502 & 0.3197 & 1 & 0.0700 \\ 5 & 4.5646 & 14.2771 & 1 \end{pmatrix},$$

Example 0.170.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/5 \\ 1 & 1 & 5 & 1/8 \\ 1/3 & 1/5 & 1 & 1/8 \\ 5 & 8 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2259, \quad CR = 0.0852$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.131406 \\ 0.142411 \\ 0.048661 \\ 0.677522 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9227 & 2.7004 & 0.1940 \\ 1.0838 & 1 & 2.9266 & 0.2102 \\ 0.3703 & 0.3417 & 1 & 0.0718 \\ 5.1560 & 4.7575 & 13.9233 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.134951 \\ 0.141830 \\ 0.048462 \\ 0.674757 \end{pmatrix} = 0.995921 \cdot \begin{pmatrix} 0.135504 \\ 0.142411 \\ 0.048661 \\ 0.677522 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9515 & 2.7847 & 1/5 \\ 1.0510 & 1 & 2.9266 & 0.2102 \\ 0.3591 & 0.3417 & 1 & 0.0718 \\ 5 & 4.7575 & 13.9233 & 1 \end{pmatrix},$$

Example 0.171.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/5 \\ 1 & 1 & 5 & 1/8 \\ 1/3 & 1/5 & 1 & 1/9 \\ 5 & 8 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1922, \quad CR = 0.0725$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.130013 \\ 0.139788 \\ 0.046144 \\ 0.684055 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9301 & 2.8176 & 0.1901 \\ 1.0752 & 1 & 3.0294 & 0.2044 \\ 0.3549 & 0.3301 & 1 & 0.0675 \\ 5.2615 & 4.8935 & 14.8245 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.135887 \\ 0.138845 \\ 0.045832 \\ 0.679436 \end{pmatrix} = 0.993252 \cdot \begin{pmatrix} 0.136810 \\ 0.139788 \\ 0.046144 \\ 0.684055 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9787 & 2.9649 & 1/5 \\ 1.0218 & 1 & 3.0294 & 0.2044 \\ 0.3373 & 0.3301 & 1 & 0.0675 \\ 5 & 4.8935 & 14.8245 & 1 \end{pmatrix},$$

Example 0.172.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/5 \\ 1 & 1 & 5 & 1/9 \\ 1/3 & 1/5 & 1 & 1/8 \\ 5 & 9 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2612, \quad CR = 0.0985$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.127863 \\ 0.135934 \\ 0.047792 \\ 0.688411 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9406 & 2.6754 & 0.1857 \\ 1.0631 & 1 & 2.8443 & 0.1975 \\ 0.3738 & 0.3516 & 1 & 0.0694 \\ 5.3839 & 5.0643 & 14.4044 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.134846 \\ 0.134846 \\ 0.047409 \\ 0.682899 \end{pmatrix} = 0.991994 \cdot \begin{pmatrix} 0.135934 \\ 0.135934 \\ 0.047792 \\ 0.688411 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.8443 & 0.1975 \\ 1 & 1 & 2.8443 & 0.1975 \\ 0.3516 & 0.3516 & 1 & 0.0694 \\ 5.0643 & 5.0643 & 14.4044 & 1 \end{pmatrix},$$

Example 0.173.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/5 \\ 1 & 1 & 5 & 1/9 \\ 1/3 & 1/5 & 1 & 1/9 \\ 5 & 9 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2253, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.126562 \\ 0.133381 \\ 0.045286 \\ 0.694771 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9489 & 2.7947 & 0.1822 \\ 1.0539 & 1 & 2.9453 & 0.1920 \\ 0.3578 & 0.3395 & 1 & 0.0652 \\ 5.4896 & 5.2089 & 15.3417 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.132478 \\ 0.132478 \\ 0.044980 \\ 0.690065 \end{pmatrix} = 0.993230 \cdot \begin{pmatrix} 0.133381 \\ 0.133381 \\ 0.045286 \\ 0.694771 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 2.9453 & 0.1920 \\ 1 & 1 & 2.9453 & 0.1920 \\ 0.3395 & 0.3395 & 1 & 0.0652 \\ 5.2089 & 5.2089 & 15.3417 & 1 \end{pmatrix},$$

Example 0.174.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/5 \\ 1 & 1 & 6 & 1/7 \\ 1/3 & 1/6 & 1 & 1/9 \\ 5 & 7 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2095, \quad CR = 0.0790$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.131811 \\ 0.154713 \\ 0.044871 \\ 0.668605 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8520 & 2.9376 & 0.1971 \\ 1.1738 & 1 & 3.4480 & 0.2314 \\ 0.3404 & 0.2900 & 1 & 0.0671 \\ 5.0724 & 4.3216 & 14.9007 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.133466 \\ 0.154418 \\ 0.044785 \\ 0.667331 \end{pmatrix} = 0.998092 \cdot \begin{pmatrix} 0.133721 \\ 0.154713 \\ 0.044871 \\ 0.668605 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8643 & 2.9801 & 1/5 \\ 1.1570 & 1 & 3.4480 & 0.2314 \\ 0.3356 & 0.2900 & 1 & 0.0671 \\ 5 & 4.3216 & 14.9007 & 1 \end{pmatrix},$$

Example 0.175.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 3 & 1/5 \\ 1 & 1 & 6 & 1/8 \\ 1/3 & 1/6 & 1 & 1/9 \\ 5 & 8 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.127899 \\ 0.146951 \\ 0.043995 \\ 0.681155 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8704 & 2.9071 & 0.1878 \\ 1.1490 & 1 & 3.3402 & 0.2157 \\ 0.3440 & 0.2994 & 1 & 0.0646 \\ 5.3257 & 4.6353 & 15.4826 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.131447 \\ 0.146354 \\ 0.043816 \\ 0.678384 \end{pmatrix} = 0.995937 \cdot \begin{pmatrix} 0.131983 \\ 0.146951 \\ 0.043995 \\ 0.681155 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8981 & 3 & 0.1938 \\ 1.1134 & 1 & 3.3402 & 0.2157 \\ 1/3 & 0.2994 & 1 & 0.0646 \\ 5.1609 & 4.6352 & 15.4827 & 1 \end{pmatrix},$$

Example 0.176.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 6 \\ 1 & 1 & 6 & 4 \\ 1/4 & 1/6 & 1 & 2 \\ 1/6 & 1/4 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.405887 \\ 0.420345 \\ 0.101715 \\ 0.072053 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9656 & 3.9904 & 5.6331 \\ 1.0356 & 1 & 4.1326 & 5.8338 \\ 0.2506 & 0.2420 & 1 & 1.4117 \\ 0.1775 & 0.1714 & 0.7084 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.406464 \\ 0.419936 \\ 0.101616 \\ 0.071983 \end{pmatrix} = 0.999028 \cdot \begin{pmatrix} 0.406860 \\ 0.420345 \\ 0.101715 \\ 0.072053 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9679 & 4 & 5.6466 \\ 1.0331 & 1 & 4.1326 & 5.8338 \\ 1/4 & 0.2420 & 1 & 1.4117 \\ 0.1771 & 0.1714 & 0.7084 & 1 \end{pmatrix},$$

Example 0.177.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 6 \\ 1 & 1 & 7 & 4 \\ 1/4 & 1/7 & 1 & 1/3 \\ 1/6 & 1/4 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1964, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.416938 \\ 0.408107 \\ 0.062570 \\ 0.112385 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0216 & 6.6636 & 3.7099 \\ 0.9788 & 1 & 6.5224 & 3.6313 \\ 0.1501 & 0.1533 & 1 & 0.5567 \\ 0.2695 & 0.2754 & 1.7961 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.413288 \\ 0.413288 \\ 0.062022 \\ 0.111401 \end{pmatrix} = 0.991246 \cdot \begin{pmatrix} 0.416938 \\ 0.416938 \\ 0.062570 \\ 0.112385 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 6.6636 & 3.7099 \\ 1 & 1 & 6.6636 & 3.7099 \\ 0.1501 & 0.1501 & 1 & 0.5567 \\ 0.2695 & 0.2695 & 1.7962 & 1 \end{pmatrix},$$

Example 0.178.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 7 \\ 1 & 1 & 6 & 5 \\ 1/4 & 1/6 & 1 & 1/2 \\ 1/7 & 1/5 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1351, \quad CR = 0.0509$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.424412 \\ 0.414585 \\ 0.070342 \\ 0.090661 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0237 & 6.0335 & 4.6813 \\ 0.9768 & 1 & 5.8938 & 4.5729 \\ 0.1657 & 0.1697 & 1 & 0.7759 \\ 0.2136 & 0.2187 & 1.2889 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.421266 \\ 0.418925 \\ 0.069821 \\ 0.089989 \end{pmatrix} = 0.992586 \cdot \begin{pmatrix} 0.424412 \\ 0.422054 \\ 0.070342 \\ 0.090661 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0056 & 6.0335 & 4.6813 \\ 0.9944 & 1 & 6 & 4.6553 \\ 0.1657 & 1/6 & 1 & 0.7759 \\ 0.2136 & 0.2148 & 1.2889 & 1 \end{pmatrix},$$

Example 0.179.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 7 \\ 1 & 1 & 7 & 4 \\ 1/4 & 1/7 & 1 & 3 \\ 1/7 & 1/4 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2395, \quad CR = 0.0903$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.399406 \\ 0.431442 \\ 0.107211 \\ 0.061941 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9257 & 3.7254 & 6.4482 \\ 1.0802 & 1 & 4.0242 & 6.9654 \\ 0.2684 & 0.2485 & 1 & 1.7309 \\ 0.1551 & 0.1436 & 0.5777 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.416581 \\ 0.419104 \\ 0.104145 \\ 0.060169 \end{pmatrix} = 0.971403 \cdot \begin{pmatrix} 0.428845 \\ 0.431442 \\ 0.107211 \\ 0.061941 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9940 & 4 & 6.9235 \\ 1.0061 & 1 & 4.0242 & 6.9654 \\ 1/4 & 0.2485 & 1 & 1.7309 \\ 0.1444 & 0.1436 & 0.5777 & 1 \end{pmatrix},$$

Example 0.180.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 7 \\ 1 & 1 & 7 & 5 \\ 1/4 & 1/7 & 1 & 3 \\ 1/7 & 1/5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1793, \quad CR = 0.0676$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.395527 \\ 0.443409 \\ 0.104448 \\ 0.056616 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8920 & 3.7868 & 6.9861 \\ 1.1211 & 1 & 4.2453 & 7.8319 \\ 0.2641 & 0.2356 & 1 & 1.8448 \\ 0.1431 & 0.1277 & 0.5421 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.396002 \\ 0.443060 \\ 0.104366 \\ 0.056572 \end{pmatrix} = 0.999212 \cdot \begin{pmatrix} 0.396314 \\ 0.443409 \\ 0.104448 \\ 0.056616 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8938 & 3.7944 & 7 \\ 1.1188 & 1 & 4.2453 & 7.8318 \\ 0.2635 & 0.2356 & 1 & 1.8448 \\ 1/7 & 0.1277 & 0.5421 & 1 \end{pmatrix},$$

Example 0.181.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 7 \\ 1 & 1 & 7 & 5 \\ 1/4 & 1/7 & 1 & 1/3 \\ 1/7 & 1/5 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2453, \quad CR = 0.0925$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.421175 \\ 0.416917 \\ 0.061148 \\ 0.100760 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0102 & 6.8879 & 4.1800 \\ 0.9899 & 1 & 6.8182 & 4.1377 \\ 0.1452 & 0.1467 & 1 & 0.6069 \\ 0.2392 & 0.2417 & 1.6478 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.419389 \\ 0.419389 \\ 0.060888 \\ 0.100333 \end{pmatrix} = 0.995759 \cdot \begin{pmatrix} 0.421175 \\ 0.421175 \\ 0.061148 \\ 0.100760 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 6.8879 & 4.1800 \\ 1 & 1 & 6.8879 & 4.1800 \\ 0.1452 & 0.1452 & 1 & 0.6069 \\ 0.2392 & 0.2392 & 1.6478 & 1 \end{pmatrix},$$

Example 0.182.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 7 \\ 1 & 1 & 8 & 4 \\ 1/4 & 1/8 & 1 & 1/3 \\ 1/7 & 1/4 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2421, \quad CR = 0.0913$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.426790 \\ 0.408385 \\ 0.059486 \\ 0.105339 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0451 & 7.1747 & 4.0516 \\ 0.9569 & 1 & 6.8653 & 3.8768 \\ 0.1394 & 0.1457 & 1 & 0.5647 \\ 0.2468 & 0.2579 & 1.7708 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.421324 \\ 0.415962 \\ 0.058724 \\ 0.103990 \end{pmatrix} = 0.987193 \cdot \begin{pmatrix} 0.426790 \\ 0.421358 \\ 0.059486 \\ 0.105339 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0129 & 7.1747 & 4.0516 \\ 0.9873 & 1 & 7.0834 & 4 \\ 0.1394 & 0.1412 & 1 & 0.5647 \\ 0.2468 & 1/4 & 1.7708 & 1 \end{pmatrix},$$

Example 0.183.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 7 \\ 1 & 1 & 8 & 5 \\ 1/4 & 1/8 & 1 & 3 \\ 1/7 & 1/5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2174, \quad CR = 0.0820$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.387849 \\ 0.456188 \\ 0.100022 \\ 0.055941 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8502 & 3.8777 & 6.9331 \\ 1.1762 & 1 & 4.5609 & 8.1547 \\ 0.2579 & 0.2193 & 1 & 1.7880 \\ 0.1442 & 0.1226 & 0.5593 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.390130 \\ 0.454487 \\ 0.099649 \\ 0.055733 \end{pmatrix} = 0.996272 \cdot \begin{pmatrix} 0.391590 \\ 0.456188 \\ 0.100022 \\ 0.055941 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8584 & 3.9150 & 7 \\ 1.1650 & 1 & 4.5609 & 8.1547 \\ 0.2554 & 0.2193 & 1 & 1.7880 \\ 1/7 & 0.1226 & 0.5593 & 1 \end{pmatrix},$$

Example 0.184.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 7 \\ 1 & 1 & 9 & 5 \\ 1/4 & 1/9 & 1 & 3 \\ 1/7 & 1/5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2553, \quad CR = 0.0963$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.380765 \\ 0.467773 \\ 0.096167 \\ 0.055296 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8140 & 3.9594 & 6.8860 \\ 1.2285 & 1 & 4.8642 & 8.4595 \\ 0.2526 & 0.2056 & 1 & 1.7391 \\ 0.1452 & 0.1182 & 0.5750 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.383172 \\ 0.465954 \\ 0.095793 \\ 0.055081 \end{pmatrix} = 0.996111 \cdot \begin{pmatrix} 0.384668 \\ 0.467773 \\ 0.096167 \\ 0.055296 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8223 & 4 & 6.9565 \\ 1.2160 & 1 & 4.8642 & 8.4595 \\ 1/4 & 0.2056 & 1 & 1.7391 \\ 0.1437 & 0.1182 & 0.5750 & 1 \end{pmatrix},$$

Example 0.185.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 8 \\ 1 & 1 & 6 & 5 \\ 1/4 & 1/6 & 1 & 3 \\ 1/8 & 1/5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1406, \quad CR = 0.0530$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.412477 \\ 0.424777 \\ 0.107833 \\ 0.054913 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9710 & 3.8252 & 7.5114 \\ 1.0298 & 1 & 3.9392 & 7.7354 \\ 0.2614 & 0.2539 & 1 & 1.9637 \\ 0.1331 & 0.1293 & 0.5092 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.419616 \\ 0.419616 \\ 0.106522 \\ 0.054246 \end{pmatrix} = 0.987850 \cdot \begin{pmatrix} 0.424777 \\ 0.424777 \\ 0.107833 \\ 0.054913 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 3.9392 & 7.7354 \\ 1 & 1 & 3.9392 & 7.7354 \\ 0.2539 & 0.2539 & 1 & 1.9637 \\ 0.1293 & 0.1293 & 0.5092 & 1 \end{pmatrix},$$

Example 0.186.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 8 \\ 1 & 1 & 6 & 5 \\ 1/4 & 1/6 & 1 & 4 \\ 1/8 & 1/5 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2162, \quad CR = 0.0815$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.406007 \\ 0.425187 \\ 0.117456 \\ 0.051350 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9549 & 3.4567 & 7.9067 \\ 1.0472 & 1 & 3.6200 & 8.2802 \\ 0.2893 & 0.2762 & 1 & 2.2874 \\ 0.1265 & 0.1208 & 0.4372 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.408840 \\ 0.423159 \\ 0.116896 \\ 0.051105 \end{pmatrix} = 0.995231 \cdot \begin{pmatrix} 0.410799 \\ 0.425187 \\ 0.117456 \\ 0.051350 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9662 & 3.4975 & 8 \\ 1.0350 & 1 & 3.6200 & 8.2802 \\ 0.2859 & 0.2762 & 1 & 2.2874 \\ 1/8 & 0.1208 & 0.4372 & 1 \end{pmatrix},$$

Example 0.187.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 8 \\ 1 & 1 & 6 & 5 \\ 1/4 & 1/6 & 1 & 1/2 \\ 1/8 & 1/5 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.436310 \\ 0.407124 \\ 0.069625 \\ 0.086941 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0717 & 6.2665 & 5.0185 \\ 0.9331 & 1 & 5.8474 & 4.6828 \\ 0.1596 & 0.1710 & 1 & 0.8008 \\ 0.1993 & 0.2135 & 1.2487 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.431721 \\ 0.413359 \\ 0.068893 \\ 0.086027 \end{pmatrix} = 0.989484 \cdot \begin{pmatrix} 0.436310 \\ 0.417752 \\ 0.069625 \\ 0.086941 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0444 & 6.2665 & 5.0185 \\ 0.9575 & 1 & 6 & 4.8050 \\ 0.1596 & 1/6 & 1 & 0.8008 \\ 0.1993 & 0.2081 & 1.2487 & 1 \end{pmatrix},$$

Example 0.188.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 8 \\ 1 & 1 & 6 & 6 \\ 1/4 & 1/6 & 1 & 3 \\ 1/8 & 1/6 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.408276 \\ 0.434863 \\ 0.105705 \\ 0.051157 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9389 & 3.8624 & 7.9808 \\ 1.0651 & 1 & 4.1139 & 8.5006 \\ 0.2589 & 0.2431 & 1 & 2.0663 \\ 0.1253 & 0.1176 & 0.4840 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.408854 \\ 0.434438 \\ 0.105601 \\ 0.051107 \end{pmatrix} = 0.999024 \cdot \begin{pmatrix} 0.409254 \\ 0.434863 \\ 0.105705 \\ 0.051157 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9411 & 3.8717 & 8 \\ 1.0626 & 1 & 4.1140 & 8.5006 \\ 0.2583 & 0.2431 & 1 & 2.0663 \\ 1/8 & 0.1176 & 0.4840 & 1 \end{pmatrix},$$

Example 0.189.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 8 \\ 1 & 1 & 7 & 5 \\ 1/4 & 1/7 & 1 & 3 \\ 1/8 & 1/5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1782, \quad CR = 0.0672$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.404075 \\ 0.438878 \\ 0.102758 \\ 0.054288 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9207 & 3.9323 & 7.4431 \\ 1.0861 & 1 & 4.2710 & 8.0842 \\ 0.2543 & 0.2341 & 1 & 1.8928 \\ 0.1344 & 0.1237 & 0.5283 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.408192 \\ 0.435846 \\ 0.102048 \\ 0.053914 \end{pmatrix} = 0.993091 \cdot \begin{pmatrix} 0.411032 \\ 0.438878 \\ 0.102758 \\ 0.054288 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9366 & 4 & 7.5712 \\ 1.0677 & 1 & 4.2710 & 8.0842 \\ 1/4 & 0.2341 & 1 & 1.8928 \\ 0.1321 & 0.1237 & 0.5283 & 1 \end{pmatrix},$$

Example 0.190.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 8 \\ 1 & 1 & 7 & 5 \\ 1/4 & 1/7 & 1 & 4 \\ 1/8 & 1/5 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2610, \quad CR = 0.0984$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.397025 \\ 0.440138 \\ 0.112034 \\ 0.050802 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9020 & 3.5438 & 7.8151 \\ 1.1086 & 1 & 3.9286 & 8.6638 \\ 0.2822 & 0.2545 & 1 & 2.2053 \\ 0.1280 & 0.1154 & 0.4535 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.402636 \\ 0.436043 \\ 0.110992 \\ 0.050329 \end{pmatrix} = 0.990695 \cdot \begin{pmatrix} 0.406418 \\ 0.440138 \\ 0.112034 \\ 0.050802 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9234 & 3.6276 & 8 \\ 1.0830 & 1 & 3.9286 & 8.6638 \\ 0.2757 & 0.2545 & 1 & 2.2053 \\ 1/8 & 0.1154 & 0.4535 & 1 \end{pmatrix},$$

Example 0.191.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 8 \\ 1 & 1 & 7 & 5 \\ 1/4 & 1/7 & 1 & 1/2 \\ 1/8 & 1/5 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1665, \quad CR = 0.0628$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.431024 \\ \mathbf{0.417383} \\ 0.066325 \\ 0.085269 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{1.0327} & 6.4987 & 5.0549 \\ \mathbf{0.9684} & 1 & \mathbf{6.2930} & \mathbf{4.8949} \\ 0.1539 & \mathbf{0.1589} & 1 & 0.7778 \\ 0.1978 & \mathbf{0.2043} & 1.2856 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.427195 \\ 0.422558 \\ 0.065735 \\ 0.084512 \end{pmatrix} = 0.991118 \cdot \begin{pmatrix} 0.431024 \\ \mathbf{0.426345} \\ 0.066325 \\ 0.085269 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{1.0110} & 6.4987 & 5.0549 \\ \mathbf{0.9891} & 1 & \mathbf{6.4282} & \mathbf{5} \\ 0.1539 & \mathbf{0.1556} & 1 & 0.7778 \\ 0.1978 & \mathbf{1/5} & 1.2856 & 1 \end{pmatrix},$$

Example 0.192.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 8 \\ 1 & 1 & 7 & 6 \\ 1/4 & 1/7 & 1 & 3 \\ 1/8 & 1/6 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1365, \quad CR = 0.0515$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.400162 \\ 0.448729 \\ 0.100623 \\ 0.050486 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8918 & 3.9769 & 7.9262 \\ 1.1214 & 1 & 4.4595 & 8.8882 \\ 0.2515 & 0.2242 & 1 & 1.9931 \\ 0.1262 & 0.1125 & 0.5017 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.401556 \\ 0.447687 \\ 0.100389 \\ 0.050369 \end{pmatrix} = 0.997676 \cdot \begin{pmatrix} 0.402491 \\ 0.448729 \\ 0.100623 \\ 0.050486 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8970 & 4 & 7.9723 \\ 1.1149 & 1 & 4.4595 & 8.8882 \\ 1/4 & 0.2242 & 1 & 1.9931 \\ 0.1254 & 0.1125 & 0.5017 & 1 \end{pmatrix},$$

Example 0.193.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 9 \\ 1 & 1 & 5 & 7 \\ 1/4 & 1/5 & 1 & 3 \\ 1/9 & 1/7 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0490, \quad CR = 0.0185$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.420396 \\ 0.423969 \\ 0.108579 \\ 0.047055 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9916 & 3.8718 & 8.9341 \\ 1.0085 & 1 & 3.9047 & 9.0100 \\ 0.2583 & 0.2561 & 1 & 2.3075 \\ 0.1119 & 0.1110 & 0.4334 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.422187 \\ 0.422659 \\ 0.108244 \\ 0.046910 \end{pmatrix} = 0.996910 \cdot \begin{pmatrix} 0.423496 \\ 0.423969 \\ 0.108579 \\ 0.047055 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9989 & 3.9003 & 9 \\ 1.0011 & 1 & 3.9047 & 9.0101 \\ 0.2564 & 0.2561 & 1 & 2.3075 \\ 1/9 & 0.1110 & 0.4334 & 1 \end{pmatrix},$$

Example 0.194.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 9 \\ 1 & 1 & 6 & 5 \\ 1/4 & 1/6 & 1 & 3 \\ 1/9 & 1/5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1433, \quad CR = 0.0540$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.420352 \\ 0.420566 \\ 0.106201 \\ 0.052880 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9995 & 3.9581 & 7.9491 \\ 1.0005 & 1 & 3.9601 & 7.9532 \\ 0.2526 & 0.2525 & 1 & 2.0083 \\ 0.1258 & 0.1257 & 0.4979 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.420476 \\ 0.420476 \\ 0.106179 \\ 0.052869 \end{pmatrix} = 0.999785 \cdot \begin{pmatrix} 0.420566 \\ 0.420566 \\ 0.106201 \\ 0.052880 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 3.9601 & 7.9531 \\ 1 & 1 & 3.9601 & 7.9531 \\ 0.2525 & 0.2525 & 1 & 2.0083 \\ 0.1257 & 0.1257 & 0.4979 & 1 \end{pmatrix},$$

Example 0.195.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 9 \\ 1 & 1 & 6 & 5 \\ 1/4 & 1/6 & 1 & 4 \\ 1/9 & 1/5 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2146, \quad CR = 0.0809$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.413512 \\ 0.421389 \\ 0.115599 \\ 0.049500 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9813 & 3.5771 & 8.3538 \\ 1.0191 & 1 & 3.6453 & 8.5129 \\ 0.2796 & 0.2743 & 1 & 2.3353 \\ 0.1197 & 0.1175 & 0.4282 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.418096 \\ 0.418096 \\ 0.114696 \\ 0.049113 \end{pmatrix} = 0.992184 \cdot \begin{pmatrix} 0.421389 \\ 0.421389 \\ 0.115599 \\ 0.049500 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 3.6453 & 8.5129 \\ 1 & 1 & 3.6453 & 8.5129 \\ 0.2743 & 0.2743 & 1 & 2.3353 \\ 0.1175 & 0.1175 & 0.4282 & 1 \end{pmatrix},$$

Example 0.196.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 9 \\ 1 & 1 & 6 & 5 \\ 1/4 & 1/6 & 1 & 1/2 \\ 1/9 & 1/5 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1966, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.447148 \\ 0.400209 \\ 0.068931 \\ 0.083711 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1173 & 6.4869 & 5.3416 \\ 0.8950 & 1 & 5.8059 & 4.7808 \\ 0.1542 & 0.1722 & 1 & 0.8234 \\ 0.1872 & 0.2092 & 1.2144 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.441244 \\ 0.408129 \\ 0.068021 \\ 0.082606 \end{pmatrix} = 0.986796 \cdot \begin{pmatrix} 0.447148 \\ 0.413590 \\ 0.068931 \\ 0.083711 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0811 & 6.4868 & 5.3416 \\ 0.9250 & 1 & 6 & 4.9407 \\ 0.1542 & 1/6 & 1 & 0.8234 \\ 0.1872 & 0.2024 & 1.2144 & 1 \end{pmatrix},$$

Example 0.197.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 9 \\ 1 & 1 & 6 & 6 \\ 1/4 & 1/6 & 1 & 3 \\ 1/9 & 1/6 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.415875 \\ 0.430689 \\ 0.104218 \\ 0.049218 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9656 & 3.9904 & 8.4497 \\ 1.0356 & 1 & 4.1326 & 8.7507 \\ 0.2506 & 0.2420 & 1 & 2.1175 \\ 0.1183 & 0.1143 & 0.4723 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.416457 \\ 0.430260 \\ 0.104114 \\ 0.049169 \end{pmatrix} = 0.999004 \cdot \begin{pmatrix} 0.416872 \\ 0.430689 \\ 0.104218 \\ 0.049218 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9679 & 4 & 8.4700 \\ 1.0331 & 1 & 4.1326 & 8.7507 \\ 1/4 & 0.2420 & 1 & 2.1175 \\ 0.1181 & 0.1143 & 0.4723 & 1 \end{pmatrix},$$

Example 0.198.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 9 \\ 1 & 1 & 6 & 6 \\ 1/4 & 1/6 & 1 & 4 \\ 1/9 & 1/6 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.409822 \\ 0.431018 \\ 0.113157 \\ 0.046002 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9508 & 3.6217 & 8.9088 \\ 1.0517 & 1 & 3.8090 & 9.3695 \\ 0.2761 & 0.2625 & 1 & 2.4598 \\ 0.1122 & 0.1067 & 0.4065 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.412289 \\ 0.429217 \\ 0.112684 \\ 0.045810 \end{pmatrix} = 0.995821 \cdot \begin{pmatrix} 0.414019 \\ 0.431018 \\ 0.113157 \\ 0.046002 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9606 & 3.6588 & 9 \\ 1.0411 & 1 & 3.8090 & 9.3695 \\ 0.2733 & 0.2625 & 1 & 2.4598 \\ 1/9 & 0.1067 & 0.4065 & 1 \end{pmatrix},$$

Example 0.199.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 9 \\ 1 & 1 & 7 & 5 \\ 1/4 & 1/7 & 1 & 4 \\ 1/9 & 1/5 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2594, \quad CR = 0.0978$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.404518 \\ 0.436172 \\ 0.110296 \\ 0.049014 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9274 & 3.6676 & 8.2531 \\ 1.0782 & 1 & 3.9546 & 8.8989 \\ 0.2727 & 0.2529 & 1 & 2.2503 \\ 0.1212 & 0.1124 & 0.4444 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.422789 \\ 0.422789 \\ 0.106911 \\ 0.047510 \end{pmatrix} = 0.969318 \cdot \begin{pmatrix} 0.436172 \\ 0.436172 \\ 0.110296 \\ 0.049014 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 3.9546 & 8.8990 \\ 1 & 1 & 3.9546 & 8.8990 \\ 0.2529 & 0.2529 & 1 & 2.2503 \\ 0.1124 & 0.1124 & 0.4444 & 1 \end{pmatrix},$$

Example 0.200.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 9 \\ 1 & 1 & 7 & 5 \\ 1/4 & 1/7 & 1 & 1/2 \\ 1/9 & 1/5 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1975, \quad CR = 0.0745$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.441726 \\ 0.410432 \\ 0.065716 \\ 0.082126 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0762 & 6.7217 & 5.3787 \\ 0.9292 & 1 & 6.2455 & 4.9976 \\ 0.1488 & 0.1601 & 1 & 0.8002 \\ 0.1859 & 0.2001 & 1.2497 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.441639 \\ 0.410548 \\ 0.065703 \\ 0.082110 \end{pmatrix} = 0.999804 \cdot \begin{pmatrix} 0.441726 \\ 0.410629 \\ 0.065716 \\ 0.082126 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0757 & 6.7218 & 5.3787 \\ 0.9296 & 1 & 6.2486 & 5 \\ 0.1488 & 0.1600 & 1 & 0.8002 \\ 0.1859 & 1/5 & 1.2497 & 1 \end{pmatrix},$$

Example 0.201.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 9 \\ 1 & 1 & 7 & 6 \\ 1/4 & 1/7 & 1 & 4 \\ 1/9 & 1/6 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2066, \quad CR = 0.0779$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.401104 \\ 0.445587 \\ 0.107842 \\ 0.045467 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9002 & 3.7194 & 8.8218 \\ 1.1109 & 1 & 4.1319 & 9.8002 \\ 0.2689 & 0.2420 & 1 & 2.3719 \\ 0.1134 & 0.1020 & 0.4216 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.405915 \\ 0.442008 \\ 0.106975 \\ 0.045102 \end{pmatrix} = 0.991969 \cdot \begin{pmatrix} 0.409202 \\ 0.445587 \\ 0.107842 \\ 0.045467 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9183 & 3.7945 & 9 \\ 1.0889 & 1 & 4.1319 & 9.8003 \\ 0.2635 & 0.2420 & 1 & 2.3719 \\ 1/9 & 0.1020 & 0.4216 & 1 \end{pmatrix},$$

Example 0.202.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 9 \\ 1 & 1 & 7 & 6 \\ 1/4 & 1/7 & 1 & 1/2 \\ 1/9 & 1/6 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1964, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.433165 \\ 0.423990 \\ 0.065005 \\ 0.077839 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0216 & 6.6636 & 5.5649 \\ 0.9788 & 1 & 6.5224 & 5.4470 \\ 0.1501 & 0.1533 & 1 & 0.8351 \\ 0.1797 & 0.1836 & 1.1974 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.429227 \\ 0.429227 \\ 0.064414 \\ 0.077132 \end{pmatrix} = 0.990908 \cdot \begin{pmatrix} 0.433165 \\ 0.433165 \\ 0.065005 \\ 0.077839 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 6.6636 & 5.5649 \\ 1 & 1 & 6.6636 & 5.5649 \\ 0.1501 & 0.1501 & 1 & 0.8351 \\ 0.1797 & 0.1797 & 1.1974 & 1 \end{pmatrix},$$

Example 0.203.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 9 \\ 1 & 1 & 8 & 6 \\ 1/4 & 1/8 & 1 & 4 \\ 1/9 & 1/6 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.393105 \\ 0.458648 \\ 0.103299 \\ 0.044948 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8571 & 3.8055 & 8.7457 \\ 1.1667 & 1 & 4.4400 & 10.2039 \\ 0.2628 & 0.2252 & 1 & 2.2982 \\ 0.1143 & 0.0980 & 0.4351 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.399965 \\ 0.453463 \\ 0.102131 \\ 0.044441 \end{pmatrix} = 0.988696 \cdot \begin{pmatrix} 0.404538 \\ 0.458648 \\ 0.103299 \\ 0.044948 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8820 & 3.9162 & 9 \\ 1.1338 & 1 & 4.4400 & 10.2038 \\ 0.2553 & 0.2252 & 1 & 2.2981 \\ 1/9 & 0.0980 & 0.4351 & 1 \end{pmatrix},$$

Example 0.204.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/2 \\ 1 & 1 & 6 & 1/3 \\ 1/4 & 1/6 & 1 & 1/5 \\ 2 & 3 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1406, \quad CR = 0.0530$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.228749 \\ 0.239205 \\ 0.060907 \\ 0.471139 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9563 & 3.7557 & 0.4855 \\ 1.0457 & 1 & 3.9274 & 0.5077 \\ 0.2663 & 0.2546 & 1 & 0.1293 \\ 2.0596 & 1.9696 & 7.7354 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.233974 \\ 0.237584 \\ 0.060494 \\ 0.467948 \end{pmatrix} = 0.993222 \cdot \begin{pmatrix} 0.235571 \\ 0.239205 \\ 0.060907 \\ 0.471139 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9848 & 3.8677 & 1/2 \\ 1.0154 & 1 & 3.9274 & 0.5077 \\ 0.2586 & 0.2546 & 1 & 0.1293 \\ 2 & 1.9696 & 7.7354 & 1 \end{pmatrix},$$

Example 0.205.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/2 \\ 1 & 1 & 6 & 1/3 \\ 1/4 & 1/6 & 1 & 1/6 \\ 2 & 3 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.226425 \\ 0.234490 \\ 0.056742 \\ 0.482342 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9656 & 3.9904 & 0.4694 \\ 1.0356 & 1 & 4.1326 & 0.4861 \\ 0.2506 & 0.2420 & 1 & 0.1176 \\ 2.1303 & 2.0570 & 8.5006 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.226845 \\ 0.234364 \\ 0.056711 \\ 0.482080 \end{pmatrix} = 0.999460 \cdot \begin{pmatrix} 0.226967 \\ 0.234490 \\ 0.056742 \\ 0.482342 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9679 & 4 & 0.4706 \\ 1.0331 & 1 & 4.1326 & 0.4862 \\ 1/4 & 0.2420 & 1 & 0.1176 \\ 2.1252 & 2.0570 & 8.5006 & 1 \end{pmatrix},$$

Example 0.206.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/2 \\ 1 & 1 & 7 & 1/3 \\ 1/4 & 1/7 & 1 & 1/5 \\ 2 & 3 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1782, \quad CR = 0.0672$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.225219 \\ 0.248434 \\ 0.058335 \\ 0.468012 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9066 & 3.8608 & 0.4812 \\ 1.1031 & 1 & 4.2587 & 0.5308 \\ 0.2590 & 0.2348 & 1 & 0.1246 \\ 2.0780 & 1.8838 & 8.0228 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.231460 \\ 0.246434 \\ 0.057865 \\ 0.464241 \end{pmatrix} = 0.991948 \cdot \begin{pmatrix} 0.233339 \\ 0.248434 \\ 0.058335 \\ 0.468012 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9392 & 4 & 0.4986 \\ 1.0647 & 1 & 4.2588 & 0.5308 \\ 1/4 & 0.2348 & 1 & 0.1246 \\ 2.0057 & 1.8838 & 8.0228 & 1 \end{pmatrix},$$

Example 0.207.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/2 \\ 1 & 1 & 7 & 1/4 \\ 1/4 & 1/7 & 1 & 1/5 \\ 2 & 4 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2610, \quad CR = 0.0984$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.216358 \\ 0.227314 \\ 0.057160 \\ 0.499168 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9518 & 3.7851 & 0.4334 \\ 1.0506 & 1 & 3.9768 & 0.4554 \\ 0.2642 & 0.2515 & 1 & 0.1145 \\ 2.3071 & 2.1959 & 8.7328 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.224851 \\ 0.224851 \\ 0.056540 \\ 0.493758 \end{pmatrix} = 0.989163 \cdot \begin{pmatrix} 0.227314 \\ 0.227314 \\ 0.057160 \\ 0.499168 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 3.9768 & 0.4554 \\ 1 & 1 & 3.9768 & 0.4554 \\ 0.2515 & 0.2515 & 1 & 0.1145 \\ 2.1959 & 2.1959 & 8.7329 & 1 \end{pmatrix},$$

Example 0.208.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/2 \\ 1 & 1 & 8 & 1/3 \\ 1/4 & 1/8 & 1 & 1/5 \\ 2 & 3 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2162, \quad CR = 0.0815$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.221995 \\ 0.256888 \\ 0.056154 \\ 0.464964 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8642 & 3.9534 & 0.4774 \\ 1.1572 & 1 & 4.5747 & 0.5525 \\ 0.2530 & 0.2186 & 1 & 0.1208 \\ 2.0945 & 1.8100 & 8.2802 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.224027 \\ 0.256218 \\ 0.056007 \\ 0.463748 \end{pmatrix} = 0.997392 \cdot \begin{pmatrix} 0.224613 \\ 0.256888 \\ 0.056154 \\ 0.464964 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8744 & 4 & 0.4831 \\ 1.1437 & 1 & 4.5748 & 0.5525 \\ 1/4 & 0.2186 & 1 & 0.1208 \\ 2.0701 & 1.8100 & 8.2802 & 1 \end{pmatrix},$$

Example 0.209.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/3 \\ 1 & 1 & 5 & 1/4 \\ 1/4 & 1/5 & 1 & 1/9 \\ 3 & 4 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0539, \quad CR = 0.0203$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.188142 \\ 0.188327 \\ 0.048652 \\ 0.574879 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9990 & 3.8671 & 0.3273 \\ 1.0010 & 1 & 3.8709 & 0.3276 \\ 0.2586 & 0.2583 & 1 & 0.0846 \\ 3.0556 & 3.0526 & 11.8161 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.188292 \\ 0.188292 \\ 0.048643 \\ 0.574773 \end{pmatrix} = 0.999814 \cdot \begin{pmatrix} 0.188327 \\ 0.188327 \\ 0.048652 \\ 0.574879 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 3.8709 & 0.3276 \\ 1 & 1 & 3.8709 & 0.3276 \\ 0.2583 & 0.2583 & 1 & 0.0846 \\ 3.0526 & 3.0526 & 11.8162 & 1 \end{pmatrix},$$

Example 0.210.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/3 \\ 1 & 1 & 6 & 1/4 \\ 1/4 & 1/6 & 1 & 1/8 \\ 3 & 4 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.187575 \\ 0.199789 \\ 0.048564 \\ 0.564072 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9389 & 3.8624 & 0.3325 \\ 1.0651 & 1 & 4.1139 & 0.3542 \\ 0.2589 & 0.2431 & 1 & 0.0861 \\ 3.0072 & 2.8233 & 11.6150 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.187939 \\ 0.199700 \\ 0.048542 \\ 0.563818 \end{pmatrix} = 0.999554 \cdot \begin{pmatrix} 0.188023 \\ 0.199789 \\ 0.048564 \\ 0.564072 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9411 & 3.8717 & 1/3 \\ 1.0626 & 1 & 4.1139 & 0.3542 \\ 0.2583 & 0.2431 & 1 & 0.0861 \\ 3 & 2.8233 & 11.6150 & 1 \end{pmatrix},$$

Example 0.211.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/3 \\ 1 & 1 & 6 & 1/5 \\ 1/4 & 1/6 & 1 & 1/6 \\ 3 & 5 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.184824 \\ 0.192245 \\ 0.053638 \\ 0.569293 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9614 & 3.4458 & 0.3247 \\ 1.0401 & 1 & 3.5841 & 0.3377 \\ 0.2902 & 0.2790 & 1 & 0.0942 \\ 3.0802 & 2.9613 & 10.6136 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.188832 \\ 0.191299 \\ 0.053374 \\ 0.566495 \end{pmatrix} = 0.995080 \cdot \begin{pmatrix} 0.189766 \\ 0.192245 \\ 0.053638 \\ 0.569293 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9871 & 3.5379 & 1/3 \\ 1.0131 & 1 & 3.5841 & 0.3377 \\ 0.2827 & 0.2790 & 1 & 0.0942 \\ 3 & 2.9613 & 10.6136 & 1 \end{pmatrix},$$

Example 0.212.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/3 \\ 1 & 1 & 6 & 1/5 \\ 1/4 & 1/6 & 1 & 1/7 \\ 3 & 5 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1832, \quad CR = 0.0691$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.182835 \\ 0.188390 \\ 0.050189 \\ 0.578586 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9705 & 3.6429 & 0.3160 \\ 1.0304 & 1 & 3.7536 & 0.3256 \\ 0.2745 & 0.2664 & 1 & 0.0867 \\ 3.1645 & 3.0712 & 11.5282 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.187349 \\ 0.187349 \\ 0.049912 \\ 0.575391 \end{pmatrix} = 0.994474 \cdot \begin{pmatrix} 0.188390 \\ 0.188390 \\ 0.050189 \\ 0.578586 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 3.7536 & 0.3256 \\ 1 & 1 & 3.7536 & 0.3256 \\ 0.2664 & 0.2664 & 1 & 0.0867 \\ 3.0712 & 3.0712 & 11.5282 & 1 \end{pmatrix},$$

Example 0.213.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/3 \\ 1 & 1 & 6 & 1/5 \\ 1/4 & 1/6 & 1 & 1/8 \\ 3 & 5 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1502, \quad CR = 0.0566$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.181021 \\ 0.185034 \\ 0.047428 \\ 0.586517 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9783 & 3.8167 & 0.3086 \\ 1.0222 & 1 & 3.9013 & 0.3155 \\ 0.2620 & 0.2563 & 1 & 0.0809 \\ 3.2401 & 3.1698 & 12.3664 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.184294 \\ 0.184294 \\ 0.047239 \\ 0.584174 \end{pmatrix} = 0.996001 \cdot \begin{pmatrix} 0.185034 \\ 0.185034 \\ 0.047428 \\ 0.586517 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 3.9013 & 0.3155 \\ 1 & 1 & 3.9013 & 0.3155 \\ 0.2563 & 0.2563 & 1 & 0.0809 \\ 3.1698 & 3.1698 & 12.3664 & 1 \end{pmatrix},$$

Example 0.214.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/3 \\ 1 & 1 & 6 & 1/5 \\ 1/4 & 1/6 & 1 & 1/9 \\ 3 & 5 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1252, \quad CR = 0.0472$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.179342 \\ 0.182052 \\ 0.045154 \\ 0.593452 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9851 & 3.9718 & 0.3022 \\ 1.0151 & 1 & 4.0318 & 0.3068 \\ 0.2518 & 0.2480 & 1 & 0.0761 \\ 3.3091 & 3.2598 & 13.1428 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.180386 \\ 0.181821 \\ 0.045096 \\ 0.592697 \end{pmatrix} = 0.998731 \cdot \begin{pmatrix} 0.180615 \\ 0.182052 \\ 0.045154 \\ 0.593452 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9921 & 4 & 0.3043 \\ 1.0080 & 1 & 4.0318 & 0.3068 \\ 1/4 & 0.2480 & 1 & 0.0761 \\ 3.2857 & 3.2598 & 13.1429 & 1 \end{pmatrix},$$

Example 0.215.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/3 \\ 1 & 1 & 7 & 1/4 \\ 1/4 & 1/7 & 1 & 1/8 \\ 3 & 4 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1365, \quad CR = 0.0515$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.185159 \\ 0.207632 \\ 0.046559 \\ 0.560649 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8918 & 3.9769 & 0.3303 \\ 1.1214 & 1 & 4.4595 & 0.3703 \\ 0.2515 & 0.2242 & 1 & 0.0830 \\ 3.0279 & 2.7002 & 12.0416 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.186036 \\ 0.207408 \\ 0.046509 \\ 0.560047 \end{pmatrix} = 0.998921 \cdot \begin{pmatrix} 0.186237 \\ 0.207632 \\ 0.046559 \\ 0.560649 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8970 & 4 & 0.3322 \\ 1.1149 & 1 & 4.4595 & 0.3703 \\ 1/4 & 0.2242 & 1 & 0.0830 \\ 3.0104 & 2.7002 & 12.0417 & 1 \end{pmatrix},$$

Example 0.216.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/3 \\ 1 & 1 & 7 & 1/5 \\ 1/4 & 1/7 & 1 & 1/7 \\ 3 & 5 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2251, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.180006 \\ 0.196018 \\ 0.048143 \\ 0.575833 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9183 & 3.7390 & 0.3126 \\ 1.0890 & 1 & 4.0716 & 0.3404 \\ 0.2675 & 0.2456 & 1 & 0.0836 \\ 3.1990 & 2.9377 & 11.9608 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.189680 \\ 0.193705 \\ 0.047575 \\ 0.569039 \end{pmatrix} = 0.988202 \cdot \begin{pmatrix} 0.191945 \\ 0.196018 \\ 0.048143 \\ 0.575833 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9792 & 3.9870 & 1/3 \\ 1.0212 & 1 & 4.0716 & 0.3404 \\ 0.2508 & 0.2456 & 1 & 0.0836 \\ 3 & 2.9377 & 11.9608 & 1 \end{pmatrix},$$

Example 0.217.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/3 \\ 1 & 1 & 7 & 1/5 \\ 1/4 & 1/7 & 1 & 1/8 \\ 3 & 5 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1888, \quad CR = 0.0712$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.178416 \\ 0.192416 \\ 0.045488 \\ 0.583680 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9272 & 3.9222 & 0.3057 \\ 1.0785 & 1 & 4.2300 & 0.3297 \\ 0.2550 & 0.2364 & 1 & 0.0779 \\ 3.2715 & 3.0334 & 12.8315 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.181312 \\ 0.191737 \\ 0.045328 \\ 0.581623 \end{pmatrix} = 0.996470 \cdot \begin{pmatrix} 0.181954 \\ 0.192416 \\ 0.045488 \\ 0.583680 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9456 & 4 & 0.3117 \\ 1.0575 & 1 & 4.2300 & 0.3297 \\ 1/4 & 0.2364 & 1 & 0.0779 \\ 3.2079 & 3.0334 & 12.8315 & 1 \end{pmatrix},$$

Example 0.218.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/3 \\ 1 & 1 & 7 & 1/6 \\ 1/4 & 1/7 & 1 & 1/8 \\ 3 & 6 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2421, \quad CR = 0.0913$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.172448 \\ 0.180220 \\ 0.044481 \\ 0.602851 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9569 & 3.8769 & 0.2861 \\ 1.0451 & 1 & 4.0516 & 0.2989 \\ 0.2579 & 0.2468 & 1 & 0.0738 \\ 3.4958 & 3.3451 & 13.5529 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.176956 \\ 0.179238 \\ 0.044239 \\ 0.599567 \end{pmatrix} = 0.994552 \cdot \begin{pmatrix} 0.177925 \\ 0.180220 \\ 0.044481 \\ 0.602851 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9873 & 4 & 0.2951 \\ 1.0129 & 1 & 4.0516 & 0.2989 \\ 1/4 & 0.2468 & 1 & 0.0738 \\ 3.3882 & 3.3451 & 13.5529 & 1 \end{pmatrix},$$

Example 0.219.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/4 \\ 1 & 1 & 6 & 1/6 \\ 1/4 & 1/6 & 1 & 1/9 \\ 4 & 6 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.157016 \\ 0.165136 \\ 0.043354 \\ 0.634494 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9508 & 3.6217 & 0.2475 \\ 1.0517 & 1 & 3.8090 & 0.2603 \\ 0.2761 & 0.2625 & 1 & 0.0683 \\ 4.0410 & 3.8422 & 14.6352 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.158369 \\ 0.164871 \\ 0.043284 \\ 0.633476 \end{pmatrix} = 0.998392 \cdot \begin{pmatrix} 0.158624 \\ 0.165136 \\ 0.043354 \\ 0.634494 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9606 & 3.6588 & 1/4 \\ 1.0411 & 1 & 3.8090 & 0.2603 \\ 0.2733 & 0.2625 & 1 & 0.0683 \\ 4 & 3.8423 & 14.6352 & 1 \end{pmatrix},$$

Example 0.220.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/4 \\ 1 & 1 & 6 & 1/7 \\ 1/4 & 1/6 & 1 & 1/8 \\ 4 & 7 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2421, \quad CR = 0.0913$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.153767 \\ 0.158652 \\ 0.044795 \\ 0.642786 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9692 & 3.4326 & 0.2392 \\ 1.0318 & 1 & 3.5417 & 0.2468 \\ 0.2913 & 0.2824 & 1 & 0.0697 \\ 4.1803 & 4.0516 & 14.3494 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.157880 \\ 0.157880 \\ 0.044578 \\ 0.639662 \end{pmatrix} = 0.995135 \cdot \begin{pmatrix} 0.158652 \\ 0.158652 \\ 0.044795 \\ 0.642786 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 3.5417 & 0.2468 \\ 1 & 1 & 3.5417 & 0.2468 \\ 0.2824 & 0.2824 & 1 & 0.0697 \\ 4.0516 & 4.0516 & 14.3494 & 1 \end{pmatrix},$$

Example 0.221.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/4 \\ 1 & 1 & 6 & 1/7 \\ 1/4 & 1/6 & 1 & 1/9 \\ 4 & 7 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2066, \quad CR = 0.0779$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.152230 \\ 0.155884 \\ 0.042474 \\ 0.649412 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9766 & 3.5841 & 0.2344 \\ 1.0240 & 1 & 3.6701 & 0.2400 \\ 0.2790 & 0.2725 & 1 & 0.0654 \\ 4.2660 & 4.1660 & 15.2896 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.155316 \\ 0.155316 \\ 0.042319 \\ 0.647048 \end{pmatrix} = 0.996359 \cdot \begin{pmatrix} 0.155884 \\ 0.155884 \\ 0.042474 \\ 0.649412 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 3.6701 & 0.2400 \\ 1 & 1 & 3.6701 & 0.2400 \\ 0.2725 & 0.2725 & 1 & 0.0654 \\ 4.1660 & 4.1660 & 15.2896 & 1 \end{pmatrix},$$

Example 0.222.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/4 \\ 1 & 1 & 6 & 1/8 \\ 1/4 & 1/6 & 1 & 1/9 \\ 4 & 8 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.147910 \\ 0.148030 \\ 0.041655 \\ 0.662406 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9992 & 3.5508 & 0.2233 \\ 1.0008 & 1 & 3.5537 & 0.2235 \\ 0.2816 & 0.2814 & 1 & 0.0629 \\ 4.4784 & 4.4748 & 15.9023 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.148012 \\ 0.148012 \\ 0.041650 \\ 0.662326 \end{pmatrix} = 0.999881 \cdot \begin{pmatrix} 0.148030 \\ 0.148030 \\ 0.041655 \\ 0.662406 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 3.5537 & 0.2235 \\ 1 & 1 & 3.5537 & 0.2235 \\ 0.2814 & 0.2814 & 1 & 0.0629 \\ 4.4748 & 4.4748 & 15.9022 & 1 \end{pmatrix},$$

Example 0.223.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/4 \\ 1 & 1 & 7 & 1/6 \\ 1/4 & 1/7 & 1 & 1/9 \\ 4 & 6 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2066, \quad CR = 0.0779$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.154786 \\ 0.171952 \\ 0.041616 \\ 0.631646 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9002 & 3.7194 & 0.2451 \\ 1.1109 & 1 & 4.1319 & 0.2722 \\ 0.2689 & 0.2420 & 1 & 0.0659 \\ 4.0808 & 3.6734 & 15.1779 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.157419 \\ 0.171416 \\ 0.041486 \\ 0.629678 \end{pmatrix} = 0.996885 \cdot \begin{pmatrix} 0.157911 \\ 0.171952 \\ 0.041616 \\ 0.631646 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9183 & 3.7945 & 1/4 \\ 1.0889 & 1 & 4.1319 & 0.2722 \\ 0.2635 & 0.2420 & 1 & 0.0659 \\ 4 & 3.6734 & 15.1779 & 1 \end{pmatrix},$$

Example 0.224.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/4 \\ 1 & 1 & 7 & 1/7 \\ 1/4 & 1/7 & 1 & 1/9 \\ 4 & 7 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2506, \quad CR = 0.0945$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.149886 \\ 0.162358 \\ 0.040778 \\ 0.646979 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9232 & 3.6756 & 0.2317 \\ 1.0832 & 1 & 3.9815 & 0.2509 \\ 0.2721 & 0.2512 & 1 & 0.0630 \\ 4.3165 & 3.9849 & 15.8659 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.159849 \\ 0.160455 \\ 0.040300 \\ 0.639396 \end{pmatrix} = 0.988281 \cdot \begin{pmatrix} 0.161744 \\ 0.162358 \\ 0.040778 \\ 0.646979 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9962 & 3.9665 & 1/4 \\ 1.0038 & 1 & 3.9815 & 0.2509 \\ 0.2521 & 0.2512 & 1 & 0.0630 \\ 4 & 3.9849 & 15.8659 & 1 \end{pmatrix},$$

Example 0.225.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 4 & 1/4 \\ 1 & 1 & 8 & 1/6 \\ 1/4 & 1/8 & 1 & 1/9 \\ 4 & 6 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.152769 \\ 0.178240 \\ 0.040144 \\ 0.628847 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8571 & 3.8055 & 0.2429 \\ 1.1667 & 1 & 4.4400 & 0.2834 \\ 0.2628 & 0.2252 & 1 & 0.0638 \\ 4.1163 & 3.5281 & 15.6648 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.156516 \\ 0.177451 \\ 0.039967 \\ 0.626066 \end{pmatrix} = 0.995574 \cdot \begin{pmatrix} 0.157212 \\ 0.178240 \\ 0.040144 \\ 0.628847 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8820 & 3.9162 & 1/4 \\ 1.1338 & 1 & 4.4400 & 0.2834 \\ 0.2554 & 0.2252 & 1 & 0.0638 \\ 4 & 3.5281 & 15.6648 & 1 \end{pmatrix},$$

Example 0.226.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 7 \\ 1 & 1 & 7 & 5 \\ 1/5 & 1/7 & 1 & 2 \\ 1/7 & 1/5 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0899, \quad CR = 0.0339$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.419610 \\ 0.432064 \\ 0.086897 \\ 0.061428 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9712 & 4.8288 & 6.8309 \\ 1.0297 & 1 & 4.9721 & 7.0337 \\ 0.2071 & 0.2011 & 1 & 1.4146 \\ 0.1464 & 0.1422 & 0.7069 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.425576 \\ 0.427623 \\ 0.086004 \\ 0.060797 \end{pmatrix} = 0.989721 \cdot \begin{pmatrix} 0.429996 \\ 0.432064 \\ 0.086897 \\ 0.061428 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9952 & 4.9483 & 7 \\ 1.0048 & 1 & 4.9721 & 7.0337 \\ 0.2021 & 0.2011 & 1 & 1.4146 \\ 1/7 & 0.1422 & 0.7069 & 1 \end{pmatrix},$$

Example 0.227.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 7 \\ 1 & 1 & 8 & 5 \\ 1/5 & 1/8 & 1 & 2 \\ 1/7 & 1/5 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1159, \quad CR = 0.0437$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.412419 \\ 0.443585 \\ 0.083255 \\ 0.060741 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9297 & 4.9537 & 6.7898 \\ 1.0756 & 1 & 5.3280 & 7.3029 \\ 0.2019 & 0.1877 & 1 & 1.3707 \\ 0.1473 & 0.1369 & 0.7296 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.414676 \\ 0.441881 \\ 0.082935 \\ 0.060507 \end{pmatrix} = 0.996159 \cdot \begin{pmatrix} 0.416275 \\ 0.443585 \\ 0.083255 \\ 0.060741 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9384 & 5 & 6.8533 \\ 1.0656 & 1 & 5.3280 & 7.3029 \\ 1/5 & 0.1877 & 1 & 1.3707 \\ 0.1459 & 0.1369 & 0.7296 & 1 \end{pmatrix},$$

Example 0.228.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 7 \\ 1 & 1 & 8 & 5 \\ 1/5 & 1/8 & 1 & 1/3 \\ 1/7 & 1/5 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1801, \quad CR = 0.0679$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.428823 \\ \mathbf{0.421213} \\ 0.053623 \\ 0.096340 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{1.0181} & 7.9969 & 4.4511 \\ \mathbf{0.9823} & 1 & \mathbf{7.8550} & \mathbf{4.3721} \\ 0.1250 & \mathbf{0.1273} & 1 & 0.5566 \\ 0.2247 & \mathbf{0.2287} & 1.7966 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.425584 \\ 0.425584 \\ 0.053219 \\ 0.095613 \end{pmatrix} = 0.992447 \cdot \begin{pmatrix} 0.428823 \\ \mathbf{0.428823} \\ 0.053623 \\ 0.096340 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{1} & 7.9969 & 4.4511 \\ \mathbf{1} & 1 & \mathbf{7.9969} & \mathbf{4.4511} \\ 0.1250 & \mathbf{0.1250} & 1 & 0.5566 \\ 0.2247 & \mathbf{0.2247} & 1.7966 & 1 \end{pmatrix},$$

Example 0.229.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 8 \\ 1 & 1 & 8 & 5 \\ 1/5 & 1/8 & 1 & 3 \\ 1/8 & 1/5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2144, \quad CR = 0.0808$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.413229 \\ 0.441226 \\ 0.092436 \\ 0.053109 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9365 & 4.4704 & 7.7808 \\ 1.0678 & 1 & 4.7733 & 8.3080 \\ 0.2237 & 0.2095 & 1 & 1.7405 \\ 0.1285 & 0.1204 & 0.5745 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.419981 \\ 0.436149 \\ 0.091373 \\ 0.052498 \end{pmatrix} = 0.988494 \cdot \begin{pmatrix} 0.424870 \\ 0.441226 \\ 0.092436 \\ 0.053109 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9629 & 4.5963 & 8 \\ 1.0385 & 1 & 4.7733 & 8.3080 \\ 0.2176 & 0.2095 & 1 & 1.7405 \\ 1/8 & 0.1204 & 0.5745 & 1 \end{pmatrix},$$

Example 0.230.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 8 \\ 1 & 1 & 9 & 5 \\ 1/5 & 1/9 & 1 & 3 \\ 1/8 & 1/5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2489, \quad CR = 0.0939$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.405842 \\ 0.452517 \\ 0.089035 \\ 0.052606 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8969 & 4.5582 & 7.7147 \\ 1.1150 & 1 & 5.0825 & 8.6020 \\ 0.2194 & 0.1968 & 1 & 1.6925 \\ 0.1296 & 0.1163 & 0.5908 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.414626 \\ 0.445827 \\ 0.087719 \\ 0.051828 \end{pmatrix} = 0.985215 \cdot \begin{pmatrix} 0.420848 \\ 0.452517 \\ 0.089035 \\ 0.052606 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9300 & 4.7268 & 8 \\ 1.0753 & 1 & 5.0825 & 8.6020 \\ 0.2116 & 0.1968 & 1 & 1.6925 \\ 1/8 & 0.1163 & 0.5908 & 1 \end{pmatrix},$$

Example 0.231.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 8 \\ 1 & 1 & 9 & 5 \\ 1/5 & 1/9 & 1 & 1/3 \\ 1/8 & 1/5 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2138, \quad CR = 0.0806$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.437016 \\ 0.420838 \\ 0.051182 \\ 0.090965 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0384 & 8.5385 & 4.8042 \\ 0.9630 & 1 & 8.2225 & 4.6264 \\ 0.1171 & 0.1216 & 1 & 0.5627 \\ 0.2082 & 0.2162 & 1.7773 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.430058 \\ 0.430058 \\ 0.050367 \\ 0.089517 \end{pmatrix} = 0.984080 \cdot \begin{pmatrix} 0.437016 \\ 0.437016 \\ 0.051182 \\ 0.090965 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 8.5386 & 4.8042 \\ 1 & 1 & 8.5386 & 4.8042 \\ 0.1171 & 0.1171 & 1 & 0.5627 \\ 0.2082 & 0.2082 & 1.7773 & 1 \end{pmatrix},$$

Example 0.232.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 9 \\ 1 & 1 & 7 & 6 \\ 1/5 & 1/7 & 1 & 3 \\ 1/9 & 1/6 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1351, \quad CR = 0.0509$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.424540 \\ 0.434601 \\ 0.092838 \\ 0.048021 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9768 & 4.5729 & 8.8407 \\ 1.0237 & 1 & 4.6813 & 9.0502 \\ 0.2187 & 0.2136 & 1 & 1.9333 \\ 0.1131 & 0.1105 & 0.5173 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.428907 \\ 0.431304 \\ 0.092133 \\ 0.047656 \end{pmatrix} = 0.992413 \cdot \begin{pmatrix} 0.432186 \\ 0.434601 \\ 0.092838 \\ 0.048021 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9944 & 4.6553 & 9 \\ 1.0056 & 1 & 4.6813 & 9.0503 \\ 0.2148 & 0.2136 & 1 & 1.9333 \\ 1/9 & 0.1105 & 0.5173 & 1 \end{pmatrix},$$

Example 0.233.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 9 \\ 1 & 1 & 8 & 6 \\ 1/5 & 1/8 & 1 & 3 \\ 1/9 & 1/6 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.416797 \\ 0.446677 \\ 0.089007 \\ 0.047520 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9331 & 4.6828 & 8.7710 \\ 1.0717 & 1 & 5.0185 & 9.3998 \\ 0.2135 & 0.1993 & 1 & 1.8730 \\ 0.1140 & 0.1064 & 0.5339 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.423075 \\ 0.441868 \\ 0.088049 \\ 0.047008 \end{pmatrix} = 0.989234 \cdot \begin{pmatrix} 0.427679 \\ 0.446677 \\ 0.089007 \\ 0.047520 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9575 & 4.8050 & 9 \\ 1.0444 & 1 & 5.0185 & 9.3998 \\ 0.2081 & 0.1993 & 1 & 1.8730 \\ 1/9 & 0.1064 & 0.5339 & 1 \end{pmatrix},$$

Example 0.234.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 9 \\ 1 & 1 & 8 & 6 \\ 1/5 & 1/8 & 1 & 1/2 \\ 1/9 & 1/6 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1406, \quad CR = 0.0530$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.440614 \\ 0.427857 \\ 0.056961 \\ 0.074569 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0298 & 7.7354 & 5.9088 \\ 0.9710 & 1 & 7.5114 & 5.7378 \\ 0.1293 & 0.1331 & 1 & 0.7639 \\ 0.1692 & 0.1743 & 1.3091 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.435064 \\ 0.435064 \\ 0.056243 \\ 0.073629 \end{pmatrix} = 0.987403 \cdot \begin{pmatrix} 0.440614 \\ 0.440614 \\ 0.056961 \\ 0.074569 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 7.7354 & 5.9088 \\ 1 & 1 & 7.7354 & 5.9088 \\ 0.1293 & 0.1293 & 1 & 0.7639 \\ 0.1692 & 0.1692 & 1.3091 & 1 \end{pmatrix},$$

Example 0.235.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 9 \\ 1 & 1 & 9 & 5 \\ 1/5 & 1/9 & 1 & 3 \\ 1/9 & 1/5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2483, \quad CR = 0.0936$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.413438 \\ 0.448191 \\ 0.087640 \\ 0.050731 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9225 & 4.7175 & 8.1496 \\ 1.0841 & 1 & 5.1140 & 8.8347 \\ 0.2120 & 0.1955 & 1 & 1.7275 \\ 0.1227 & 0.1132 & 0.5789 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.427611 \\ 0.437361 \\ 0.085522 \\ 0.049505 \end{pmatrix} = 0.975836 \cdot \begin{pmatrix} 0.438200 \\ 0.448191 \\ 0.087640 \\ 0.050731 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9777 & 5 & 8.6377 \\ 1.0228 & 1 & 5.1140 & 8.8346 \\ 1/5 & 0.1955 & 1 & 1.7275 \\ 0.1158 & 0.1132 & 0.5789 & 1 \end{pmatrix},$$

Example 0.236.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 9 \\ 1 & 1 & 9 & 6 \\ 1/5 & 1/9 & 1 & 3 \\ 1/9 & 1/6 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1966, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.409620 \\ 0.457665 \\ 0.085680 \\ 0.047035 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8950 & 4.7808 & 8.7088 \\ 1.1173 & 1 & 5.3416 & 9.7303 \\ 0.2092 & 0.1872 & 1 & 1.8216 \\ 0.1148 & 0.1028 & 0.5490 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.417597 \\ 0.451481 \\ 0.084522 \\ 0.046400 \end{pmatrix} = 0.986488 \cdot \begin{pmatrix} 0.423317 \\ 0.457665 \\ 0.085680 \\ 0.047035 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9249 & 4.9407 & 9 \\ 1.0811 & 1 & 5.3416 & 9.7303 \\ 0.2024 & 0.1872 & 1 & 1.8216 \\ 1/9 & 0.1028 & 0.5490 & 1 \end{pmatrix},$$

Example 0.237.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 9 \\ 1 & 1 & 9 & 6 \\ 1/5 & 1/9 & 1 & 1/2 \\ 1/9 & 1/6 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1433, \quad CR = 0.0540$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.436000 \\ \mathbf{0.435779} \\ 0.054821 \\ 0.073399 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{1.0005} & 7.9531 & 5.9401 \\ \mathbf{0.9995} & 1 & \mathbf{7.9491} & \mathbf{5.9371} \\ 0.1257 & \mathbf{0.1258} & 1 & 0.7469 \\ 0.1683 & \mathbf{0.1684} & 1.3389 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.435904 \\ 0.435904 \\ 0.054809 \\ 0.073383 \end{pmatrix} = 0.999779 \cdot \begin{pmatrix} 0.436000 \\ \mathbf{0.436000} \\ 0.054821 \\ 0.073399 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{1} & 7.9531 & 5.9401 \\ \mathbf{1} & 1 & \mathbf{7.9531} & \mathbf{5.9401} \\ 0.1257 & \mathbf{0.1257} & 1 & 0.7469 \\ 0.1683 & \mathbf{0.1683} & 1.3389 & 1 \end{pmatrix},$$

Example 0.238.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 9 \\ 1 & 1 & 9 & 6 \\ 1/5 & 1/9 & 1 & 1/3 \\ 1/9 & 1/6 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2508, \quad CR = 0.0946$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.439075 \\ 0.427544 \\ 0.050161 \\ 0.083220 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0270 & 8.7533 & 5.2761 \\ 0.9737 & 1 & 8.5235 & 5.1375 \\ 0.1142 & 0.1173 & 1 & 0.6028 \\ 0.1895 & 0.1946 & 1.6591 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.434070 \\ 0.434070 \\ 0.049589 \\ 0.082271 \end{pmatrix} = 0.988601 \cdot \begin{pmatrix} 0.439075 \\ 0.439075 \\ 0.050161 \\ 0.083220 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 8.7534 & 5.2761 \\ 1 & 1 & 8.7534 & 5.2761 \\ 0.1142 & 0.1142 & 1 & 0.6028 \\ 0.1895 & 0.1895 & 1.6591 & 1 \end{pmatrix},$$

Example 0.239.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/2 \\ 1 & 1 & 7 & 1/3 \\ 1/5 & 1/7 & 1 & 1/6 \\ 2 & 3 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1351, \quad CR = 0.0509$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.233732 \\ 0.239271 \\ 0.051112 \\ 0.475885 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9768 & 4.5729 & 0.4912 \\ 1.0237 & 1 & 4.6813 & 0.5028 \\ 0.2187 & 0.2136 & 1 & 0.1074 \\ 2.0360 & 1.9889 & 9.3106 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.236945 \\ 0.238269 \\ 0.050898 \\ 0.473889 \end{pmatrix} = 0.995811 \cdot \begin{pmatrix} 0.237942 \\ 0.239271 \\ 0.051112 \\ 0.475885 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9944 & 4.6553 & 1/2 \\ 1.0056 & 1 & 4.6813 & 0.5028 \\ 0.2148 & 0.2136 & 1 & 0.1074 \\ 2 & 1.9889 & 9.3106 & 1 \end{pmatrix},$$

Example 0.240.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/2 \\ 1 & 1 & 7 & 1/3 \\ 1/5 & 1/7 & 1 & 1/7 \\ 2 & 3 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1027, \quad CR = 0.0387$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.231501 \\ 0.235235 \\ 0.048092 \\ 0.485172 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9841 & 4.8137 & 0.4772 \\ 1.0161 & 1 & 4.8914 & 0.4848 \\ 0.2077 & 0.2044 & 1 & 0.0991 \\ 2.0958 & 2.0625 & 10.0884 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.234360 \\ 0.234360 \\ 0.047913 \\ 0.483367 \end{pmatrix} = 0.996281 \cdot \begin{pmatrix} 0.235235 \\ 0.235235 \\ 0.048092 \\ 0.485172 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 4.8914 & 0.4848 \\ 1 & 1 & 4.8914 & 0.4848 \\ 0.2044 & 0.2044 & 1 & 0.0991 \\ 2.0625 & 2.0625 & 10.0884 & 1 \end{pmatrix},$$

Example 0.241.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/2 \\ 1 & 1 & 8 & 1/3 \\ 1/5 & 1/8 & 1 & 1/6 \\ 2 & 3 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.230550 \\ 0.247078 \\ 0.049234 \\ 0.473138 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9331 & 4.6828 & 0.4873 \\ 1.0717 & 1 & 5.0185 & 0.5222 \\ 0.2135 & 0.1993 & 1 & 0.1041 \\ 2.0522 & 1.9149 & 9.6100 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.235154 \\ 0.245599 \\ 0.048939 \\ 0.470308 \end{pmatrix} = 0.994012 \cdot \begin{pmatrix} 0.236570 \\ 0.247078 \\ 0.049234 \\ 0.473138 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9575 & 4.8050 & 1/2 \\ 1.0444 & 1 & 5.0185 & 0.5222 \\ 0.2081 & 0.1993 & 1 & 0.1041 \\ 2 & 1.9149 & 9.6100 & 1 \end{pmatrix},$$

Example 0.242.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/2 \\ 1 & 1 & 8 & 1/3 \\ 1/5 & 1/8 & 1 & 1/7 \\ 2 & 3 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1301, \quad CR = 0.0490$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.228592 \\ 0.242770 \\ 0.046315 \\ 0.482323 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9416 & 4.9356 & 0.4739 \\ 1.0620 & 1 & 5.2417 & 0.5033 \\ 0.2026 & 0.1908 & 1 & 0.0960 \\ 2.1100 & 1.9868 & 10.4140 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.230885 \\ 0.242048 \\ 0.046177 \\ 0.480889 \end{pmatrix} = 0.997028 \cdot \begin{pmatrix} 0.231573 \\ 0.242770 \\ 0.046315 \\ 0.482323 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9539 & 5 & 0.4801 \\ 1.0483 & 1 & 5.2417 & 0.5033 \\ 1/5 & 0.1908 & 1 & 0.0960 \\ 2.0828 & 1.9868 & 10.4140 & 1 \end{pmatrix},$$

Example 0.243.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/2 \\ 1 & 1 & 8 & 1/4 \\ 1/5 & 1/8 & 1 & 1/6 \\ 2 & 4 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.221589 \\ 0.225990 \\ 0.048242 \\ 0.504178 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9805 & 4.5933 & 0.4395 \\ 1.0199 & 1 & 4.6845 & 0.4482 \\ 0.2177 & 0.2135 & 1 & 0.0957 \\ 2.2753 & 2.2310 & 10.4510 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.224999 \\ 0.224999 \\ 0.048031 \\ 0.501971 \end{pmatrix} = 0.995614 \cdot \begin{pmatrix} 0.225990 \\ 0.225990 \\ 0.048242 \\ 0.504178 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 4.6845 & 0.4482 \\ 1 & 1 & 4.6845 & 0.4482 \\ 0.2135 & 0.2135 & 1 & 0.0957 \\ 2.2310 & 2.2310 & 10.4510 & 1 \end{pmatrix},$$

Example 0.244.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/2 \\ 1 & 1 & 8 & 1/4 \\ 1/5 & 1/8 & 1 & 1/7 \\ 2 & 4 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2035, \quad CR = 0.0767$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.219939 \\ 0.221727 \\ 0.045263 \\ 0.513071 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9919 & 4.8592 & 0.4287 \\ 1.0081 & 1 & 4.8987 & 0.4322 \\ 0.2058 & 0.2041 & 1 & 0.0882 \\ 2.3328 & 2.3140 & 11.3354 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.221332 \\ 0.221332 \\ 0.045182 \\ 0.512154 \end{pmatrix} = 0.998219 \cdot \begin{pmatrix} 0.221727 \\ 0.221727 \\ 0.045263 \\ 0.513071 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 4.8987 & 0.4322 \\ 1 & 1 & 4.8987 & 0.4322 \\ 0.2041 & 0.2041 & 1 & 0.0882 \\ 2.3140 & 2.3140 & 11.3354 & 1 \end{pmatrix},$$

Example 0.245.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/2 \\ 1 & 1 & 9 & 1/3 \\ 1/5 & 1/9 & 1 & 1/5 \\ 2 & 3 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2508, \quad CR = 0.0946$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.229432 \\ 0.259655 \\ 0.051270 \\ 0.459642 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8836 & 4.4750 & 0.4992 \\ 1.1317 & 1 & 5.0645 & 0.5649 \\ 0.2235 & 0.1975 & 1 & 0.1115 \\ 2.0034 & 1.7702 & 8.9652 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.229732 \\ 0.259555 \\ 0.051250 \\ 0.459464 \end{pmatrix} = 0.999612 \cdot \begin{pmatrix} 0.229821 \\ 0.259655 \\ 0.051270 \\ 0.459642 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8851 & 4.4826 & 1/2 \\ 1.1298 & 1 & 5.0645 & 0.5649 \\ 0.2231 & 0.1975 & 1 & 0.1115 \\ 2 & 1.7702 & 8.9652 & 1 \end{pmatrix},$$

Example 0.246.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/2 \\ 1 & 1 & 9 & 1/3 \\ 1/5 & 1/9 & 1 & 1/6 \\ 2 & 3 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1966, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.227618 \\ 0.254315 \\ 0.047611 \\ 0.470456 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8950 & 4.7808 & 0.4838 \\ 1.1173 & 1 & 5.3416 & 0.5406 \\ 0.2092 & 0.1872 & 1 & 0.1012 \\ 2.0669 & 1.8499 & 9.8813 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.233452 \\ 0.252394 \\ 0.047251 \\ 0.466903 \end{pmatrix} = 0.992446 \cdot \begin{pmatrix} 0.235229 \\ 0.254315 \\ 0.047611 \\ 0.470456 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9250 & 4.9407 & 1/2 \\ 1.0811 & 1 & 5.3416 & 0.5406 \\ 0.2024 & 0.1872 & 1 & 0.1012 \\ 2 & 1.8499 & 9.8813 & 1 \end{pmatrix},$$

Example 0.247.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/2 \\ 1 & 1 & 9 & 1/4 \\ 1/5 & 1/9 & 1 & 1/7 \\ 2 & 4 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2371, \quad CR = 0.0894$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.217067 \\ 0.228266 \\ 0.043792 \\ 0.510875 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9509 & 4.9568 & 0.4249 \\ 1.0516 & 1 & 5.2125 & 0.4468 \\ 0.2017 & 0.1918 & 1 & 0.0857 \\ 2.3535 & 2.2381 & 11.6659 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.218547 \\ 0.227835 \\ 0.043709 \\ 0.509909 \end{pmatrix} = 0.998112 \cdot \begin{pmatrix} 0.218960 \\ 0.228266 \\ 0.043792 \\ 0.510875 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9592 & 5 & 0.4286 \\ 1.0425 & 1 & 5.2125 & 0.4468 \\ 1/5 & 0.1918 & 1 & 0.0857 \\ 2.3332 & 2.2381 & 11.6659 & 1 \end{pmatrix},$$

Example 0.248.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/3 \\ 1 & 1 & 7 & 1/5 \\ 1/5 & 1/7 & 1 & 1/7 \\ 3 & 5 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2309, \quad CR = 0.0871$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.189201 \\ 0.192688 \\ 0.045549 \\ 0.572563 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9819 & 4.1538 & 0.3304 \\ 1.0184 & 1 & 4.2304 & 0.3365 \\ 0.2407 & 0.2364 & 1 & 0.0796 \\ 3.0262 & 2.9715 & 12.5704 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.190539 \\ 0.192370 \\ 0.045473 \\ 0.571618 \end{pmatrix} = 0.998351 \cdot \begin{pmatrix} 0.190854 \\ 0.192688 \\ 0.045549 \\ 0.572563 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9905 & 4.1901 & 1/3 \\ 1.0096 & 1 & 4.2304 & 0.3365 \\ 0.2387 & 0.2364 & 1 & 0.0796 \\ 3 & 2.9715 & 12.5704 & 1 \end{pmatrix},$$

Example 0.249.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/3 \\ 1 & 1 & 7 & 1/5 \\ 1/5 & 1/7 & 1 & 1/8 \\ 3 & 5 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1907, \quad CR = 0.0719$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.187283 \\ 0.189315 \\ 0.042955 \\ 0.580448 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9893 & 4.3600 & 0.3227 \\ 1.0109 & 1 & 4.4073 & 0.3262 \\ 0.2294 & 0.2269 & 1 & 0.0740 \\ 3.0993 & 3.0660 & 13.5130 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.188931 \\ 0.188931 \\ 0.042868 \\ 0.579271 \end{pmatrix} = 0.997972 \cdot \begin{pmatrix} 0.189315 \\ 0.189315 \\ 0.042955 \\ 0.580448 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 4.4073 & 0.3262 \\ 1 & 1 & 4.4073 & 0.3262 \\ 0.2269 & 0.2269 & 1 & 0.0740 \\ 3.0660 & 3.0660 & 13.5130 & 1 \end{pmatrix},$$

Example 0.250.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/3 \\ 1 & 1 & 7 & 1/5 \\ 1/5 & 1/7 & 1 & 1/9 \\ 3 & 5 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1596, \quad CR = 0.0602$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.185533 \\ 0.186335 \\ 0.040822 \\ 0.587310 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9957 & 4.5449 & 0.3159 \\ 1.0043 & 1 & 4.5646 & 0.3173 \\ 0.2200 & 0.2191 & 1 & 0.0695 \\ 3.1655 & 3.1519 & 14.3870 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.186186 \\ 0.186186 \\ 0.040789 \\ 0.586838 \end{pmatrix} = 0.999202 \cdot \begin{pmatrix} 0.186335 \\ 0.186335 \\ 0.040822 \\ 0.587310 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 4.5646 & 0.3173 \\ 1 & 1 & 4.5646 & 0.3173 \\ 0.2191 & 0.2191 & 1 & 0.0695 \\ 3.1519 & 3.1519 & 14.3870 & 1 \end{pmatrix},$$

Example 0.251.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/3 \\ 1 & 1 & 8 & 1/5 \\ 1/5 & 1/8 & 1 & 1/8 \\ 3 & 5 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2259, \quad CR = 0.0852$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.184667 \\ 0.195845 \\ 0.041437 \\ 0.578051 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9429 & 4.4566 & 0.3195 \\ 1.0605 & 1 & 4.7263 & 0.3388 \\ 0.2244 & 0.2116 & 1 & 0.0717 \\ 3.1302 & 2.9516 & 13.9501 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.191151 \\ 0.194288 \\ 0.041107 \\ 0.573454 \end{pmatrix} = 0.992049 \cdot \begin{pmatrix} 0.192683 \\ 0.195845 \\ 0.041437 \\ 0.578051 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9839 & 4.6500 & 1/3 \\ 1.0164 & 1 & 4.7264 & 0.3388 \\ 0.2151 & 0.2116 & 1 & 0.0717 \\ 3 & 2.9516 & 13.9501 & 1 \end{pmatrix},$$

Example 0.252.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/3 \\ 1 & 1 & 8 & 1/5 \\ 1/5 & 1/8 & 1 & 1/9 \\ 3 & 5 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1922, \quad CR = 0.0725$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.183097 \\ 0.192671 \\ 0.039373 \\ 0.584858 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9503 & 4.6503 & 0.3131 \\ 1.0523 & 1 & 4.8935 & 0.3294 \\ 0.2150 & 0.2044 & 1 & 0.0673 \\ 3.1942 & 3.0355 & 14.8543 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.190844 \\ 0.190844 \\ 0.039000 \\ 0.579312 \end{pmatrix} = 0.990516 \cdot \begin{pmatrix} 0.192671 \\ 0.192671 \\ 0.039373 \\ 0.584858 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 4.8935 & 0.3294 \\ 1 & 1 & 4.8935 & 0.3294 \\ 0.2044 & 0.2044 & 1 & 0.0673 \\ 3.0355 & 3.0355 & 14.8543 & 1 \end{pmatrix},$$

Example 0.253.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/3 \\ 1 & 1 & 8 & 1/6 \\ 1/5 & 1/8 & 1 & 1/9 \\ 3 & 6 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.176975 \\ 0.180490 \\ 0.038529 \\ 0.604005 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9805 & 4.5933 & 0.2930 \\ 1.0199 & 1 & 4.6845 & 0.2988 \\ 0.2177 & 0.2135 & 1 & 0.0638 \\ 3.4129 & 3.3465 & 15.6765 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.179858 \\ 0.179858 \\ 0.038394 \\ 0.601890 \end{pmatrix} = 0.996497 \cdot \begin{pmatrix} 0.180490 \\ 0.180490 \\ 0.038529 \\ 0.604005 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 4.6845 & 0.2988 \\ 1 & 1 & 4.6845 & 0.2988 \\ 0.2135 & 0.2135 & 1 & 0.0638 \\ 3.3465 & 3.3465 & 15.6765 & 1 \end{pmatrix},$$

Example 0.254.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/3 \\ 1 & 1 & 9 & 1/5 \\ 1/5 & 1/9 & 1 & 1/8 \\ 3 & 5 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2612, \quad CR = 0.0985$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.182273 \\ 0.201924 \\ 0.040123 \\ 0.575680 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9027 & 4.5428 & 0.3166 \\ 1.1078 & 1 & 5.0326 & 0.3508 \\ 0.2201 & 0.1987 & 1 & 0.0697 \\ 3.1583 & 2.8510 & 14.3478 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.190065 \\ 0.199999 \\ 0.039741 \\ 0.570195 \end{pmatrix} = 0.990468 \cdot \begin{pmatrix} 0.191894 \\ 0.201924 \\ 0.040123 \\ 0.575680 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9503 & 4.7826 & 1/3 \\ 1.0523 & 1 & 5.0326 & 0.3508 \\ 0.2091 & 0.1987 & 1 & 0.0697 \\ 3 & 2.8510 & 14.3478 & 1 \end{pmatrix},$$

Example 0.255.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/3 \\ 1 & 1 & 9 & 1/5 \\ 1/5 & 1/9 & 1 & 1/9 \\ 3 & 5 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2253, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.180862 \\ 0.198572 \\ 0.038122 \\ 0.582444 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9108 & 4.7444 & 0.3105 \\ 1.0979 & 1 & 5.2089 & 0.3409 \\ 0.2108 & 0.1920 & 1 & 0.0655 \\ 3.2204 & 2.9332 & 15.2786 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.188768 \\ 0.196655 \\ 0.037754 \\ 0.576823 \end{pmatrix} = 0.990346 \cdot \begin{pmatrix} 0.190608 \\ 0.198572 \\ 0.038122 \\ 0.582444 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9599 & 5 & 0.3273 \\ 1.0418 & 1 & 5.2089 & 0.3409 \\ 1/5 & 0.1920 & 1 & 0.0655 \\ 3.0557 & 2.9332 & 15.2786 & 1 \end{pmatrix},$$

Example 0.256.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 5 & 1/4 \\ 1 & 1 & 7 & 1/7 \\ 1/5 & 1/7 & 1 & 1/9 \\ 4 & 7 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2574, \quad CR = 0.0971$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.157783 \\ 0.159740 \\ 0.038654 \\ 0.643823 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9878 & 4.0819 & 0.2451 \\ 1.0124 & 1 & 4.1325 & 0.2481 \\ 0.2450 & 0.2420 & 1 & 0.0600 \\ 4.0804 & 4.0304 & 16.6560 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.159428 \\ 0.159428 \\ 0.038579 \\ 0.642566 \end{pmatrix} = 0.998047 \cdot \begin{pmatrix} 0.159740 \\ 0.159740 \\ 0.038654 \\ 0.643823 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 4.1325 & 0.2481 \\ 1 & 1 & 4.1325 & 0.2481 \\ 0.2420 & 0.2420 & 1 & 0.0600 \\ 4.0304 & 4.0304 & 16.6560 & 1 \end{pmatrix},$$

Example 0.257.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 6 & 8 \\ 1 & 1 & 9 & 6 \\ 1/6 & 1/9 & 1 & 2 \\ 1/8 & 1/6 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.423187 \\ 0.450745 \\ 0.073043 \\ 0.053025 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9389 & 5.7936 & 7.9808 \\ 1.0651 & 1 & 6.1709 & 8.5006 \\ 0.1726 & 0.1621 & 1 & 1.3775 \\ 0.1253 & 0.1176 & 0.7259 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.423771 \\ 0.450289 \\ 0.072969 \\ 0.052971 \end{pmatrix} = 0.998988 \cdot \begin{pmatrix} 0.424200 \\ 0.450745 \\ 0.073043 \\ 0.053025 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9411 & 5.8075 & 8 \\ 1.0626 & 1 & 6.1709 & 8.5006 \\ 0.1722 & 0.1621 & 1 & 1.3775 \\ 1/8 & 0.1176 & 0.7259 & 1 \end{pmatrix},$$

Example 0.258.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 6 & 9 \\ 1 & 1 & 8 & 7 \\ 1/6 & 1/8 & 1 & 2 \\ 1/9 & 1/7 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0576, \quad CR = 0.0217$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.432792 \\ 0.445114 \\ 0.073544 \\ 0.048550 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9723 & 5.8848 & 8.9144 \\ 1.0285 & 1 & 6.0524 & 9.1682 \\ 0.1699 & 0.1652 & 1 & 1.5148 \\ 0.1122 & 0.1091 & 0.6601 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.435140 \\ 0.443271 \\ 0.073240 \\ 0.048349 \end{pmatrix} = 0.995860 \cdot \begin{pmatrix} 0.436949 \\ 0.445114 \\ 0.073544 \\ 0.048550 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9817 & 5.9413 & 9 \\ 1.0187 & 1 & 6.0523 & 9.1682 \\ 0.1683 & 0.1652 & 1 & 1.5148 \\ 1/9 & 0.1091 & 0.6601 & 1 \end{pmatrix},$$

Example 0.259.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 6 & 9 \\ 1 & 1 & 9 & 6 \\ 1/6 & 1/9 & 1 & 2 \\ 1/9 & 1/6 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.430843 \\ 0.446189 \\ 0.071979 \\ 0.050989 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9656 & 5.9857 & 8.4497 \\ 1.0356 & 1 & 6.1989 & 8.7507 \\ 0.1671 & 0.1613 & 1 & 1.4117 \\ 0.1183 & 0.1143 & 0.7084 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.431430 \\ 0.445729 \\ 0.071905 \\ 0.050936 \end{pmatrix} = 0.998968 \cdot \begin{pmatrix} 0.431875 \\ 0.446189 \\ 0.071979 \\ 0.050989 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9679 & 6 & 8.4700 \\ 1.0331 & 1 & 6.1989 & 8.7507 \\ 1/6 & 0.1613 & 1 & 1.4117 \\ 0.1181 & 0.1143 & 0.7084 & 1 \end{pmatrix},$$

Example 0.260.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 6 & 1/2 \\ 1 & 1 & 8 & 1/3 \\ 1/6 & 1/8 & 1 & 1/7 \\ 2 & 3 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1317, \quad CR = 0.0496$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.237336 \\ 0.239325 \\ 0.044047 \\ 0.479291 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9917 & 5.3882 & 0.4952 \\ 1.0084 & 1 & 5.4333 & 0.4993 \\ 0.1856 & 0.1840 & 1 & 0.0919 \\ 2.0195 & 2.0027 & 10.8812 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.238849 \\ 0.238849 \\ 0.043960 \\ 0.478341 \end{pmatrix} = 0.998011 \cdot \begin{pmatrix} 0.239325 \\ 0.239325 \\ 0.044047 \\ 0.479291 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 5.4333 & 0.4993 \\ 1 & 1 & 5.4333 & 0.4993 \\ 0.1841 & 0.1841 & 1 & 0.0919 \\ 2.0027 & 2.0027 & 10.8812 & 1 \end{pmatrix},$$

Example 0.261.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 6 & 1/2 \\ 1 & 1 & 8 & 1/3 \\ 1/6 & 1/8 & 1 & 1/8 \\ 2 & 3 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.235230 \\ 0.235794 \\ 0.041758 \\ 0.487217 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9976 & 5.6331 & 0.4828 \\ 1.0024 & 1 & 5.6467 & 0.4840 \\ 0.1775 & 0.1771 & 1 & 0.0857 \\ 2.0712 & 2.0663 & 11.6676 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.235661 \\ 0.235661 \\ 0.041735 \\ 0.486944 \end{pmatrix} = 0.999434 \cdot \begin{pmatrix} 0.235794 \\ 0.235794 \\ 0.041758 \\ 0.487217 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 5.6467 & 0.4840 \\ 1 & 1 & 5.6467 & 0.4840 \\ 0.1771 & 0.1771 & 1 & 0.0857 \\ 2.0663 & 2.0663 & 11.6676 & 1 \end{pmatrix},$$

Example 0.262.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 6 & 1/2 \\ 1 & 1 & 9 & 1/3 \\ 1/6 & 1/9 & 1 & 1/7 \\ 2 & 3 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1571, \quad CR = 0.0593$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.234452 \\ 0.246088 \\ 0.042614 \\ 0.476845 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9527 & 5.5017 & 0.4917 \\ 1.0496 & 1 & 5.7747 & 0.5161 \\ 0.1818 & 0.1732 & 1 & 0.0894 \\ 2.0339 & 1.9377 & 11.1897 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.237480 \\ 0.245114 \\ 0.042446 \\ 0.474960 \end{pmatrix} = 0.996042 \cdot \begin{pmatrix} 0.238424 \\ 0.246088 \\ 0.042614 \\ 0.476845 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9689 & 5.5949 & 1/2 \\ 1.0321 & 1 & 5.7748 & 0.5161 \\ 0.1787 & 0.1732 & 1 & 0.0894 \\ 2 & 1.9377 & 11.1898 & 1 \end{pmatrix},$$

Example 0.263.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 6 & 1/2 \\ 1 & 1 & 9 & 1/3 \\ 1/6 & 1/9 & 1 & 1/8 \\ 2 & 3 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1263, \quad CR = 0.0476$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.232561 \\ 0.242349 \\ 0.040392 \\ 0.484698 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9596 & 5.7576 & 0.4798 \\ 1.0421 & 1 & 6.0000 & 0.5000 \\ 0.1737 & 0.1667 & 1 & 0.0833 \\ 2.0842 & 2.0000 & 12.0000 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.240000 \\ 0.240000 \\ 0.040000 \\ 0.480000 \end{pmatrix} = 0.990306 \cdot \begin{pmatrix} 0.242349 \\ 0.242349 \\ 0.040392 \\ 0.484698 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0000 & 6.0000 & 1/2 \\ 1.0000 & 1 & 6.0000 & 0.5000 \\ 0.1667 & 0.1667 & 1 & 0.0833 \\ 2 & 2.0000 & 12.0000 & 1 \end{pmatrix},$$

Example 0.264.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 6 & 1/2 \\ 1 & 1 & 9 & 1/3 \\ 1/6 & 1/9 & 1 & 1/9 \\ 2 & 3 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.230790 \\ 0.239011 \\ 0.038557 \\ 0.491641 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9656 & 5.9857 & 0.4694 \\ 1.0356 & 1 & 6.1989 & 0.4861 \\ 0.1671 & 0.1613 & 1 & 0.0784 \\ 2.1303 & 2.0570 & 12.7509 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.231216 \\ 0.238879 \\ 0.038536 \\ 0.491369 \end{pmatrix} = 0.999447 \cdot \begin{pmatrix} 0.231344 \\ 0.239011 \\ 0.038557 \\ 0.491641 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9679 & 6 & 0.4706 \\ 1.0331 & 1 & 6.1989 & 0.4861 \\ 1/6 & 0.1613 & 1 & 0.0784 \\ 2.1252 & 2.0570 & 12.7509 & 1 \end{pmatrix},$$

Example 0.265.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 6 & 1/3 \\ 1 & 1 & 9 & 1/5 \\ 1/6 & 1/9 & 1 & 1/9 \\ 3 & 5 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.188189 \\ 0.195745 \\ 0.036410 \\ 0.579657 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9614 & 5.1687 & 0.3247 \\ 1.0401 & 1 & 5.3762 & 0.3377 \\ 0.1935 & 0.1860 & 1 & 0.0628 \\ 3.0802 & 2.9613 & 15.9204 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.192252 \\ 0.194764 \\ 0.036228 \\ 0.576756 \end{pmatrix} = 0.994991 \cdot \begin{pmatrix} 0.193220 \\ 0.195745 \\ 0.036410 \\ 0.579657 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9871 & 5.3068 & 1/3 \\ 1.0131 & 1 & 5.3761 & 0.3377 \\ 0.1884 & 0.1860 & 1 & 0.0628 \\ 3 & 2.9613 & 15.9204 & 1 \end{pmatrix},$$

Example 0.266.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/3 \\ 1 & 1 & 1/3 & 1/2 \\ 2 & 3 & 1 & 2 \\ 3 & 2 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.144376 \\ 0.139410 \\ 0.419234 \\ 0.296979 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0356 & 0.3444 & 0.4861 \\ 0.9656 & 1 & 0.3325 & 0.4694 \\ 2.9038 & 3.0072 & 1 & 1.4117 \\ 2.0570 & 2.1303 & 0.7084 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.144328 \\ 0.139698 \\ 0.419094 \\ 0.296880 \end{pmatrix} = 0.999665 \cdot \begin{pmatrix} 0.144376 \\ 0.139745 \\ 0.419234 \\ 0.296979 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0331 & 0.3444 & 0.4861 \\ 0.9679 & 1 & 1/3 & 0.4706 \\ 2.9038 & 3 & 1 & 1.4117 \\ 2.0570 & 2.1252 & 0.7084 & 1 \end{pmatrix},$$

Example 0.267.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/3 \\ 1 & 1 & 1/3 & 1/9 \\ 2 & 3 & 1 & 1/2 \\ 3 & 9 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.126035 \\ 0.086808 \\ \mathbf{0.251468} \\ 0.535689 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.4519 & \mathbf{0.5012} & 0.2353 \\ 0.6888 & 1 & \mathbf{0.3452} & 0.1621 \\ \mathbf{1.9952} & \mathbf{2.8968} & 1 & \mathbf{0.4694} \\ 4.2503 & 6.1709 & \mathbf{2.1302} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.125959 \\ 0.086756 \\ 0.251919 \\ 0.535366 \end{pmatrix} = 0.999396 \cdot \begin{pmatrix} 0.126035 \\ 0.086808 \\ \mathbf{0.252071} \\ 0.535689 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.4519 & \mathbf{1/2} & 0.2353 \\ 0.6888 & 1 & \mathbf{0.3444} & 0.1621 \\ \mathbf{2} & \mathbf{2.9038} & 1 & \mathbf{0.4706} \\ 4.2503 & 6.1709 & \mathbf{2.1252} & 1 \end{pmatrix},$$

Example 0.268.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/4 \\ 1 & 1 & 1/3 & 1/3 \\ 2 & 3 & 1 & 1/3 \\ 4 & 3 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.119989 \\ 0.120277 \\ 0.248525 \\ 0.511210 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9976 & 0.4828 & 0.2347 \\ 1.0024 & 1 & 0.4840 & 0.2353 \\ 2.0712 & 2.0663 & 1 & 0.4862 \\ 4.2605 & 4.2503 & 2.0570 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.120241 \\ 0.120241 \\ 0.248454 \\ 0.511064 \end{pmatrix} = 0.999706 \cdot \begin{pmatrix} 0.120277 \\ 0.120277 \\ 0.248525 \\ 0.511210 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.4840 & 0.2353 \\ 1 & 1 & 0.4840 & 0.2353 \\ 2.0663 & 2.0663 & 1 & 0.4862 \\ 4.2503 & 4.2503 & 2.0570 & 1 \end{pmatrix},$$

Example 0.269.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/5 \\ 1 & 1 & 1/3 & 1/3 \\ 2 & 3 & 1 & 2 \\ 5 & 3 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.120907 \\ 0.116240 \\ 0.404811 \\ 0.358042 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0401 & 0.2987 & 0.3377 \\ 0.9614 & 1 & 0.2871 & 0.3247 \\ 3.3481 & 3.4825 & 1 & 1.1306 \\ 2.9613 & 3.0802 & 0.8845 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.120532 \\ 0.118978 \\ 0.403557 \\ 0.356933 \end{pmatrix} = 0.996899 \cdot \begin{pmatrix} 0.120907 \\ 0.119348 \\ 0.404811 \\ 0.358042 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0131 & 0.2987 & 0.3377 \\ 0.9871 & 1 & 0.2948 & 1/3 \\ 3.3481 & 3.3919 & 1 & 1.1306 \\ 2.9613 & 3 & 0.8845 & 1 \end{pmatrix},$$

Example 0.270.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/5 \\ 1 & 1 & 1/3 & 1/3 \\ 2 & 3 & 1 & 1/4 \\ 5 & 3 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.106587 \\ 0.115577 \\ 0.220863 \\ 0.556973 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9222 & 0.4826 & 0.1914 \\ 1.0843 & 1 & 0.5233 & 0.2075 \\ 2.0722 & 1.9110 & 1 & 0.3965 \\ 5.2255 & 4.8191 & 2.5218 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.110008 \\ 0.115135 \\ 0.220017 \\ 0.554840 \end{pmatrix} = 0.996174 \cdot \begin{pmatrix} 0.110431 \\ 0.115577 \\ 0.220863 \\ 0.556973 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9555 & 1/2 & 0.1983 \\ 1.0466 & 1 & 0.5233 & 0.2075 \\ 2 & 1.9109 & 1 & 0.3965 \\ 5.0436 & 4.8190 & 2.5218 & 1 \end{pmatrix},$$

Example 0.271.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/5 \\ 1 & 1 & 1/4 & 1/3 \\ 2 & 4 & 1 & 1/4 \\ 5 & 3 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.103567 \\ 0.106875 \\ 0.237990 \\ 0.551569 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9690 & 0.4352 & 0.1878 \\ 1.0319 & 1 & 0.4491 & 0.1938 \\ 2.2979 & 2.2268 & 1 & 0.4315 \\ 5.3257 & 5.1609 & 2.3176 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.106522 \\ 0.106522 \\ 0.237205 \\ 0.549751 \end{pmatrix} = 0.996699 \cdot \begin{pmatrix} 0.106875 \\ 0.106875 \\ 0.237990 \\ 0.551569 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.4491 & 0.1938 \\ 1 & 1 & 0.4491 & 0.1938 \\ 2.2268 & 2.2268 & 1 & 0.4315 \\ 5.1609 & 5.1609 & 2.3176 & 1 \end{pmatrix},$$

Example 0.272.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/6 \\ 1 & 1 & 1/3 & 1/3 \\ 2 & 3 & 1 & 1/5 \\ 6 & 3 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.096140 \\ 0.111604 \\ 0.199999 \\ 0.592258 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8614 & 0.4807 & 0.1623 \\ 1.1608 & 1 & 0.5580 & 0.1884 \\ 2.0803 & 1.7920 & 1 & 0.3377 \\ 6.1604 & 5.3068 & 2.9613 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.098457 \\ 0.111317 \\ 0.199486 \\ 0.590740 \end{pmatrix} = 0.997430 \cdot \begin{pmatrix} 0.098710 \\ 0.111604 \\ 0.199999 \\ 0.592258 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8845 & 0.4936 & 1/6 \\ 1.1306 & 1 & 0.5580 & 0.1884 \\ 2.0261 & 1.7921 & 1 & 0.3377 \\ 6 & 5.3068 & 2.9613 & 1 \end{pmatrix},$$

Example 0.273.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/6 \\ 1 & 1 & 1/3 & 1/4 \\ 2 & 3 & 1 & 1/4 \\ 6 & 4 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.098229 \\ 0.101728 \\ 0.209253 \\ 0.590789 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9656 & 0.4694 & 0.1663 \\ 1.0356 & 1 & 0.4861 & 0.1722 \\ 2.1303 & 2.0570 & 1 & 0.3542 \\ 6.0144 & 5.8075 & 2.8233 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.098442 \\ 0.101704 \\ 0.209204 \\ 0.590650 \end{pmatrix} = 0.999761 \cdot \begin{pmatrix} 0.098465 \\ 0.101728 \\ 0.209253 \\ 0.590789 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9679 & 0.4706 & 1/6 \\ 1.0331 & 1 & 0.4861 & 0.1722 \\ 2.1252 & 2.0570 & 1 & 0.3542 \\ 6 & 5.8075 & 2.8233 & 1 \end{pmatrix},$$

Example 0.274.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/6 \\ 1 & 1 & 1/3 & 1/4 \\ 2 & 3 & 1 & 1/5 \\ 6 & 4 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1502, \quad CR = 0.0566$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.094585 \\ 0.099127 \\ 0.193364 \\ 0.612924 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9542 & 0.4892 & 0.1543 \\ 1.0480 & 1 & 0.5126 & 0.1617 \\ 2.0443 & 1.9507 & 1 & 0.3155 \\ 6.4801 & 6.1832 & 3.1698 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.096480 \\ 0.098920 \\ 0.192959 \\ 0.611642 \end{pmatrix} = 0.997907 \cdot \begin{pmatrix} 0.096682 \\ 0.099127 \\ 0.193364 \\ 0.612924 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9753 & 1/2 & 0.1577 \\ 1.0253 & 1 & 0.5126 & 0.1617 \\ 2 & 1.9507 & 1 & 0.3155 \\ 6.3396 & 6.1832 & 3.1698 & 1 \end{pmatrix},$$

Example 0.275.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/6 \\ 1 & 1 & 1/6 & 1/8 \\ 2 & 6 & 1 & 1/2 \\ 6 & 8 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.097505 \\ 0.068822 \\ 0.284412 \\ \mathbf{0.549260} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.4168 & 0.3428 & \mathbf{0.1775} \\ 0.7058 & 1 & 0.2420 & \mathbf{0.1253} \\ 2.9169 & 4.1326 & 1 & \mathbf{0.5178} \\ \mathbf{5.6331} & \mathbf{7.9809} & \mathbf{1.9312} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.097377 \\ 0.068732 \\ 0.284039 \\ 0.549853 \end{pmatrix} = 0.998684 \cdot \begin{pmatrix} 0.097505 \\ 0.068822 \\ 0.284412 \\ \mathbf{0.550577} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.4168 & 0.3428 & \mathbf{0.1771} \\ 0.7058 & 1 & 0.2420 & \mathbf{1/8} \\ 2.9169 & 4.1326 & 1 & \mathbf{0.5166} \\ \mathbf{5.6467} & \mathbf{8} & \mathbf{1.9358} & 1 \end{pmatrix},$$

Example 0.276.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/6 \\ 1 & 1 & 1/6 & 1/9 \\ 2 & 6 & 1 & 1/2 \\ 6 & 9 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.096311 \\ 0.066036 \\ 0.279664 \\ \mathbf{0.557989} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.4585 & 0.3444 & \mathbf{0.1726} \\ 0.6857 & 1 & 0.2361 & \mathbf{0.1183} \\ 2.9038 & 4.2350 & 1 & \mathbf{0.5012} \\ \mathbf{5.7936} & \mathbf{8.4497} & \mathbf{1.9952} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.096182 \\ 0.065948 \\ 0.279290 \\ 0.558580 \end{pmatrix} = 0.998665 \cdot \begin{pmatrix} 0.096311 \\ 0.066036 \\ 0.279664 \\ \mathbf{0.559326} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.4585 & 0.3444 & \mathbf{0.1722} \\ 0.6857 & 1 & 0.2361 & \mathbf{0.1181} \\ 2.9038 & 4.2350 & 1 & \mathbf{1/2} \\ \mathbf{5.8075} & \mathbf{8.4700} & \mathbf{2} & 1 \end{pmatrix},$$

Example 0.277.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/6 \\ 1 & 1 & 1/7 & 1/9 \\ 2 & 7 & 1 & 1/2 \\ 6 & 9 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1342, \quad CR = 0.0506$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.095800 \\ 0.063318 \\ 0.290372 \\ \mathbf{0.550510} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.5130 & 0.3299 & \mathbf{0.1740} \\ 0.6609 & 1 & 0.2181 & \mathbf{0.1150} \\ 3.0310 & 4.5860 & 1 & \mathbf{0.5275} \\ \mathbf{5.7465} & \mathbf{8.6944} & \mathbf{1.8959} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.093982 \\ 0.062116 \\ 0.284860 \\ 0.559043 \end{pmatrix} = 0.981018 \cdot \begin{pmatrix} 0.095800 \\ 0.063318 \\ 0.290372 \\ \mathbf{0.569860} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.5130 & 0.3299 & \mathbf{0.1681} \\ 0.6609 & 1 & 0.2181 & \mathbf{1/9} \\ 3.0310 & 4.5860 & 1 & \mathbf{0.5095} \\ \mathbf{5.9484} & \mathbf{9} & \mathbf{1.9625} & 1 \end{pmatrix},$$

Example 0.278.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/6 \\ 1 & 1 & 1/8 & 1/9 \\ 2 & 8 & 1 & 1/2 \\ 6 & 9 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.095277 \\ 0.061013 \\ 0.300161 \\ 0.543549 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.5616 & 0.3174 & 0.1753 \\ 0.6404 & 1 & 0.2033 & 0.1122 \\ 3.1504 & 4.9196 & 1 & 0.5522 \\ 5.7050 & 8.9088 & 1.8109 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.094749 \\ 0.060675 \\ 0.298499 \\ 0.546076 \end{pmatrix} = 0.994465 \cdot \begin{pmatrix} 0.095277 \\ 0.061013 \\ 0.300161 \\ 0.549116 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.5616 & 0.3174 & 0.1735 \\ 0.6404 & 1 & 0.2033 & 1/9 \\ 3.1504 & 4.9196 & 1 & 0.5466 \\ 5.7634 & 9 & 1.8294 & 1 \end{pmatrix},$$

Example 0.279.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/7 \\ 1 & 1 & 1/3 & 1/4 \\ 2 & 3 & 1 & 1/6 \\ 7 & 4 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1964, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.086263 \\ 0.095595 \\ 0.177121 \\ 0.641021 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9024 & 0.4870 & 0.1346 \\ 1.1082 & 1 & 0.5397 & 0.1491 \\ 2.0533 & 1.8528 & 1 & 0.2763 \\ 7.4310 & 6.7056 & 3.6191 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.088358 \\ 0.095376 \\ 0.176715 \\ 0.639551 \end{pmatrix} = 0.997709 \cdot \begin{pmatrix} 0.088561 \\ 0.095595 \\ 0.177121 \\ 0.641021 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9264 & 1/2 & 0.1382 \\ 1.0794 & 1 & 0.5397 & 0.1491 \\ 2 & 1.8528 & 1 & 0.2763 \\ 7.2382 & 6.7056 & 3.6191 & 1 \end{pmatrix},$$

Example 0.280.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/7 \\ 1 & 1 & 1/3 & 1/5 \\ 2 & 3 & 1 & 1/5 \\ 7 & 5 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1027, \quad CR = 0.0387$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.087852 \\ 0.089269 \\ 0.184117 \\ 0.638762 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9841 & 0.4772 & 0.1375 \\ 1.0161 & 1 & 0.4848 & 0.1398 \\ 2.0958 & 2.0625 & 1 & 0.2882 \\ 7.2709 & 7.1555 & 3.4693 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.089143 \\ 0.089143 \\ 0.183857 \\ 0.637858 \end{pmatrix} = 0.998586 \cdot \begin{pmatrix} 0.089269 \\ 0.089269 \\ 0.184117 \\ 0.638762 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.4848 & 0.1398 \\ 1 & 1 & 0.4848 & 0.1398 \\ 2.0625 & 2.0625 & 1 & 0.2882 \\ 7.1555 & 7.1555 & 3.4693 & 1 \end{pmatrix},$$

Example 0.281.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/7 \\ 1 & 1 & 1/3 & 1/5 \\ 2 & 3 & 1 & 1/6 \\ 7 & 5 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1417, \quad CR = 0.0534$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.084904 \\ 0.087036 \\ 0.171963 \\ 0.656097 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9755 & 0.4937 & 0.1294 \\ 1.0251 & 1 & 0.5061 & 0.1327 \\ 2.0254 & 1.9758 & 1 & 0.2621 \\ 7.7275 & 7.5382 & 3.8153 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.085889 \\ 0.086942 \\ 0.171778 \\ 0.655390 \end{pmatrix} = 0.998926 \cdot \begin{pmatrix} 0.085982 \\ 0.087036 \\ 0.171963 \\ 0.656097 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9879 & 1/2 & 0.1311 \\ 1.0123 & 1 & 0.5061 & 0.1327 \\ 2 & 1.9758 & 1 & 0.2621 \\ 7.6307 & 7.5382 & 3.8153 & 1 \end{pmatrix},$$

Example 0.282.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/7 \\ 1 & 1 & 1/4 & 1/4 \\ 2 & 4 & 1 & 1/5 \\ 7 & 4 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2287, \quad CR = 0.0862$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.087078 \\ 0.090640 \\ 0.204502 \\ 0.617780 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9607 & 0.4258 & 0.1410 \\ 1.0409 & 1 & 0.4432 & 0.1467 \\ 2.3485 & 2.2562 & 1 & 0.3310 \\ 7.0946 & 6.8158 & 3.0209 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.088151 \\ 0.090534 \\ 0.204262 \\ 0.617054 \end{pmatrix} = 0.998827 \cdot \begin{pmatrix} 0.088254 \\ 0.090640 \\ 0.204502 \\ 0.617780 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9737 & 0.4316 & 1/7 \\ 1.0270 & 1 & 0.4432 & 0.1467 \\ 2.3172 & 2.2562 & 1 & 0.3310 \\ 7 & 6.8157 & 3.0209 & 1 \end{pmatrix},$$

Example 0.283.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/8 \\ 1 & 1 & 1/3 & 1/4 \\ 2 & 3 & 1 & 1/7 \\ 8 & 4 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2421, \quad CR = 0.0913$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.079432 \\ 0.092561 \\ 0.163911 \\ 0.664096 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8582 & 0.4846 & 0.1196 \\ 1.1653 & 1 & 0.5647 & 0.1394 \\ 2.0635 & 1.7708 & 1 & 0.2468 \\ 8.3605 & 7.1747 & 4.0516 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.081749 \\ 0.092328 \\ 0.163498 \\ 0.662425 \end{pmatrix} = 0.997484 \cdot \begin{pmatrix} 0.081955 \\ 0.092561 \\ 0.163911 \\ 0.664096 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8854 & 1/2 & 0.1234 \\ 1.1294 & 1 & 0.5647 & 0.1394 \\ 2 & 1.7708 & 1 & 0.2468 \\ 8.1031 & 7.1747 & 4.0516 & 1 \end{pmatrix},$$

Example 0.284.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/8 \\ 1 & 1 & 1/3 & 1/5 \\ 2 & 3 & 1 & 1/6 \\ 8 & 5 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1406, \quad CR = 0.0530$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.080678 \\ 0.085925 \\ 0.168730 \\ 0.664667 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9389 & 0.4781 & 0.1214 \\ 1.0650 & 1 & 0.5092 & 0.1293 \\ 2.0914 & 1.9637 & 1 & 0.2539 \\ 8.2385 & 7.7354 & 3.9392 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.082884 \\ 0.085719 \\ 0.168325 \\ 0.663072 \end{pmatrix} = 0.997605 \cdot \begin{pmatrix} 0.083083 \\ 0.085925 \\ 0.168730 \\ 0.664667 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9669 & 0.4924 & 1/8 \\ 1.0342 & 1 & 0.5092 & 0.1293 \\ 2.0309 & 1.9637 & 1 & 0.2539 \\ 8 & 7.7354 & 3.9392 & 1 \end{pmatrix},$$

Example 0.285.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/8 \\ 1 & 1 & 1/3 & 1/5 \\ 2 & 3 & 1 & 1/7 \\ 8 & 5 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1782, \quad CR = 0.0672$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.078136 \\ 0.083982 \\ 0.158961 \\ 0.678921 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9304 & 0.4915 & 0.1151 \\ 1.0748 & 1 & 0.5283 & 0.1237 \\ 2.0344 & 1.8928 & 1 & 0.2341 \\ 8.6890 & 8.0842 & 4.2710 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.079374 \\ 0.083869 \\ 0.158748 \\ 0.678010 \end{pmatrix} = 0.998655 \cdot \begin{pmatrix} 0.079481 \\ 0.083982 \\ 0.158961 \\ 0.678921 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9464 & 1/2 & 0.1171 \\ 1.0566 & 1 & 0.5283 & 0.1237 \\ 2 & 1.8928 & 1 & 0.2341 \\ 8.5420 & 8.0842 & 4.2710 & 1 \end{pmatrix},$$

Example 0.286.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/8 \\ 1 & 1 & 1/3 & 1/6 \\ 2 & 3 & 1 & 1/6 \\ 8 & 6 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.079399 \\ 0.079589 \\ 0.164454 \\ 0.676557 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9976 & 0.4828 & 0.1174 \\ 1.0024 & 1 & 0.4840 & 0.1176 \\ 2.0712 & 2.0663 & 1 & 0.2431 \\ 8.5210 & 8.5006 & 4.1140 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.079574 \\ 0.079574 \\ 0.164423 \\ 0.676429 \end{pmatrix} = 0.999807 \cdot \begin{pmatrix} 0.079589 \\ 0.079589 \\ 0.164454 \\ 0.676557 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.4840 & 0.1176 \\ 1 & 1 & 0.4840 & 0.1176 \\ 2.0663 & 2.0663 & 1 & 0.2431 \\ 8.5006 & 8.5006 & 4.1140 & 1 \end{pmatrix},$$

Example 0.287.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/8 \\ 1 & 1 & 1/3 & 1/6 \\ 2 & 3 & 1 & 1/7 \\ 8 & 6 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1365, \quad CR = 0.0515$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.076971 \\ 0.077688 \\ 0.154838 \\ 0.690503 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9908 & 0.4971 & 0.1115 \\ 1.0093 & 1 & 0.5017 & 0.1125 \\ 2.0116 & 1.9931 & 1 & 0.2242 \\ 8.9709 & 8.8882 & 4.4595 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.077384 \\ 0.077653 \\ 0.154769 \\ 0.690194 \end{pmatrix} = 0.999553 \cdot \begin{pmatrix} 0.077419 \\ 0.077688 \\ 0.154838 \\ 0.690503 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9965 & 1/2 & 0.1121 \\ 1.0035 & 1 & 0.5017 & 0.1125 \\ 2 & 1.9931 & 1 & 0.2242 \\ 8.9190 & 8.8882 & 4.4595 & 1 \end{pmatrix},$$

Example 0.288.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/8 \\ 1 & 1 & 1/4 & 1/5 \\ 2 & 4 & 1 & 1/6 \\ 8 & 5 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2162, \quad CR = 0.0815$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.078715 \\ 0.079644 \\ 0.182175 \\ 0.659466 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9883 & 0.4321 & 0.1194 \\ 1.0118 & 1 & 0.4372 & 0.1208 \\ 2.3144 & 2.2874 & 1 & 0.2762 \\ 8.3779 & 8.2802 & 3.6200 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.079570 \\ 0.079570 \\ 0.182006 \\ 0.658854 \end{pmatrix} = 0.999072 \cdot \begin{pmatrix} 0.079644 \\ 0.079644 \\ 0.182175 \\ 0.659466 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.4372 & 0.1208 \\ 1 & 1 & 0.4372 & 0.1208 \\ 2.2874 & 2.2874 & 1 & 0.2762 \\ 8.2802 & 8.2802 & 3.6200 & 1 \end{pmatrix},$$

Example 0.289.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/8 \\ 1 & 1 & 1/4 & 1/5 \\ 2 & 4 & 1 & 1/7 \\ 8 & 5 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2610, \quad CR = 0.0984$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.076047 \\ 0.077845 \\ 0.171673 \\ 0.674435 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9769 & 0.4430 & 0.1128 \\ 1.0236 & 1 & 0.4535 & 0.1154 \\ 2.2575 & 2.2053 & 1 & 0.2545 \\ 8.8687 & 8.6638 & 3.9286 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.077706 \\ 0.077706 \\ 0.171365 \\ 0.673224 \end{pmatrix} = 0.998206 \cdot \begin{pmatrix} 0.077845 \\ 0.077845 \\ 0.171673 \\ 0.674435 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.4535 & 0.1154 \\ 1 & 1 & 0.4535 & 0.1154 \\ 2.2053 & 2.2053 & 1 & 0.2545 \\ 8.6638 & 8.6638 & 3.9286 & 1 \end{pmatrix},$$

Example 0.290.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/9 \\ 1 & 1 & 1/3 & 1/5 \\ 2 & 3 & 1 & 1/7 \\ 9 & 5 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1786, \quad CR = 0.0673$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.074680 \\ 0.083044 \\ 0.156202 \\ 0.686075 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8993 & 0.4781 & 0.1089 \\ 1.1120 & 1 & 0.5316 & 0.1210 \\ 2.0916 & 1.8810 & 1 & 0.2277 \\ 9.1869 & 8.2616 & 4.3922 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.076113 \\ 0.082915 \\ 0.155960 \\ 0.685012 \end{pmatrix} = 0.998454 \cdot \begin{pmatrix} 0.076230 \\ 0.083044 \\ 0.156202 \\ 0.686075 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9180 & 0.4880 & 1/9 \\ 1.0894 & 1 & 0.5316 & 0.1210 \\ 2.0491 & 1.8810 & 1 & 0.2277 \\ 9 & 8.2616 & 4.3922 & 1 \end{pmatrix},$$

Example 0.291.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/9 \\ 1 & 1 & 1/3 & 1/5 \\ 2 & 3 & 1 & 1/8 \\ 9 & 5 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2146, \quad CR = 0.0809$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.072470 \\ 0.081335 \\ 0.148136 \\ 0.698059 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8910 & 0.4892 & 0.1038 \\ 1.1223 & 1 & 0.5491 & 0.1165 \\ 2.0441 & 1.8213 & 1 & 0.2122 \\ 9.6323 & 8.5825 & 4.7123 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.073950 \\ 0.081205 \\ 0.147900 \\ 0.696945 \end{pmatrix} = 0.998403 \cdot \begin{pmatrix} 0.074068 \\ 0.081335 \\ 0.148136 \\ 0.698059 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9107 & 1/2 & 0.1061 \\ 1.0981 & 1 & 0.5491 & 0.1165 \\ 2 & 1.8213 & 1 & 0.2122 \\ 9.4245 & 8.5825 & 4.7123 & 1 \end{pmatrix},$$

Example 0.292.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/9 \\ 1 & 1 & 1/3 & 1/5 \\ 2 & 3 & 1 & 1/9 \\ 9 & 5 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2508, \quad CR = 0.0946$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.070467 \\ 0.079750 \\ 0.141173 \\ 0.708610 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8836 & 0.4992 & 0.0994 \\ 1.1317 & 1 & 0.5649 & 0.1125 \\ 2.0034 & 1.7702 & 1 & 0.1992 \\ 10.0559 & 8.8854 & 5.0194 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.070578 \\ 0.079740 \\ 0.141156 \\ 0.708525 \end{pmatrix} = 0.999884 \cdot \begin{pmatrix} 0.070586 \\ 0.079750 \\ 0.141173 \\ 0.708610 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.8851 & 1/2 & 0.0996 \\ 1.1298 & 1 & 0.5649 & 0.1125 \\ 2 & 1.7702 & 1 & 0.1992 \\ 10.0389 & 8.8854 & 5.0194 & 1 \end{pmatrix},$$

Example 0.293.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/9 \\ 1 & 1 & 1/3 & 1/6 \\ 2 & 3 & 1 & 1/6 \\ 9 & 6 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.075830 \\ 0.078531 \\ 0.161536 \\ 0.684103 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9656 & 0.4694 & 0.1108 \\ 1.0356 & 1 & 0.4861 & 0.1148 \\ 2.1303 & 2.0570 & 1 & 0.2361 \\ 9.0216 & 8.7113 & 4.2350 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.075998 \\ 0.078517 \\ 0.161507 \\ 0.683979 \end{pmatrix} = 0.999819 \cdot \begin{pmatrix} 0.076011 \\ 0.078531 \\ 0.161536 \\ 0.684103 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9679 & 0.4706 & 1/9 \\ 1.0331 & 1 & 0.4861 & 0.1148 \\ 2.1252 & 2.0570 & 1 & 0.2361 \\ 9 & 8.7113 & 4.2350 & 1 \end{pmatrix},$$

Example 0.294.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/9 \\ 1 & 1 & 1/3 & 1/6 \\ 2 & 3 & 1 & 1/7 \\ 9 & 6 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1342, \quad CR = 0.0506$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.073483 \\ 0.076725 \\ 0.152130 \\ 0.697663 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9577 & 0.4830 & 0.1053 \\ 1.0441 & 1 & 0.5043 & 0.1100 \\ 2.0703 & 1.9828 & 1 & 0.2181 \\ 9.4943 & 9.0931 & 4.5860 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.075869 \\ 0.076527 \\ 0.151739 \\ 0.695865 \end{pmatrix} = 0.997425 \cdot \begin{pmatrix} 0.076065 \\ 0.076725 \\ 0.152130 \\ 0.697663 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9914 & 1/2 & 0.1090 \\ 1.0087 & 1 & 0.5043 & 0.1100 \\ 2 & 1.9828 & 1 & 0.2181 \\ 9.1719 & 9.0931 & 4.5859 & 1 \end{pmatrix},$$

Example 0.295.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/9 \\ 1 & 1 & 1/3 & 1/6 \\ 2 & 3 & 1 & 1/8 \\ 9 & 6 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.071366 \\ 0.075057 \\ 0.144194 \\ 0.709382 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9508 & 0.4949 & 0.1006 \\ 1.0517 & 1 & 0.5205 & 0.1058 \\ 2.0205 & 1.9211 & 1 & 0.2033 \\ 9.9400 & 9.4512 & 4.9196 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.072044 \\ 0.075002 \\ 0.144089 \\ 0.708864 \end{pmatrix} = 0.999269 \cdot \begin{pmatrix} 0.072097 \\ 0.075057 \\ 0.144194 \\ 0.709382 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9606 & 1/2 & 0.1016 \\ 1.0411 & 1 & 0.5205 & 0.1058 \\ 2 & 1.9211 & 1 & 0.2033 \\ 9.8393 & 9.4512 & 4.9196 & 1 \end{pmatrix},$$

Example 0.296.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/9 \\ 1 & 1 & 1/4 & 1/5 \\ 2 & 4 & 1 & 1/7 \\ 9 & 5 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2614, \quad CR = 0.0986$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.072726 \\ 0.077029 \\ 0.168915 \\ 0.681330 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9441 & 0.4306 & 0.1067 \\ 1.0592 & 1 & 0.4560 & 0.1131 \\ 2.3226 & 2.1929 & 1 & 0.2479 \\ 9.3684 & 8.8451 & 4.0336 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.075479 \\ 0.076800 \\ 0.168414 \\ 0.679307 \end{pmatrix} = 0.997029 \cdot \begin{pmatrix} 0.075704 \\ 0.077029 \\ 0.168915 \\ 0.681330 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9828 & 0.4482 & 1/9 \\ 1.0175 & 1 & 0.4560 & 0.1131 \\ 2.2313 & 2.1929 & 1 & 0.2479 \\ 9 & 8.8451 & 4.0336 & 1 \end{pmatrix},$$

Example 0.297.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/2 & 1/9 \\ 1 & 1 & 1/4 & 1/6 \\ 2 & 4 & 1 & 1/8 \\ 9 & 6 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.069549 \\ 0.069605 \\ 0.155735 \\ 0.705112 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9992 & 0.4466 & 0.0986 \\ 1.0008 & 1 & 0.4469 & 0.0987 \\ 2.2392 & 2.2374 & 1 & 0.2209 \\ 10.1384 & 10.1302 & 4.5276 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.069601 \\ 0.069601 \\ 0.155725 \\ 0.705073 \end{pmatrix} = 0.999942 \cdot \begin{pmatrix} 0.069605 \\ 0.069605 \\ 0.155735 \\ 0.705112 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.4469 & 0.0987 \\ 1 & 1 & 0.4469 & 0.0987 \\ 2.2374 & 2.2374 & 1 & 0.2209 \\ 10.1302 & 10.1302 & 4.5277 & 1 \end{pmatrix},$$

Example 0.298.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/5 \\ 1 & 1 & 1/5 & 1/3 \\ 3 & 5 & 1 & 3 \\ 5 & 3 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2253, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.100092 \\ 0.093243 \\ 0.511864 \\ 0.294801 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0735 & 0.1955 & 0.3395 \\ 0.9316 & 1 & 0.1822 & 0.3163 \\ 5.1139 & 5.4896 & 1 & 1.7363 \\ 2.9453 & 3.1617 & 0.5759 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.099592 \\ 0.097776 \\ 0.509305 \\ 0.293327 \end{pmatrix} = 0.995001 \cdot \begin{pmatrix} 0.100092 \\ 0.098267 \\ 0.511864 \\ 0.294801 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0186 & 0.1955 & 0.3395 \\ 0.9818 & 1 & 0.1920 & 1/3 \\ 5.1139 & 5.2089 & 1 & 1.7363 \\ 2.9453 & 3 & 0.5759 & 1 \end{pmatrix},$$

Example 0.299.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/6 \\ 1 & 1 & 1/4 & 1/4 \\ 3 & 4 & 1 & 1/3 \\ 6 & 4 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.088605 \\ 0.094375 \\ 0.266452 \\ 0.550567 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9389 & 0.3325 & 0.1609 \\ 1.0651 & 1 & 0.3542 & 0.1714 \\ 3.0072 & 2.8233 & 1 & 0.4840 \\ 6.2137 & 5.8338 & 2.0663 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.088799 \\ 0.094355 \\ 0.266396 \\ 0.550450 \end{pmatrix} = 0.999790 \cdot \begin{pmatrix} 0.088817 \\ 0.094375 \\ 0.266452 \\ 0.550567 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9411 & 1/3 & 0.1613 \\ 1.0626 & 1 & 0.3542 & 0.1714 \\ 3 & 2.8233 & 1 & 0.4840 \\ 6.1989 & 5.8338 & 2.0663 & 1 \end{pmatrix},$$

Example 0.300.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/6 \\ 1 & 1 & 1/5 & 1/4 \\ 3 & 5 & 1 & 2 \\ 6 & 4 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.094669 \\ 0.087304 \\ 0.456212 \\ 0.361814 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0844 & 0.2075 & 0.2616 \\ 0.9222 & 1 & 0.1914 & 0.2413 \\ 4.8190 & 5.2255 & 1 & 1.2609 \\ 3.8219 & 4.1443 & 0.7931 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.094372 \\ 0.090170 \\ 0.454780 \\ 0.360679 \end{pmatrix} = 0.996861 \cdot \begin{pmatrix} 0.094669 \\ 0.090454 \\ 0.456212 \\ 0.361814 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0466 & 0.2075 & 0.2616 \\ 0.9555 & 1 & 0.1983 & 1/4 \\ 4.8190 & 5.0436 & 1 & 1.2609 \\ 3.8219 & 4 & 0.7931 & 1 \end{pmatrix},$$

Example 0.301.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/6 \\ 1 & 1 & 1/5 & 1/4 \\ 3 & 5 & 1 & 1/3 \\ 6 & 4 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1502, \quad CR = 0.0566$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.086578 \\ 0.088497 \\ 0.280516 \\ 0.544409 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9783 & 0.3086 & 0.1590 \\ 1.0222 & 1 & 0.3155 & 0.1626 \\ 3.2401 & 3.1698 & 1 & 0.5153 \\ 6.2881 & 6.1517 & 1.9407 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.088327 \\ 0.088327 \\ 0.279979 \\ 0.543366 \end{pmatrix} = 0.998082 \cdot \begin{pmatrix} 0.088497 \\ 0.088497 \\ 0.280516 \\ 0.544409 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.3155 & 0.1626 \\ 1 & 1 & 0.3155 & 0.1626 \\ 3.1698 & 3.1698 & 1 & 0.5153 \\ 6.1517 & 6.1517 & 1.9407 & 1 \end{pmatrix},$$

Example 0.302.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/6 \\ 1 & 1 & 1/5 & 1/4 \\ 3 & 5 & 1 & 1/4 \\ 6 & 4 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.082744 \\ 0.086067 \\ 0.254868 \\ 0.576321 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9614 & 0.3247 & 0.1436 \\ 1.0401 & 1 & 0.3377 & 0.1493 \\ 3.0802 & 2.9613 & 1 & 0.4422 \\ 6.9651 & 6.6962 & 2.2613 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.084769 \\ 0.085876 \\ 0.254306 \\ 0.575049 \end{pmatrix} = 0.997791 \cdot \begin{pmatrix} 0.084956 \\ 0.086067 \\ 0.254868 \\ 0.576321 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9871 & 1/3 & 0.1474 \\ 1.0131 & 1 & 0.3377 & 0.1493 \\ 3 & 2.9613 & 1 & 0.4422 \\ 6.7838 & 6.6962 & 2.2612 & 1 \end{pmatrix},$$

Example 0.303.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/7 \\ 1 & 1 & 1/5 & 1/4 \\ 3 & 5 & 1 & 2 \\ 7 & 4 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2057, \quad CR = 0.0776$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.090159 \\ 0.085391 \\ 0.450725 \\ 0.373725 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0558 & 0.2000 & 0.2412 \\ 0.9471 & 1 & 0.1895 & 0.2285 \\ 4.9992 & 5.2784 & 1 & 1.2060 \\ 4.1452 & 4.3766 & 0.8292 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.089733 \\ 0.089718 \\ 0.448593 \\ 0.371956 \end{pmatrix} = 0.995268 \cdot \begin{pmatrix} 0.090159 \\ 0.090145 \\ 0.450725 \\ 0.373725 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0002 & 0.2000 & 0.2412 \\ 0.9998 & 1 & 1/5 & 0.2412 \\ 4.9992 & 5 & 1 & 1.2060 \\ 4.1452 & 4.1458 & 0.8292 & 1 \end{pmatrix},$$

Example 0.304.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/7 \\ 1 & 1 & 1/5 & 1/4 \\ 3 & 5 & 1 & 1/4 \\ 7 & 4 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2251, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.078268 \\ 0.085230 \\ 0.250376 \\ 0.586125 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9183 & 0.3126 & 0.1335 \\ 1.0890 & 1 & 0.3404 & 0.1454 \\ 3.1990 & 2.9377 & 1 & 0.4272 \\ 7.4887 & 6.8770 & 2.3410 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.083028 \\ 0.084790 \\ 0.249084 \\ 0.583098 \end{pmatrix} = 0.994837 \cdot \begin{pmatrix} 0.083459 \\ 0.085230 \\ 0.250376 \\ 0.586125 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9792 & 1/3 & 0.1424 \\ 1.0212 & 1 & 0.3404 & 0.1454 \\ 3 & 2.9377 & 1 & 0.4272 \\ 7.0229 & 6.8770 & 2.3410 & 1 \end{pmatrix},$$

Example 0.305.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/7 \\ 1 & 1 & 1/5 & 1/5 \\ 3 & 5 & 1 & 1/4 \\ 7 & 5 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1667, \quad CR = 0.0629$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.077325 \\ 0.077779 \\ 0.243538 \\ 0.601358 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9942 & 0.3175 & 0.1286 \\ 1.0059 & 1 & 0.3194 & 0.1293 \\ 3.1495 & 3.1311 & 1 & 0.4050 \\ 7.7770 & 7.7316 & 2.4693 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.077744 \\ 0.077744 \\ 0.243427 \\ 0.601085 \end{pmatrix} = 0.999547 \cdot \begin{pmatrix} 0.077779 \\ 0.077779 \\ 0.243538 \\ 0.601358 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.3194 & 0.1293 \\ 1 & 1 & 0.3194 & 0.1293 \\ 3.1311 & 3.1311 & 1 & 0.4050 \\ 7.7316 & 7.7316 & 2.4693 & 1 \end{pmatrix},$$

Example 0.306.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/7 \\ 1 & 1 & 1/5 & 1/5 \\ 3 & 5 & 1 & 1/5 \\ 7 & 5 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2309, \quad CR = 0.0871$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.074236 \\ 0.075604 \\ 0.224654 \\ 0.625507 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9819 & 0.3304 & 0.1187 \\ 1.0184 & 1 & 0.3365 & 0.1209 \\ 3.0262 & 2.9715 & 1 & 0.3592 \\ 8.4260 & 8.2735 & 2.7843 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.074836 \\ 0.075555 \\ 0.224508 \\ 0.625101 \end{pmatrix} = 0.999354 \cdot \begin{pmatrix} 0.074884 \\ 0.075604 \\ 0.224654 \\ 0.625507 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9905 & 1/3 & 0.1197 \\ 1.0096 & 1 & 0.3365 & 0.1209 \\ 3 & 2.9715 & 1 & 0.3592 \\ 8.3529 & 8.2735 & 2.7843 & 1 \end{pmatrix},$$

Example 0.307.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/7 \\ 1 & 1 & 1/6 & 1/5 \\ 3 & 6 & 1 & 2 \\ 7 & 5 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2095, \quad CR = 0.0790$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.087765 \\ 0.074774 \\ 0.458175 \\ 0.379286 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1737 & 0.1916 & 0.2314 \\ 0.8520 & 1 & 0.1632 & 0.1971 \\ 5.2204 & 6.1275 & 1 & 1.2080 \\ 4.3216 & 5.0724 & 0.8278 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.087671 \\ 0.075775 \\ 0.457679 \\ 0.378875 \end{pmatrix} = 0.998918 \cdot \begin{pmatrix} 0.087765 \\ 0.075857 \\ 0.458175 \\ 0.379286 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1570 & 0.1916 & 0.2314 \\ 0.8643 & 1 & 0.1656 & 1/5 \\ 5.2204 & 6.0400 & 1 & 1.2080 \\ 4.3216 & 5 & 0.8278 & 1 \end{pmatrix},$$

Example 0.308.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/8 \\ 1 & 1 & 1/4 & 1/5 \\ 3 & 4 & 1 & 1/4 \\ 8 & 5 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1163, \quad CR = 0.0439$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.075257 \\ 0.081884 \\ 0.226962 \\ 0.615897 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9191 & 0.3316 & 0.1222 \\ 1.0881 & 1 & 0.3608 & 0.1330 \\ 3.0158 & 2.7717 & 1 & 0.3685 \\ 8.1839 & 7.5215 & 2.7137 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.075624 \\ 0.081852 \\ 0.226872 \\ 0.615653 \end{pmatrix} = 0.999601 \cdot \begin{pmatrix} 0.075654 \\ 0.081884 \\ 0.226962 \\ 0.615897 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9239 & 1/3 & 0.1228 \\ 1.0824 & 1 & 0.3608 & 0.1330 \\ 3 & 2.7717 & 1 & 0.3685 \\ 8.1410 & 7.5216 & 2.7137 & 1 \end{pmatrix},$$

Example 0.309.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/8 \\ 1 & 1 & 1/5 & 1/4 \\ 3 & 5 & 1 & 2 \\ 8 & 4 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.086329 \\ 0.083657 \\ 0.445536 \\ 0.384477 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0319 & 0.1938 & 0.2245 \\ 0.9690 & 1 & 0.1878 & 0.2176 \\ 5.1609 & 5.3257 & 1 & 1.1588 \\ 4.4536 & 4.5959 & 0.8630 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.086099 \\ 0.086099 \\ 0.444349 \\ 0.383453 \end{pmatrix} = 0.997335 \cdot \begin{pmatrix} 0.086329 \\ 0.086329 \\ 0.445536 \\ 0.384477 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.1938 & 0.2245 \\ 1 & 1 & 0.1938 & 0.2245 \\ 5.1609 & 5.1609 & 1 & 1.1588 \\ 4.4536 & 4.4536 & 0.8630 & 1 \end{pmatrix},$$

Example 0.310.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/8 \\ 1 & 1 & 1/5 & 1/5 \\ 3 & 5 & 1 & 2 \\ 8 & 5 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.084541 \\ 0.077664 \\ 0.441767 \\ 0.396028 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0885 & 0.1914 & 0.2135 \\ 0.9187 & 1 & 0.1758 & 0.1961 \\ 5.2255 & 5.6882 & 1 & 1.1155 \\ 4.6845 & 5.0993 & 0.8965 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.084410 \\ 0.079084 \\ 0.441087 \\ 0.395419 \end{pmatrix} = 0.998460 \cdot \begin{pmatrix} 0.084541 \\ 0.079206 \\ 0.441767 \\ 0.396028 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0674 & 0.1914 & 0.2135 \\ 0.9369 & 1 & 0.1793 & 1/5 \\ 5.2255 & 5.5775 & 1 & 1.1155 \\ 4.6845 & 5 & 0.8965 & 1 \end{pmatrix},$$

Example 0.311.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/8 \\ 1 & 1 & 1/5 & 1/5 \\ 3 & 5 & 1 & 1/4 \\ 8 & 5 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.073601 \\ 0.076921 \\ 0.239429 \\ 0.610049 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9568 & 0.3074 & 0.1206 \\ 1.0451 & 1 & 0.3213 & 0.1261 \\ 3.2531 & 3.1126 & 1 & 0.3925 \\ 8.2886 & 7.9308 & 2.5479 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.076054 \\ 0.076718 \\ 0.238795 \\ 0.608433 \end{pmatrix} = 0.997351 \cdot \begin{pmatrix} 0.076256 \\ 0.076921 \\ 0.239429 \\ 0.610049 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9914 & 0.3185 & 1/8 \\ 1.0087 & 1 & 0.3213 & 0.1261 \\ 3.1398 & 3.1127 & 1 & 0.3925 \\ 8 & 7.9308 & 2.5479 & 1 \end{pmatrix},$$

Example 0.312.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/8 \\ 1 & 1 & 1/5 & 1/5 \\ 3 & 5 & 1 & 1/5 \\ 8 & 5 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2259, \quad CR = 0.0852$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.070590 \\ 0.074863 \\ 0.220964 \\ 0.633583 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9429 & 0.3195 & 0.1114 \\ 1.0605 & 1 & 0.3388 & 0.1182 \\ 3.1302 & 2.9516 & 1 & 0.3488 \\ 8.9755 & 8.4632 & 2.8674 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.073430 \\ 0.074634 \\ 0.220289 \\ 0.631647 \end{pmatrix} = 0.996946 \cdot \begin{pmatrix} 0.073655 \\ 0.074863 \\ 0.220964 \\ 0.633583 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9839 & 1/3 & 0.1163 \\ 1.0164 & 1 & 0.3388 & 0.1182 \\ 3 & 2.9516 & 1 & 0.3488 \\ 8.6021 & 8.4632 & 2.8674 & 1 \end{pmatrix},$$

Example 0.313.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/8 \\ 1 & 1 & 1/6 & 1/5 \\ 3 & 6 & 1 & 2 \\ 8 & 5 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.084073 \\ \mathbf{0.073173} \\ 0.453058 \\ 0.389697 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{1.1490} & 0.1856 & 0.2157 \\ \mathbf{0.8703} & 1 & \mathbf{0.1615} & \mathbf{0.1878} \\ 5.3889 & \mathbf{6.1916} & 1 & 1.1626 \\ 4.6352 & \mathbf{5.3257} & 0.8601 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.083877 \\ 0.075334 \\ 0.452002 \\ 0.388788 \end{pmatrix} = 0.997668 \cdot \begin{pmatrix} 0.084073 \\ \mathbf{0.075510} \\ 0.453058 \\ 0.389697 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{1.1134} & 0.1856 & 0.2157 \\ \mathbf{0.8981} & 1 & \mathbf{1/6} & \mathbf{0.1938} \\ 5.3889 & \mathbf{6} & 1 & 1.1626 \\ 4.6352 & \mathbf{5.1609} & 0.8601 & 1 \end{pmatrix},$$

Example 0.314.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/8 \\ 1 & 1 & 1/6 & 1/5 \\ 3 & 6 & 1 & 1/4 \\ 8 & 5 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2162, \quad CR = 0.0815$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.072144 \\ 0.072995 \\ 0.250450 \\ 0.604412 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9883 & 0.2881 & 0.1194 \\ 1.0118 & 1 & 0.2915 & 0.1208 \\ 3.4716 & 3.4311 & 1 & 0.4144 \\ 8.3779 & 8.2802 & 2.4133 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.072933 \\ 0.072933 \\ 0.250237 \\ 0.603898 \end{pmatrix} = 0.999149 \cdot \begin{pmatrix} 0.072995 \\ 0.072995 \\ 0.250450 \\ 0.604412 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.2915 & 0.1208 \\ 1 & 1 & 0.2915 & 0.1208 \\ 3.4311 & 3.4311 & 1 & 0.4144 \\ 8.2802 & 8.2802 & 2.4133 & 1 \end{pmatrix},$$

Example 0.315.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/9 \\ 1 & 1 & 1/4 & 1/7 \\ 3 & 4 & 1 & 1/4 \\ 9 & 7 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0576, \quad CR = 0.0217$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.069810 \\ 0.070481 \\ 0.213531 \\ 0.646178 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9905 & 0.3269 & 0.1080 \\ 1.0096 & 1 & 0.3301 & 0.1091 \\ 3.0587 & 3.0296 & 1 & 0.3305 \\ 9.2562 & 9.1682 & 3.0262 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.070433 \\ 0.070433 \\ 0.213387 \\ 0.645746 \end{pmatrix} = 0.999331 \cdot \begin{pmatrix} 0.070481 \\ 0.070481 \\ 0.213531 \\ 0.646178 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.3301 & 0.1091 \\ 1 & 1 & 0.3301 & 0.1091 \\ 3.0296 & 3.0296 & 1 & 0.3305 \\ 9.1682 & 9.1682 & 3.0262 & 1 \end{pmatrix},$$

Example 0.316.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/9 \\ 1 & 1 & 1/5 & 1/5 \\ 3 & 5 & 1 & 1/5 \\ 9 & 5 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2253, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.067553 \\ 0.074167 \\ 0.217545 \\ 0.640735 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9108 & 0.3105 & 0.1054 \\ 1.0979 & 1 & 0.3409 & 0.1158 \\ 3.2204 & 2.9332 & 1 & 0.3395 \\ 9.4850 & 8.6390 & 2.9453 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.070935 \\ 0.073898 \\ 0.216756 \\ 0.638411 \end{pmatrix} = 0.996370 \cdot \begin{pmatrix} 0.071193 \\ 0.074167 \\ 0.217545 \\ 0.640735 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9599 & 0.3273 & 1/9 \\ 1.0418 & 1 & 0.3409 & 0.1158 \\ 3.0557 & 2.9332 & 1 & 0.3395 \\ 9 & 8.6391 & 2.9453 & 1 \end{pmatrix},$$

Example 0.317.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/9 \\ 1 & 1 & 1/5 & 1/6 \\ 3 & 5 & 1 & 1/4 \\ 9 & 6 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1252, \quad CR = 0.0472$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.069502 \\ 0.070552 \\ 0.229985 \\ 0.629961 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9851 & 0.3022 & 0.1103 \\ 1.0151 & 1 & 0.3068 & 0.1120 \\ 3.3091 & 3.2598 & 1 & 0.3651 \\ 9.0639 & 8.9290 & 2.7391 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.069961 \\ 0.070517 \\ 0.229872 \\ 0.629650 \end{pmatrix} = 0.999509 \cdot \begin{pmatrix} 0.069995 \\ 0.070552 \\ 0.229985 \\ 0.629961 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9921 & 0.3043 & 1/9 \\ 1.0080 & 1 & 0.3068 & 0.1120 \\ 3.2857 & 3.2598 & 1 & 0.3651 \\ 9 & 8.9290 & 2.7391 & 1 \end{pmatrix},$$

Example 0.318.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/9 \\ 1 & 1 & 1/5 & 1/6 \\ 3 & 5 & 1 & 1/5 \\ 9 & 6 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1758, \quad CR = 0.0663$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.066698 \\ 0.068606 \\ 0.212115 \\ 0.652581 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9722 & 0.3144 & 0.1022 \\ 1.0286 & 1 & 0.3234 & 0.1051 \\ 3.1803 & 3.0918 & 1 & 0.3250 \\ 9.7842 & 9.5119 & 3.0765 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.068476 \\ 0.068476 \\ 0.211711 \\ 0.651337 \end{pmatrix} = 0.998099 \cdot \begin{pmatrix} 0.068606 \\ 0.068606 \\ 0.212115 \\ 0.652581 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.3234 & 0.1051 \\ 1 & 1 & 0.3234 & 0.1051 \\ 3.0918 & 3.0918 & 1 & 0.3250 \\ 9.5119 & 9.5119 & 3.0765 & 1 \end{pmatrix},$$

Example 0.319.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/3 & 1/9 \\ 1 & 1 & 1/5 & 1/6 \\ 3 & 5 & 1 & 1/6 \\ 9 & 6 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.064235 \\ 0.066814 \\ 0.197855 \\ 0.671097 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9614 & 0.3247 & 0.0957 \\ 1.0401 & 1 & 0.3377 & 0.0996 \\ 3.0802 & 2.9613 & 1 & 0.2948 \\ 10.4476 & 10.0443 & 3.3919 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.065839 \\ 0.066699 \\ 0.197515 \\ 0.669947 \end{pmatrix} = 0.998283 \cdot \begin{pmatrix} 0.065952 \\ 0.066814 \\ 0.197855 \\ 0.671097 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9871 & 1/3 & 0.0983 \\ 1.0131 & 1 & 0.3377 & 0.0996 \\ 3 & 2.9613 & 1 & 0.2948 \\ 10.1756 & 10.0444 & 3.3919 & 1 \end{pmatrix},$$

Example 0.320.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/6 \\ 1 & 1 & 1/6 & 1/4 \\ 4 & 6 & 1 & 2 \\ 6 & 4 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.084125 \\ \mathbf{0.081231} \\ 0.488557 \\ 0.346086 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{1.0356} & 0.1722 & 0.2431 \\ \mathbf{0.9656} & 1 & \mathbf{0.1663} & \mathbf{0.2347} \\ 5.8075 & \mathbf{6.0144} & 1 & 1.4117 \\ 4.1140 & \mathbf{4.2605} & 0.7084 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.084109 \\ 0.081410 \\ 0.488462 \\ 0.346019 \end{pmatrix} = 0.999805 \cdot \begin{pmatrix} 0.084125 \\ \mathbf{0.081426} \\ 0.488557 \\ 0.346086 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{1.0331} & 0.1722 & 0.2431 \\ \mathbf{0.9679} & 1 & \mathbf{1/6} & \mathbf{0.2353} \\ 5.8075 & \mathbf{6} & 1 & 1.4117 \\ 4.1140 & \mathbf{4.2503} & 0.7084 & 1 \end{pmatrix},$$

Example 0.321.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/6 \\ 1 & 1 & 1/7 & 1/4 \\ 4 & 7 & 1 & 3 \\ 6 & 4 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1964, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.081211 \\ \mathbf{0.073283} \\ 0.544566 \\ 0.300940 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{1.1082} & 0.1491 & 0.2699 \\ \mathbf{0.9024} & 1 & \mathbf{0.1346} & \mathbf{0.2435} \\ 6.7056 & \mathbf{7.4310} & 1 & 1.8096 \\ 3.7057 & \mathbf{4.1065} & 0.5526 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.081053 \\ 0.075088 \\ 0.543505 \\ 0.300353 \end{pmatrix} = 0.998053 \cdot \begin{pmatrix} 0.081211 \\ \mathbf{0.075235} \\ 0.544566 \\ 0.300940 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{1.0794} & 0.1491 & 0.2699 \\ \mathbf{0.9264} & 1 & \mathbf{0.1382} & \mathbf{1/4} \\ 6.7056 & \mathbf{7.2382} & 1 & 1.8096 \\ 3.7057 & \mathbf{4} & 0.5526 & 1 \end{pmatrix},$$

Example 0.322.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/6 \\ 1 & 1 & 1/7 & 1/4 \\ 4 & 7 & 1 & 1/2 \\ 6 & 4 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1365, \quad CR = 0.0515$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.079699 \\ 0.080163 \\ 0.357489 \\ 0.482649 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9942 & 0.2229 & 0.1651 \\ 1.0058 & 1 & 0.2242 & 0.1661 \\ 4.4855 & 4.4595 & 1 & 0.7407 \\ 6.0559 & 6.0208 & 1.3501 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.080126 \\ 0.080126 \\ 0.357323 \\ 0.482425 \end{pmatrix} = 0.999535 \cdot \begin{pmatrix} 0.080163 \\ 0.080163 \\ 0.357489 \\ 0.482649 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.2242 & 0.1661 \\ 1 & 1 & 0.2242 & 0.1661 \\ 4.4595 & 4.4595 & 1 & 0.7407 \\ 6.0208 & 6.0208 & 1.3501 & 1 \end{pmatrix},$$

Example 0.323.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/6 \\ 1 & 1 & 1/7 & 1/4 \\ 4 & 7 & 1 & 1/3 \\ 6 & 4 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2421, \quad CR = 0.0913$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.075736 \\ 0.078142 \\ 0.316598 \\ 0.529524 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9692 & 0.2392 & 0.1430 \\ 1.0318 & 1 & 0.2468 & 0.1476 \\ 4.1803 & 4.0516 & 1 & 0.5979 \\ 6.9917 & 6.7764 & 1.6725 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.077954 \\ 0.077954 \\ 0.315838 \\ 0.528253 \end{pmatrix} = 0.997597 \cdot \begin{pmatrix} 0.078142 \\ 0.078142 \\ 0.316598 \\ 0.529524 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.2468 & 0.1476 \\ 1 & 1 & 0.2468 & 0.1476 \\ 4.0516 & 4.0516 & 1 & 0.5979 \\ 6.7764 & 6.7764 & 1.6725 & 1 \end{pmatrix},$$

Example 0.324.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/7 \\ 1 & 1 & 1/6 & 1/5 \\ 4 & 6 & 1 & 1/3 \\ 7 & 5 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1417, \quad CR = 0.0534$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.072446 \\ 0.074265 \\ 0.293462 \\ 0.559827 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9755 & 0.2469 & 0.1294 \\ 1.0251 & 1 & 0.2531 & 0.1327 \\ 4.0508 & 3.9516 & 1 & 0.5242 \\ 7.7275 & 7.5382 & 1.9077 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.073298 \\ 0.074197 \\ 0.293192 \\ 0.559313 \end{pmatrix} = 0.999083 \cdot \begin{pmatrix} 0.073365 \\ 0.074265 \\ 0.293462 \\ 0.559827 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9879 & 1/4 & 0.1311 \\ 1.0123 & 1 & 0.2531 & 0.1327 \\ 4 & 3.9515 & 1 & 0.5242 \\ 7.6307 & 7.5382 & 1.9077 & 1 \end{pmatrix},$$

Example 0.325.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/7 \\ 1 & 1 & 1/7 & 1/4 \\ 4 & 7 & 1 & 3 \\ 7 & 4 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2395, \quad CR = 0.0903$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.077498 \\ 0.071744 \\ 0.539224 \\ 0.311534 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0802 & 0.1437 & 0.2488 \\ 0.9257 & 1 & 0.1331 & 0.2303 \\ 6.9579 & 7.5159 & 1 & 1.7309 \\ 4.0199 & 4.3423 & 0.5777 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.077091 \\ 0.076627 \\ 0.536387 \\ 0.309895 \end{pmatrix} = 0.994741 \cdot \begin{pmatrix} 0.077498 \\ 0.077032 \\ 0.539224 \\ 0.311534 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0061 & 0.1437 & 0.2488 \\ 0.9940 & 1 & 1/7 & 0.2473 \\ 6.9579 & 7 & 1 & 1.7309 \\ 4.0199 & 4.0442 & 0.5777 & 1 \end{pmatrix},$$

Example 0.326.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/8 \\ 1 & 1 & 1/6 & 1/5 \\ 4 & 6 & 1 & 2 \\ 8 & 5 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.075254 \\ 0.072633 \\ 0.472563 \\ 0.379550 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0361 & 0.1592 & 0.1983 \\ 0.9652 & 1 & 0.1537 & 0.1914 \\ 6.2796 & 6.5061 & 1 & 1.2451 \\ 5.0436 & 5.2255 & 0.8032 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.075057 \\ 0.075057 \\ 0.471328 \\ 0.378558 \end{pmatrix} = 0.997388 \cdot \begin{pmatrix} 0.075254 \\ 0.075254 \\ 0.472563 \\ 0.379550 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.1592 & 0.1983 \\ 1 & 1 & 0.1592 & 0.1983 \\ 6.2796 & 6.2796 & 1 & 1.2451 \\ 5.0436 & 5.0436 & 0.8032 & 1 \end{pmatrix},$$

Example 0.327.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/8 \\ 1 & 1 & 1/6 & 1/5 \\ 4 & 6 & 1 & 1/3 \\ 8 & 5 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1406, \quad CR = 0.0530$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.069030 \\ 0.073520 \\ 0.288741 \\ 0.568709 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9389 & 0.2391 & 0.1214 \\ 1.0650 & 1 & 0.2546 & 0.1293 \\ 4.1828 & 3.9274 & 1 & 0.5077 \\ 8.2385 & 7.7354 & 1.9696 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.070943 \\ 0.073369 \\ 0.288148 \\ 0.567540 \end{pmatrix} = 0.997949 \cdot \begin{pmatrix} 0.071088 \\ 0.073520 \\ 0.288741 \\ 0.568709 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9669 & 0.2462 & 1/8 \\ 1.0342 & 1 & 0.2546 & 0.1293 \\ 4.0617 & 3.9274 & 1 & 0.5077 \\ 8 & 7.7354 & 1.9696 & 1 \end{pmatrix},$$

Example 0.328.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/8 \\ 1 & 1 & 1/6 & 1/6 \\ 4 & 6 & 1 & 1/3 \\ 8 & 6 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.068186 \\ 0.068349 \\ 0.282457 \\ 0.581008 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9976 & 0.2414 & 0.1174 \\ 1.0024 & 1 & 0.2420 & 0.1176 \\ 4.1425 & 4.1326 & 1 & 0.4862 \\ 8.5210 & 8.5006 & 2.0570 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.068338 \\ 0.068338 \\ 0.282411 \\ 0.580913 \end{pmatrix} = 0.999834 \cdot \begin{pmatrix} 0.068349 \\ 0.068349 \\ 0.282457 \\ 0.581008 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.2420 & 0.1176 \\ 1 & 1 & 0.2420 & 0.1176 \\ 4.1326 & 4.1326 & 1 & 0.4862 \\ 8.5006 & 8.5006 & 2.0570 & 1 \end{pmatrix},$$

Example 0.329.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/8 \\ 1 & 1 & 1/7 & 1/5 \\ 4 & 7 & 1 & 2 \\ 8 & 5 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1665, \quad CR = 0.0628$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.074639 \\ 0.068952 \\ 0.482733 \\ 0.373676 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0825 & 0.1546 & 0.1997 \\ 0.9238 & 1 & 0.1428 & 0.1845 \\ 6.4676 & 7.0010 & 1 & 1.2919 \\ 5.0064 & 5.4194 & 0.7741 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.074638 \\ 0.068961 \\ 0.482729 \\ 0.373672 \end{pmatrix} = 0.999989 \cdot \begin{pmatrix} 0.074639 \\ 0.068962 \\ 0.482733 \\ 0.373676 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0823 & 0.1546 & 0.1997 \\ 0.9239 & 1 & 1/7 & 0.1846 \\ 6.4676 & 7 & 1 & 1.2919 \\ 5.0064 & 5.4186 & 0.7741 & 1 \end{pmatrix},$$

Example 0.330.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/8 \\ 1 & 1 & 1/7 & 1/5 \\ 4 & 7 & 1 & 1/3 \\ 8 & 5 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1782, \quad CR = 0.0672$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.067748 \\ 0.070191 \\ 0.298928 \\ 0.563133 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9652 & 0.2266 & 0.1203 \\ 1.0361 & 1 & 0.2348 & 0.1246 \\ 4.4123 & 4.2588 & 1 & 0.5308 \\ 8.3121 & 8.0228 & 1.8838 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.070020 \\ 0.070020 \\ 0.298200 \\ 0.561760 \end{pmatrix} = 0.997562 \cdot \begin{pmatrix} 0.070191 \\ 0.070191 \\ 0.298928 \\ 0.563133 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.2348 & 0.1246 \\ 1 & 1 & 0.2348 & 0.1246 \\ 4.2588 & 4.2588 & 1 & 0.5308 \\ 8.0228 & 8.0228 & 1.8838 & 1 \end{pmatrix},$$

Example 0.331.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/8 \\ 1 & 1 & 1/7 & 1/5 \\ 4 & 7 & 1 & 1/4 \\ 8 & 5 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2610, \quad CR = 0.0984$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.064567 \\ 0.068231 \\ 0.271346 \\ 0.595857 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9463 & 0.2379 & 0.1084 \\ 1.0568 & 1 & 0.2515 & 0.1145 \\ 4.2026 & 3.9768 & 1 & 0.4554 \\ 9.2286 & 8.7329 & 2.1959 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.067615 \\ 0.068009 \\ 0.270461 \\ 0.593914 \end{pmatrix} = 0.996744 \cdot \begin{pmatrix} 0.067836 \\ 0.068231 \\ 0.271346 \\ 0.595857 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9942 & 1/4 & 0.1138 \\ 1.0058 & 1 & 0.2515 & 0.1145 \\ 4 & 3.9768 & 1 & 0.4554 \\ 8.7837 & 8.7328 & 2.1959 & 1 \end{pmatrix},$$

Example 0.332.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/8 \\ 1 & 1 & 1/8 & 1/5 \\ 4 & 8 & 1 & 1/3 \\ 8 & 5 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2162, \quad CR = 0.0815$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.066585 \\ 0.067371 \\ 0.308203 \\ 0.557842 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9883 & 0.2160 & 0.1194 \\ 1.0118 & 1 & 0.2186 & 0.1208 \\ 4.6287 & 4.5747 & 1 & 0.5525 \\ 8.3779 & 8.2802 & 1.8100 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.067318 \\ 0.067318 \\ 0.307961 \\ 0.557403 \end{pmatrix} = 0.999215 \cdot \begin{pmatrix} 0.067371 \\ 0.067371 \\ 0.308203 \\ 0.557842 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.2186 & 0.1208 \\ 1 & 1 & 0.2186 & 0.1208 \\ 4.5747 & 4.5747 & 1 & 0.5525 \\ 8.2802 & 8.2802 & 1.8100 & 1 \end{pmatrix},$$

Example 0.333.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/9 \\ 1 & 1 & 1/6 & 1/5 \\ 4 & 6 & 1 & 2 \\ 9 & 5 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1966, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.072402 \\ 0.071347 \\ 0.467653 \\ 0.388598 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0148 & 0.1548 & 0.1863 \\ 0.9854 & 1 & 0.1526 & 0.1836 \\ 6.4591 & 6.5547 & 1 & 1.2034 \\ 5.3672 & 5.4466 & 0.8310 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.072326 \\ 0.072326 \\ 0.467160 \\ 0.388188 \end{pmatrix} = 0.998947 \cdot \begin{pmatrix} 0.072402 \\ 0.072402 \\ 0.467653 \\ 0.388598 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.1548 & 0.1863 \\ 1 & 1 & 0.1548 & 0.1863 \\ 6.4591 & 6.4591 & 1 & 1.2034 \\ 5.3672 & 5.3672 & 0.8310 & 1 \end{pmatrix},$$

Example 0.334.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/9 \\ 1 & 1 & 1/6 & 1/5 \\ 4 & 6 & 1 & 1/4 \\ 9 & 5 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2146, \quad CR = 0.0809$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.063120 \\ 0.070841 \\ 0.258046 \\ 0.607993 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.8910 & 0.2446 & 0.1038 \\ 1.1223 & 1 & 0.2745 & 0.1165 \\ 4.0882 & 3.6426 & 1 & 0.4244 \\ 9.6323 & 8.5825 & 2.3561 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.064422 \\ 0.070742 \\ 0.257688 \\ 0.607148 \end{pmatrix} = 0.998609 \cdot \begin{pmatrix} 0.064512 \\ 0.070841 \\ 0.258046 \\ 0.607993 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9107 & 1/4 & 0.1061 \\ 1.0981 & 1 & 0.2745 & 0.1165 \\ 4 & 3.6426 & 1 & 0.4244 \\ 9.4245 & 8.5825 & 2.3561 & 1 \end{pmatrix},$$

Example 0.335.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/9 \\ 1 & 1 & 1/6 & 1/6 \\ 4 & 6 & 1 & 1/3 \\ 9 & 6 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.065284 \\ 0.067609 \\ 0.278142 \\ 0.588965 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9656 & 0.2347 & 0.1108 \\ 1.0356 & 1 & 0.2431 & 0.1148 \\ 4.2605 & 4.1140 & 1 & 0.4723 \\ 9.0216 & 8.7113 & 2.1175 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.065430 \\ 0.067599 \\ 0.278099 \\ 0.588872 \end{pmatrix} = 0.999844 \cdot \begin{pmatrix} 0.065440 \\ 0.067609 \\ 0.278142 \\ 0.588965 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9679 & 0.2353 & 1/9 \\ 1.0331 & 1 & 0.2431 & 0.1148 \\ 4.2503 & 4.1140 & 1 & 0.4723 \\ 9 & 8.7113 & 2.1175 & 1 \end{pmatrix},$$

Example 0.336.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/9 \\ 1 & 1 & 1/6 & 1/6 \\ 4 & 6 & 1 & 1/4 \\ 9 & 6 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.062372 \\ 0.065598 \\ 0.252045 \\ 0.619984 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9508 & 0.2475 & 0.1006 \\ 1.0517 & 1 & 0.2603 & 0.1058 \\ 4.0410 & 3.8422 & 1 & 0.4065 \\ 9.9400 & 9.4512 & 2.4598 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.062971 \\ 0.065556 \\ 0.251884 \\ 0.619589 \end{pmatrix} = 0.999359 \cdot \begin{pmatrix} 0.063011 \\ 0.065598 \\ 0.252045 \\ 0.619984 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9606 & 1/4 & 0.1016 \\ 1.0411 & 1 & 0.2603 & 0.1058 \\ 4 & 3.8422 & 1 & 0.4065 \\ 9.8393 & 9.4512 & 2.4598 & 1 \end{pmatrix},$$

Example 0.337.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/9 \\ 1 & 1 & 1/7 & 1/5 \\ 4 & 7 & 1 & 2 \\ 9 & 5 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1975, \quad CR = 0.0745$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.071832 \\ 0.067748 \\ 0.477613 \\ 0.382807 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0603 & 0.1504 & 0.1876 \\ 0.9431 & 1 & 0.1418 & 0.1770 \\ 6.6490 & 7.0499 & 1 & 1.2477 \\ 5.3292 & 5.6505 & 0.8015 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.071798 \\ 0.068197 \\ 0.477382 \\ 0.382623 \end{pmatrix} = 0.999517 \cdot \begin{pmatrix} 0.071832 \\ 0.068230 \\ 0.477613 \\ 0.382807 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0528 & 0.1504 & 0.1876 \\ 0.9499 & 1 & 1/7 & 0.1782 \\ 6.6490 & 7 & 1 & 1.2477 \\ 5.3292 & 5.6105 & 0.8015 & 1 \end{pmatrix},$$

Example 0.338.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/9 \\ 1 & 1 & 1/7 & 1/5 \\ 4 & 7 & 1 & 1/4 \\ 9 & 5 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2594, \quad CR = 0.0978$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.061843 \\ 0.067696 \\ 0.267529 \\ 0.602932 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9135 & 0.2312 & 0.1026 \\ 1.0946 & 1 & 0.2530 & 0.1123 \\ 4.3259 & 3.9519 & 1 & 0.4437 \\ 9.7494 & 8.9065 & 2.2537 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.066547 \\ 0.067357 \\ 0.266188 \\ 0.599909 \end{pmatrix} = 0.994988 \cdot \begin{pmatrix} 0.066882 \\ 0.067696 \\ 0.267529 \\ 0.602932 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9880 & 1/4 & 0.1109 \\ 1.0122 & 1 & 0.2530 & 0.1123 \\ 4 & 3.9519 & 1 & 0.4437 \\ 9.0148 & 8.9064 & 2.2537 & 1 \end{pmatrix},$$

Example 0.339.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/9 \\ 1 & 1 & 1/7 & 1/6 \\ 4 & 7 & 1 & 2 \\ 9 & 6 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1964, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.070589 \\ 0.063698 \\ 0.473342 \\ 0.392370 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1082 & 0.1491 & 0.1799 \\ 0.9024 & 1 & 0.1346 & 0.1623 \\ 6.7056 & 7.4310 & 1 & 1.2064 \\ 5.5585 & 6.1598 & 0.8289 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.070470 \\ 0.065284 \\ 0.472541 \\ 0.391705 \end{pmatrix} = 0.998306 \cdot \begin{pmatrix} 0.070589 \\ 0.065395 \\ 0.473342 \\ 0.392370 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0794 & 0.1491 & 0.1799 \\ 0.9264 & 1 & 0.1382 & 1/6 \\ 6.7056 & 7.2382 & 1 & 1.2064 \\ 5.5585 & 6 & 0.8289 & 1 \end{pmatrix},$$

Example 0.340.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/9 \\ 1 & 1 & 1/7 & 1/6 \\ 4 & 7 & 1 & 1/3 \\ 9 & 6 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1365, \quad CR = 0.0515$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.064205 \\ 0.064579 \\ 0.287990 \\ 0.583226 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9942 & 0.2229 & 0.1101 \\ 1.0058 & 1 & 0.2242 & 0.1107 \\ 4.4855 & 4.4595 & 1 & 0.4938 \\ 9.0838 & 9.0312 & 2.0252 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.064555 \\ 0.064555 \\ 0.287882 \\ 0.583008 \end{pmatrix} = 0.999627 \cdot \begin{pmatrix} 0.064579 \\ 0.064579 \\ 0.287990 \\ 0.583226 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.2242 & 0.1107 \\ 1 & 1 & 0.2242 & 0.1107 \\ 4.4595 & 4.4595 & 1 & 0.4938 \\ 9.0312 & 9.0312 & 2.0252 & 1 \end{pmatrix},$$

Example 0.341.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/9 \\ 1 & 1 & 1/7 & 1/6 \\ 4 & 7 & 1 & 1/4 \\ 9 & 6 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2066, \quad CR = 0.0779$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.061221 \\ 0.062690 \\ 0.261166 \\ 0.614923 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9766 & 0.2344 & 0.0996 \\ 1.0240 & 1 & 0.2400 & 0.1019 \\ 4.2660 & 4.1660 & 1 & 0.4247 \\ 10.0444 & 9.8090 & 2.3545 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.062598 \\ 0.062598 \\ 0.260783 \\ 0.614022 \end{pmatrix} = 0.998529 \cdot \begin{pmatrix} 0.062690 \\ 0.062690 \\ 0.261166 \\ 0.614923 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.2400 & 0.1019 \\ 1 & 1 & 0.2400 & 0.1019 \\ 4.1660 & 4.1660 & 1 & 0.4247 \\ 9.8090 & 9.8090 & 2.3545 & 1 \end{pmatrix},$$

Example 0.342.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/4 & 1/9 \\ 1 & 1 & 1/8 & 1/6 \\ 4 & 8 & 1 & 1/4 \\ 9 & 6 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.060177 \\ 0.060226 \\ 0.269499 \\ 0.610098 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9992 & 0.2233 & 0.0986 \\ 1.0008 & 1 & 0.2235 & 0.0987 \\ 4.4784 & 4.4748 & 1 & 0.4417 \\ 10.1384 & 10.1302 & 2.2638 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.060223 \\ 0.060223 \\ 0.269485 \\ 0.610069 \end{pmatrix} = 0.999950 \cdot \begin{pmatrix} 0.060226 \\ 0.060226 \\ 0.269499 \\ 0.610098 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.2235 & 0.0987 \\ 1 & 1 & 0.2235 & 0.0987 \\ 4.4748 & 4.4748 & 1 & 0.4417 \\ 10.1302 & 10.1302 & 2.2638 & 1 \end{pmatrix},$$

Example 0.343.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/7 \\ 1 & 1 & 1/7 & 1/5 \\ 5 & 7 & 1 & 2 \\ 7 & 5 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0899, \quad CR = 0.0339$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.071498 \\ 0.069437 \\ 0.503288 \\ 0.355778 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0297 & 0.1421 & 0.2010 \\ 0.9712 & 1 & 0.1380 & 0.1952 \\ 7.0392 & 7.2481 & 1 & 1.4146 \\ 4.9761 & 5.1238 & 0.7069 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.071375 \\ 0.071033 \\ 0.502424 \\ 0.355167 \end{pmatrix} = 0.998285 \cdot \begin{pmatrix} 0.071498 \\ 0.071155 \\ 0.503288 \\ 0.355778 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0048 & 0.1421 & 0.2010 \\ 0.9952 & 1 & 0.1414 & 1/5 \\ 7.0392 & 7.0731 & 1 & 1.4146 \\ 4.9761 & 5 & 0.7069 & 1 \end{pmatrix},$$

Example 0.344.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/7 \\ 1 & 1 & 1/8 & 1/5 \\ 5 & 8 & 1 & 1/2 \\ 7 & 5 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1159, \quad CR = 0.0437$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.068268 \\ 0.068522 \\ 0.365367 \\ 0.497843 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9963 & 0.1868 & 0.1371 \\ 1.0037 & 1 & 0.1875 & 0.1376 \\ 5.3519 & 5.3321 & 1 & 0.7339 \\ 7.2925 & 7.2654 & 1.3626 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.068505 \\ 0.068505 \\ 0.365274 \\ 0.497716 \end{pmatrix} = 0.999748 \cdot \begin{pmatrix} 0.068522 \\ 0.068522 \\ 0.365367 \\ 0.497843 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.1875 & 0.1376 \\ 1 & 1 & 0.1875 & 0.1376 \\ 5.3321 & 5.3321 & 1 & 0.7339 \\ 7.2654 & 7.2654 & 1.3626 & 1 \end{pmatrix},$$

Example 0.345.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/7 \\ 1 & 1 & 1/9 & 1/5 \\ 5 & 9 & 1 & 3 \\ 7 & 5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1795, \quad CR = 0.0677$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.068337 \\ 0.060462 \\ 0.566299 \\ 0.304902 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1303 & 0.1207 & 0.2241 \\ 0.8848 & 1 & 0.1068 & 0.1983 \\ 8.2868 & 9.3662 & 1 & 1.8573 \\ 4.4617 & 5.0429 & 0.5384 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.068302 \\ 0.060949 \\ 0.566005 \\ 0.304744 \end{pmatrix} = 0.999483 \cdot \begin{pmatrix} 0.068337 \\ 0.060980 \\ 0.566299 \\ 0.304902 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1206 & 0.1207 & 0.2241 \\ 0.8923 & 1 & 0.1077 & 1/5 \\ 8.2868 & 9.2866 & 1 & 1.8573 \\ 4.4617 & 5 & 0.5384 & 1 \end{pmatrix},$$

Example 0.346.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/7 \\ 1 & 1 & 1/9 & 1/5 \\ 5 & 9 & 1 & 1/3 \\ 7 & 5 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2539, \quad CR = 0.0957$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.063817 \\ 0.064169 \\ 0.330974 \\ 0.541040 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9945 & 0.1928 & 0.1180 \\ 1.0055 & 1 & 0.1939 & 0.1186 \\ 5.1863 & 5.1579 & 1 & 0.6117 \\ 8.4779 & 8.4315 & 1.6347 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.064147 \\ 0.064147 \\ 0.330857 \\ 0.540849 \end{pmatrix} = 0.999652 \cdot \begin{pmatrix} 0.064169 \\ 0.064169 \\ 0.330974 \\ 0.541040 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.1939 & 0.1186 \\ 1 & 1 & 0.1939 & 0.1186 \\ 5.1578 & 5.1578 & 1 & 0.6117 \\ 8.4315 & 8.4315 & 1.6347 & 1 \end{pmatrix},$$

Example 0.347.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/8 \\ 1 & 1 & 1/7 & 1/6 \\ 5 & 7 & 1 & 1/2 \\ 8 & 6 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0609, \quad CR = 0.0230$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.065451 \\ 0.066002 \\ 0.343602 \\ 0.524945 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9917 & 0.1905 & 0.1247 \\ 1.0084 & 1 & 0.1921 & 0.1257 \\ 5.2498 & 5.2059 & 1 & 0.6545 \\ 8.0205 & 7.9535 & 1.5278 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.065607 \\ 0.065991 \\ 0.343544 \\ 0.524858 \end{pmatrix} = 0.999834 \cdot \begin{pmatrix} 0.065618 \\ 0.066002 \\ 0.343602 \\ 0.524945 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 0.9942 & 0.1910 & 1/8 \\ 1.0058 & 1 & 0.1921 & 0.1257 \\ 5.2364 & 5.2059 & 1 & 0.6545 \\ 8 & 7.9535 & 1.5278 & 1 \end{pmatrix},$$

Example 0.348.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/8 \\ 1 & 1 & 1/8 & 1/5 \\ 5 & 8 & 1 & 3 \\ 8 & 5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2144, \quad CR = 0.0808$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.066089 \\ 0.061896 \\ 0.553821 \\ 0.318194 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0677 & 0.1193 & 0.2077 \\ 0.9366 & 1 & 0.1118 & 0.1945 \\ 8.3800 & 8.9477 & 1 & 1.7405 \\ 4.8147 & 5.1408 & 0.5745 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.065974 \\ 0.063528 \\ 0.552858 \\ 0.317640 \end{pmatrix} = 0.998260 \cdot \begin{pmatrix} 0.066089 \\ 0.063639 \\ 0.553821 \\ 0.318194 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0385 & 0.1193 & 0.2077 \\ 0.9629 & 1 & 0.1149 & 1/5 \\ 8.3800 & 8.7026 & 1 & 1.7405 \\ 4.8146 & 5 & 0.5745 & 1 \end{pmatrix},$$

Example 0.349.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/8 \\ 1 & 1 & 1/8 & 1/6 \\ 5 & 8 & 1 & 2 \\ 8 & 6 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1163, \quad CR = 0.0439$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.066737 \\ \mathbf{0.061336} \\ 0.501969 \\ 0.369957 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{1.0881} & 0.1330 & 0.1804 \\ \mathbf{0.9191} & 1 & \mathbf{0.1222} & \mathbf{0.1658} \\ 7.5216 & \mathbf{8.1839} & 1 & 1.3568 \\ 5.5435 & \mathbf{6.0316} & 0.7370 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.066716 \\ 0.061640 \\ 0.501807 \\ 0.369838 \end{pmatrix} = 0.999676 \cdot \begin{pmatrix} 0.066737 \\ \mathbf{0.061660} \\ 0.501969 \\ 0.369957 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{1.0824} & 0.1330 & 0.1804 \\ \mathbf{0.9239} & 1 & \mathbf{0.1228} & \mathbf{1/6} \\ 7.5216 & \mathbf{8.1410} & 1 & 1.3568 \\ 5.5435 & \mathbf{6} & 0.7370 & 1 \end{pmatrix},$$

Example 0.350.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/8 \\ 1 & 1 & 1/8 & 1/6 \\ 5 & 8 & 1 & 1/3 \\ 8 & 6 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1689, \quad CR = 0.0637$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.061350 \\ 0.061405 \\ 0.311347 \\ 0.565899 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9991 & 0.1970 & 0.1084 \\ 1.0009 & 1 & 0.1972 & 0.1085 \\ 5.0749 & 5.0704 & 1 & 0.5502 \\ 9.2241 & 9.2159 & 1.8176 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.061401 \\ 0.061401 \\ 0.311329 \\ 0.565868 \end{pmatrix} = 0.999947 \cdot \begin{pmatrix} 0.061405 \\ 0.061405 \\ 0.311347 \\ 0.565899 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.1972 & 0.1085 \\ 1 & 1 & 0.1972 & 0.1085 \\ 5.0704 & 5.0704 & 1 & 0.5502 \\ 9.2159 & 9.2159 & 1.8176 & 1 \end{pmatrix},$$

Example 0.351.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/8 \\ 1 & 1 & 1/9 & 1/5 \\ 5 & 9 & 1 & 3 \\ 8 & 5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2138, \quad CR = 0.0806$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.065599 \\ 0.059346 \\ 0.561218 \\ 0.313837 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1054 & 0.1169 & 0.2090 \\ 0.9047 & 1 & 0.1057 & 0.1891 \\ 8.5553 & 9.4567 & 1 & 1.7882 \\ 4.7842 & 5.2882 & 0.5592 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.065402 \\ 0.062170 \\ 0.559533 \\ 0.312894 \end{pmatrix} = 0.996998 \cdot \begin{pmatrix} 0.065599 \\ 0.062358 \\ 0.561218 \\ 0.313837 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0520 & 0.1169 & 0.2090 \\ 0.9506 & 1 & 1/9 & 0.1987 \\ 8.5553 & 9 & 1 & 1.7883 \\ 4.7842 & 5.0328 & 0.5592 & 1 \end{pmatrix},$$

Example 0.352.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/8 \\ 1 & 1 & 1/9 & 1/5 \\ 5 & 9 & 1 & 1/3 \\ 8 & 5 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2489, \quad CR = 0.0939$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.060820 \\ 0.063686 \\ 0.326362 \\ 0.549132 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9550 & 0.1864 & 0.1108 \\ 1.0471 & 1 & 0.1951 & 0.1160 \\ 5.3660 & 5.1246 & 1 & 0.5943 \\ 9.0288 & 8.6225 & 1.6826 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.063504 \\ 0.063504 \\ 0.325429 \\ 0.547563 \end{pmatrix} = 0.997146 \cdot \begin{pmatrix} 0.063686 \\ 0.063686 \\ 0.326362 \\ 0.549132 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.1951 & 0.1160 \\ 1 & 1 & 0.1951 & 0.1160 \\ 5.1246 & 5.1246 & 1 & 0.5943 \\ 8.6225 & 8.6225 & 1.6826 & 1 \end{pmatrix},$$

Example 0.353.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/9 \\ 1 & 1 & 1/7 & 1/6 \\ 5 & 7 & 1 & 2 \\ 9 & 6 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1417, \quad CR = 0.0534$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.064762 \\ \mathbf{0.063176} \\ 0.488194 \\ 0.383868 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{1.0251} & 0.1327 & 0.1687 \\ \mathbf{0.9755} & 1 & \mathbf{0.1294} & \mathbf{0.1646} \\ 7.5382 & \mathbf{7.7275} & 1 & 1.2718 \\ 5.9273 & \mathbf{6.0762} & 0.7863 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.064710 \\ 0.063927 \\ 0.487803 \\ 0.383560 \end{pmatrix} = 0.999199 \cdot \begin{pmatrix} 0.064762 \\ \mathbf{0.063978} \\ 0.488194 \\ 0.383868 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{1.0123} & 0.1327 & 0.1687 \\ \mathbf{0.9879} & 1 & \mathbf{0.1311} & \mathbf{1/6} \\ 7.5382 & \mathbf{7.6307} & 1 & 1.2718 \\ 5.9273 & \mathbf{6} & 0.7863 & 1 \end{pmatrix},$$

Example 0.354.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/9 \\ 1 & 1 & 1/8 & 1/6 \\ 5 & 8 & 1 & 2 \\ 9 & 6 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1406, \quad CR = 0.0530$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.064245 \\ \mathbf{0.060322} \\ 0.496961 \\ 0.378472 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{1.0650} & 0.1293 & 0.1697 \\ \mathbf{0.9389} & 1 & \mathbf{0.1214} & \mathbf{0.1594} \\ 7.7354 & \mathbf{8.2385} & 1 & 1.3131 \\ 5.8911 & \mathbf{6.2742} & 0.7616 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.064130 \\ 0.062009 \\ 0.496069 \\ 0.377792 \end{pmatrix} = 0.998205 \cdot \begin{pmatrix} 0.064245 \\ \mathbf{0.062120} \\ 0.496961 \\ 0.378472 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{1.0342} & 0.1293 & 0.1697 \\ \mathbf{0.9669} & 1 & \mathbf{1/8} & \mathbf{0.1641} \\ 7.7354 & \mathbf{8} & 1 & 1.3131 \\ 5.8911 & \mathbf{6.0926} & 0.7616 & 1 \end{pmatrix},$$

Example 0.355.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/9 \\ 1 & 1 & 1/8 & 1/6 \\ 5 & 8 & 1 & 1/3 \\ 9 & 6 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.058752 \\ 0.060871 \\ 0.307009 \\ 0.573368 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9652 & 0.1914 & 0.1025 \\ 1.0361 & 1 & 0.1983 & 0.1062 \\ 5.2255 & 5.0436 & 1 & 0.5354 \\ 9.7592 & 9.4194 & 1.8676 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.060742 \\ 0.060742 \\ 0.306360 \\ 0.572156 \end{pmatrix} = 0.997887 \cdot \begin{pmatrix} 0.060871 \\ 0.060871 \\ 0.307009 \\ 0.573368 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.1983 & 0.1062 \\ 1 & 1 & 0.1983 & 0.1062 \\ 5.0436 & 5.0436 & 1 & 0.5354 \\ 9.4194 & 9.4194 & 1.8676 & 1 \end{pmatrix},$$

Example 0.356.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/9 \\ 1 & 1 & 1/9 & 1/5 \\ 5 & 9 & 1 & 3 \\ 9 & 5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2483, \quad CR = 0.0936$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.063229 \\ 0.058327 \\ 0.556379 \\ 0.322064 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.0841 & 0.1136 & 0.1963 \\ 0.9225 & 1 & 0.1048 & 0.1811 \\ 8.7994 & 9.5390 & 1 & 1.7275 \\ 5.0936 & 5.5217 & 0.5789 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.063009 \\ 0.061605 \\ 0.554443 \\ 0.320943 \end{pmatrix} = 0.996518 \cdot \begin{pmatrix} 0.063229 \\ 0.061820 \\ 0.556379 \\ 0.322064 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.0228 & 0.1136 & 0.1963 \\ 0.9777 & 1 & 1/9 & 0.1919 \\ 8.7994 & 9 & 1 & 1.7275 \\ 5.0936 & 5.2097 & 0.5789 & 1 \end{pmatrix},$$

Example 0.357.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/9 \\ 1 & 1 & 1/9 & 1/6 \\ 5 & 9 & 1 & 3 \\ 9 & 6 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2508, \quad CR = 0.0946$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.062191 \\ 0.054952 \\ 0.552588 \\ 0.330269 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1317 & 0.1125 & 0.1883 \\ 0.8836 & 1 & 0.0994 & 0.1664 \\ 8.8854 & 10.0559 & 1 & 1.6731 \\ 5.3106 & 6.0102 & 0.5977 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.062185 \\ 0.055040 \\ 0.552537 \\ 0.330238 \end{pmatrix} = 0.999907 \cdot \begin{pmatrix} 0.062191 \\ 0.055045 \\ 0.552588 \\ 0.330269 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1298 & 0.1125 & 0.1883 \\ 0.8851 & 1 & 0.0996 & 1/6 \\ 8.8854 & 10.0389 & 1 & 1.6731 \\ 5.3106 & 6 & 0.5977 & 1 \end{pmatrix},$$

Example 0.358.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/5 & 1/9 \\ 1 & 1 & 1/9 & 1/6 \\ 5 & 9 & 1 & 1/3 \\ 9 & 6 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1966, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.057825 \\ 0.058681 \\ 0.314953 \\ 0.568541 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9854 & 0.1836 & 0.1017 \\ 1.0148 & 1 & 0.1863 & 0.1032 \\ 5.4466 & 5.3672 & 1 & 0.5540 \\ 9.8320 & 9.6887 & 1.8052 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.058631 \\ 0.058631 \\ 0.314684 \\ 0.568054 \end{pmatrix} = 0.999149 \cdot \begin{pmatrix} 0.058681 \\ 0.058681 \\ 0.314953 \\ 0.568541 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.1863 & 0.1032 \\ 1 & 1 & 0.1863 & 0.1032 \\ 5.3672 & 5.3672 & 1 & 0.5540 \\ 9.6887 & 9.6887 & 1.8052 & 1 \end{pmatrix},$$

Example 0.359.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/6 & 1/8 \\ 1 & 1 & 1/9 & 1/6 \\ 6 & 9 & 1 & 1/2 \\ 8 & 6 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.059747 \\ 0.059891 \\ 0.371254 \\ 0.509108 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9976 & 0.1609 & 0.1174 \\ 1.0024 & 1 & 0.1613 & 0.1176 \\ 6.2137 & 6.1988 & 1 & 0.7292 \\ 8.5210 & 8.5006 & 1.3713 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.059882 \\ 0.059882 \\ 0.371201 \\ 0.509035 \end{pmatrix} = 0.999853 \cdot \begin{pmatrix} 0.059891 \\ 0.059891 \\ 0.371254 \\ 0.509108 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.1613 & 0.1176 \\ 1 & 1 & 0.1613 & 0.1176 \\ 6.1989 & 6.1989 & 1 & 0.7292 \\ 8.5006 & 8.5006 & 1.3713 & 1 \end{pmatrix},$$

Example 0.360.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/6 & 1/9 \\ 1 & 1 & 1/8 & 1/7 \\ 6 & 8 & 1 & 1/2 \\ 9 & 7 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0576, \quad CR = 0.0217$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.057527 \\ 0.058079 \\ 0.351916 \\ 0.532478 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 0.9905 & 0.1635 & 0.1080 \\ 1.0096 & 1 & 0.1650 & 0.1091 \\ 6.1174 & 6.0593 & 1 & 0.6609 \\ 9.2562 & 9.1682 & 1.5131 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.058047 \\ 0.058047 \\ 0.351722 \\ 0.532184 \end{pmatrix} = 0.999448 \cdot \begin{pmatrix} 0.058079 \\ 0.058079 \\ 0.351916 \\ 0.532478 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1 & 0.1650 & 0.1091 \\ 1 & 1 & 0.1650 & 0.1091 \\ 6.0593 & 6.0593 & 1 & 0.6609 \\ 9.1682 & 9.1682 & 1.5131 & 1 \end{pmatrix},$$

Example 0.361.

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 1/6 & 1/9 \\ 1 & 1 & 1/9 & 1/6 \\ 6 & 9 & 1 & 2 \\ 9 & 6 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.059355 \\ \mathbf{0.057313} \\ 0.517057 \\ 0.366275 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{1.0356} & 0.1148 & 0.1621 \\ \mathbf{0.9656} & 1 & \mathbf{0.1108} & \mathbf{0.1565} \\ 8.7113 & \mathbf{9.0216} & 1 & 1.4117 \\ 6.1709 & \mathbf{6.3907} & 0.7084 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.059347 \\ 0.057443 \\ 0.516986 \\ 0.366225 \end{pmatrix} = 0.999863 \cdot \begin{pmatrix} 0.059355 \\ \mathbf{0.057451} \\ 0.517057 \\ 0.366275 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{1.0331} & 0.1148 & 0.1621 \\ \mathbf{0.9679} & 1 & \mathbf{1/9} & \mathbf{0.1569} \\ 8.7113 & \mathbf{9} & 1 & 1.4117 \\ 6.1709 & \mathbf{6.3755} & 0.7084 & 1 \end{pmatrix},$$

Example 0.362.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 6 \\ 1/2 & 1 & 2 & 2 \\ 1/2 & 1/2 & 1 & 5 \\ 1/6 & 1/2 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.441083 \\ 0.256015 \\ 0.226437 \\ 0.076465 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7229 & 1.9479 & 5.7684 \\ 0.5804 & 1 & 1.1306 & 3.3481 \\ 0.5134 & 0.8845 & 1 & 2.9613 \\ 0.1734 & 0.2987 & 0.3377 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.447596 \\ 0.253032 \\ 0.223798 \\ 0.075574 \end{pmatrix} = 0.988349 \cdot \begin{pmatrix} 0.452872 \\ 0.256015 \\ 0.226437 \\ 0.076465 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7689 & 2 & 5.9226 \\ 0.5653 & 1 & 1.1306 & 3.3481 \\ 1/2 & 0.8845 & 1 & 2.9613 \\ 0.1688 & 0.2987 & 0.3377 & 1 \end{pmatrix},$$

Example 0.363.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 6 \\ 1/2 & 1 & 3 & 4 \\ 1/2 & 1/3 & 1 & 2 \\ 1/6 & 1/4 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.450646 \\ 0.319231 \\ 0.155194 \\ 0.074928 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.4117 & 2.9038 & 6.0144 \\ 0.7084 & 1 & 2.0570 & 4.2605 \\ 0.3444 & 0.4862 & 1 & 2.0712 \\ 0.1663 & 0.2347 & 0.4828 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.450566 \\ 0.319174 \\ 0.155166 \\ 0.075094 \end{pmatrix} = 0.999821 \cdot \begin{pmatrix} 0.450646 \\ 0.319231 \\ 0.155194 \\ 0.075108 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.4117 & 2.9038 & 6 \\ 0.7084 & 1 & 2.0570 & 4.2503 \\ 0.3444 & 0.4861 & 1 & 2.0663 \\ 1/6 & 0.2353 & 0.4840 & 1 \end{pmatrix},$$

Example 0.364.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 6 \\ 1/2 & 1 & 4 & 5 \\ 1/2 & 1/4 & 1 & 2 \\ 1/6 & 1/5 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.439490 \\ 0.352986 \\ 0.139974 \\ \mathbf{0.067550} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.2451 & 3.1398 & \mathbf{6.5061} \\ 0.8032 & 1 & 2.5218 & \mathbf{5.2256} \\ 0.3185 & 0.3965 & 1 & \mathbf{2.0721} \\ \mathbf{0.1537} & \mathbf{0.1914} & \mathbf{0.4826} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.438422 \\ 0.352128 \\ 0.139633 \\ 0.069817 \end{pmatrix} = 0.997570 \cdot \begin{pmatrix} 0.439490 \\ 0.352986 \\ 0.139974 \\ \mathbf{0.069987} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.2451 & 3.1398 & \mathbf{6.2796} \\ 0.8032 & 1 & 2.5218 & \mathbf{5.0436} \\ 0.3185 & 0.3965 & 1 & \mathbf{2} \\ \mathbf{0.1592} & \mathbf{0.1983} & \mathbf{1/2} & 1 \end{pmatrix},$$

Example 0.365.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 6 \\ 1/2 & 1 & 5 & 6 \\ 1/2 & 1/5 & 1 & 2 \\ 1/6 & 1/6 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.429790 \\ 0.380136 \\ 0.128368 \\ 0.061706 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1306 & 3.3481 & 6.9651 \\ 0.8845 & 1 & 2.9613 & 6.1604 \\ 0.2987 & 0.3377 & 1 & 2.0803 \\ 0.1436 & 0.1623 & 0.4807 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.429083 \\ 0.379509 \\ 0.128156 \\ 0.063252 \end{pmatrix} = 0.998354 \cdot \begin{pmatrix} 0.429790 \\ 0.380136 \\ 0.128368 \\ 0.063356 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1306 & 3.3481 & 6.7837 \\ 0.8845 & 1 & 2.9613 & 6 \\ 0.2987 & 0.3377 & 1 & 2.0261 \\ 0.1474 & 1/6 & 0.4936 & 1 \end{pmatrix},$$

Example 0.366.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 7 \\ 1/2 & 1 & 4 & 5 \\ 1/2 & 1/4 & 1 & 2 \\ 1/7 & 1/5 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1665, \quad CR = 0.0628$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.449205 \\ 0.347722 \\ 0.138910 \\ 0.064163 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.2919 & 3.2338 & 7.0010 \\ 0.7741 & 1 & 2.5032 & 5.4193 \\ 0.3092 & 0.3995 & 1 & 2.1650 \\ 0.1428 & 0.1845 & 0.4619 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.449201 \\ 0.347719 \\ 0.138909 \\ 0.064171 \end{pmatrix} = 0.999991 \cdot \begin{pmatrix} 0.449205 \\ 0.347722 \\ 0.138910 \\ 0.064172 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.2919 & 3.2338 & 7 \\ 0.7741 & 1 & 2.5032 & 5.4186 \\ 0.3092 & 0.3995 & 1 & 2.1647 \\ 1/7 & 0.1845 & 0.4620 & 1 \end{pmatrix},$$

Example 0.367.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 7 \\ 1/2 & 1 & 5 & 5 \\ 1/2 & 1/5 & 1 & 2 \\ 1/7 & 1/5 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2287, \quad CR = 0.0862$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.442095 \\ 0.365864 \\ 0.129727 \\ 0.062314 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.2084 & 3.4079 & 7.0946 \\ 0.8276 & 1 & 2.8202 & 5.8713 \\ 0.2934 & 0.3546 & 1 & 2.0818 \\ 0.1410 & 0.1703 & 0.4803 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.441723 \\ 0.365556 \\ 0.129618 \\ 0.063103 \end{pmatrix} = 0.999159 \cdot \begin{pmatrix} 0.442095 \\ 0.365864 \\ 0.129727 \\ 0.063156 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.2084 & 3.4079 & 7 \\ 0.8276 & 1 & 2.8203 & 5.7930 \\ 0.2934 & 0.3546 & 1 & 2.0541 \\ 1/7 & 0.1726 & 0.4868 & 1 \end{pmatrix},$$

Example 0.368.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 7 \\ 1/2 & 1 & 5 & 6 \\ 1/2 & 1/5 & 1 & 2 \\ 1/7 & 1/6 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2251, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.438845 \\ 0.374926 \\ 0.127628 \\ 0.058601 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1705 & 3.4385 & 7.4887 \\ 0.8543 & 1 & 2.9377 & 6.3979 \\ 0.2908 & 0.3404 & 1 & 2.1779 \\ 0.1335 & 0.1563 & 0.4592 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.437147 \\ 0.373474 \\ 0.127134 \\ 0.062246 \end{pmatrix} = 0.996129 \cdot \begin{pmatrix} 0.438845 \\ 0.374926 \\ 0.127628 \\ 0.062488 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1705 & 3.4385 & 7.0229 \\ 0.8543 & 1 & 2.9376 & 6 \\ 0.2908 & 0.3404 & 1 & 2.0425 \\ 0.1424 & 1/6 & 0.4896 & 1 \end{pmatrix},$$

Example 0.369.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 8 \\ 1/2 & 1 & 3 & 6 \\ 1/2 & 1/3 & 1 & 3 \\ 1/8 & 1/6 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.454649 \\ 0.331542 \\ 0.160453 \\ \mathbf{0.053356} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.3713 & 2.8335 & \mathbf{8.5210} \\ 0.7292 & 1 & 2.0663 & \mathbf{6.2137} \\ 0.3529 & 0.4840 & 1 & \mathbf{3.0072} \\ \mathbf{0.1174} & \mathbf{0.1609} & \mathbf{0.3325} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.454591 \\ 0.331499 \\ 0.160432 \\ 0.053477 \end{pmatrix} = 0.999873 \cdot \begin{pmatrix} 0.454649 \\ 0.331542 \\ 0.160453 \\ \mathbf{0.053484} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.3713 & 2.8335 & \mathbf{8.5006} \\ 0.7292 & 1 & 2.0663 & \mathbf{6.1989} \\ 0.3529 & 0.4840 & 1 & \mathbf{3} \\ \mathbf{0.1176} & \mathbf{0.1613} & \mathbf{1/3} & 1 \end{pmatrix},$$

Example 0.370.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 8 \\ 1/2 & 1 & 5 & 7 \\ 1/2 & 1/5 & 1 & 2 \\ 1/8 & 1/7 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2287, \quad CR = 0.0862$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.443640 \\ 0.377967 \\ 0.125118 \\ \mathbf{0.053275} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1738 & 3.5458 & \mathbf{8.3273} \\ 0.8520 & 1 & 3.0209 & \mathbf{7.0946} \\ 0.2820 & 0.3310 & 1 & \mathbf{2.3485} \\ \mathbf{0.1201} & \mathbf{0.1410} & \mathbf{0.4258} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.443321 \\ 0.377695 \\ 0.125027 \\ 0.053957 \end{pmatrix} = 0.999281 \cdot \begin{pmatrix} 0.443640 \\ 0.377967 \\ 0.125118 \\ \mathbf{0.053995} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1738 & 3.5458 & \mathbf{8.2163} \\ 0.8520 & 1 & 3.0209 & \mathbf{7} \\ 0.2820 & 0.3310 & 1 & \mathbf{2.3172} \\ \mathbf{0.1217} & \mathbf{1/7} & \mathbf{0.4316} & 1 \end{pmatrix},$$

Example 0.371.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 9 \\ 1/2 & 1 & 2 & 3 \\ 1/2 & 1/2 & 1 & 7 \\ 1/9 & 1/3 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2086, \quad CR = 0.0786$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.455559 \\ 0.263013 \\ 0.228169 \\ 0.053259 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7321 & 1.9966 & 8.5537 \\ 0.5773 & 1 & 1.1527 & 4.9384 \\ 0.5009 & 0.8675 & 1 & 4.2842 \\ 0.1169 & 0.2025 & 0.2334 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.455983 \\ 0.262808 \\ 0.227992 \\ 0.053217 \end{pmatrix} = 0.999221 \cdot \begin{pmatrix} 0.456339 \\ 0.263013 \\ 0.228169 \\ 0.053259 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7350 & 2 & 8.5683 \\ 0.5764 & 1 & 1.1527 & 4.9384 \\ 1/2 & 0.8675 & 1 & 4.2842 \\ 0.1167 & 0.2025 & 0.2334 & 1 \end{pmatrix},$$

Example 0.372.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 9 \\ 1/2 & 1 & 2 & 3 \\ 1/2 & 1/2 & 1 & 8 \\ 1/9 & 1/3 & 1/8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.449790 \\ 0.262391 \\ 0.236388 \\ 0.051430 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7142 & 1.9028 & 8.7457 \\ 0.5834 & 1 & 1.1100 & 5.1019 \\ 0.5256 & 0.9009 & 1 & 4.5963 \\ 0.1143 & 0.1960 & 0.2176 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.456894 \\ 0.259003 \\ 0.233336 \\ 0.050766 \end{pmatrix} = 0.987087 \cdot \begin{pmatrix} 0.462871 \\ 0.262391 \\ 0.236388 \\ 0.051430 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7640 & 1.9581 & 9 \\ 0.5669 & 1 & 1.1100 & 5.1019 \\ 0.5107 & 0.9009 & 1 & 4.5963 \\ 1/9 & 0.1960 & 0.2176 & 1 \end{pmatrix},$$

Example 0.373.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 9 \\ 1/2 & 1 & 3 & 6 \\ 1/2 & 1/3 & 1 & 3 \\ 1/9 & 1/6 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.462190 \\ 0.327409 \\ 0.159170 \\ \mathbf{0.051231} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.4117 & 2.9038 & \mathbf{9.0216} \\ 0.7084 & 1 & 2.0570 & \mathbf{6.3908} \\ 0.3444 & 0.4862 & 1 & \mathbf{3.1069} \\ \mathbf{0.1108} & \mathbf{0.1565} & \mathbf{0.3219} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.462133 \\ 0.327368 \\ 0.159150 \\ 0.051348 \end{pmatrix} = 0.999877 \cdot \begin{pmatrix} 0.462190 \\ 0.327409 \\ 0.159170 \\ \mathbf{0.051355} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.4117 & 2.9038 & \mathbf{9} \\ 0.7084 & 1 & 2.0570 & \mathbf{6.3755} \\ 0.3444 & 0.4862 & 1 & \mathbf{3.0994} \\ \mathbf{1/9} & \mathbf{0.1569} & \mathbf{0.3226} & 1 \end{pmatrix},$$

Example 0.374.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 9 \\ 1/2 & 1 & 4 & 7 \\ 1/2 & 1/4 & 1 & 3 \\ 1/9 & 1/7 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1658, \quad CR = 0.0625$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.451052 \\ 0.357639 \\ 0.144160 \\ 0.047148 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.2612 & 3.1288 & 9.5666 \\ 0.7929 & 1 & 2.4808 & 7.5854 \\ 0.3196 & 0.4031 & 1 & 3.0576 \\ 0.1045 & 0.1318 & 0.3271 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.450644 \\ 0.357315 \\ 0.144030 \\ 0.048010 \end{pmatrix} = 0.999096 \cdot \begin{pmatrix} 0.451052 \\ 0.357639 \\ 0.144160 \\ 0.048054 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.2612 & 3.1288 & 9.3864 \\ 0.7929 & 1 & 2.4808 & 7.4425 \\ 0.3196 & 0.4031 & 1 & 3 \\ 0.1065 & 0.1344 & 1/3 & 1 \end{pmatrix},$$

Example 0.375.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 9 \\ 1/2 & 1 & 4 & 8 \\ 1/2 & 1/4 & 1 & 3 \\ 1/9 & 1/8 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.448211 \\ 0.364426 \\ 0.142271 \\ 0.045091 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.2299 & 3.1504 & 9.9401 \\ 0.8131 & 1 & 2.5615 & 8.0819 \\ 0.3174 & 0.3904 & 1 & 3.1552 \\ 0.1006 & 0.1237 & 0.3169 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.448004 \\ 0.364258 \\ 0.142205 \\ 0.045532 \end{pmatrix} = 0.999538 \cdot \begin{pmatrix} 0.448211 \\ 0.364426 \\ 0.142271 \\ 0.045553 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.2299 & 3.1504 & 9.8393 \\ 0.8131 & 1 & 2.5615 & 8 \\ 0.3174 & 0.3904 & 1 & 3.1232 \\ 0.1016 & 1/8 & 0.3202 & 1 \end{pmatrix},$$

Example 0.376.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 9 \\ 1/2 & 1 & 5 & 8 \\ 1/2 & 1/5 & 1 & 3 \\ 1/9 & 1/8 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2267, \quad CR = 0.0855$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.441193 \\ 0.382384 \\ 0.132709 \\ 0.043715 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1538 & 3.3245 & 10.0926 \\ 0.8667 & 1 & 2.8814 & 8.7473 \\ 0.3008 & 0.3471 & 1 & 3.0358 \\ 0.0991 & 0.1143 & 0.3294 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.440963 \\ 0.382185 \\ 0.132639 \\ 0.044213 \end{pmatrix} = 0.999479 \cdot \begin{pmatrix} 0.441193 \\ 0.382384 \\ 0.132709 \\ 0.044236 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1538 & 3.3245 & 9.9736 \\ 0.8667 & 1 & 2.8814 & 8.6442 \\ 0.3008 & 0.3471 & 1 & 3 \\ 0.1003 & 0.1157 & 1/3 & 1 \end{pmatrix},$$

Example 0.377.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 9 \\ 1/2 & 1 & 5 & 9 \\ 1/2 & 1/5 & 1 & 3 \\ 1/9 & 1/9 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.438816 \\ 0.388119 \\ 0.131063 \\ 0.042002 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1306 & 3.3481 & 10.4476 \\ 0.8845 & 1 & 2.9613 & 9.2406 \\ 0.2987 & 0.3377 & 1 & 3.1204 \\ 0.0957 & 0.1082 & 0.3205 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.438324 \\ 0.387683 \\ 0.130916 \\ 0.043076 \end{pmatrix} = 0.998879 \cdot \begin{pmatrix} 0.438816 \\ 0.388119 \\ 0.131063 \\ 0.043124 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1306 & 3.3481 & 10.1756 \\ 0.8845 & 1 & 2.9613 & 9 \\ 0.2987 & 0.3377 & 1 & 3.0392 \\ 0.0983 & 1/9 & 0.3290 & 1 \end{pmatrix},$$

Example 0.378.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 1/2 \\ 1/2 & 1 & 3 & 1/3 \\ 1/2 & 1/3 & 1 & 1/6 \\ 2 & 3 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.247036 \\ 0.174997 \\ 0.085075 \\ \mathbf{0.492892} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.4117 & 2.9038 & \mathbf{0.5012} \\ 0.7084 & 1 & 2.0570 & \mathbf{0.3550} \\ 0.3444 & 0.4862 & 1 & \mathbf{0.1726} \\ \mathbf{1.9952} & \mathbf{2.8166} & \mathbf{5.7936} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.246745 \\ 0.174790 \\ 0.084974 \\ 0.493490 \end{pmatrix} = 0.998821 \cdot \begin{pmatrix} 0.247036 \\ 0.174997 \\ 0.085075 \\ \mathbf{0.494073} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.4117 & 2.9038 & \mathbf{1/2} \\ 0.7084 & 1 & 2.0570 & \mathbf{0.3542} \\ 0.3444 & 0.4862 & 1 & \mathbf{0.1722} \\ \mathbf{2} & \mathbf{2.8233} & \mathbf{5.8075} & 1 \end{pmatrix},$$

Example 0.379.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 1/3 \\ 1/2 & 1 & 3 & 1/4 \\ 1/2 & 1/3 & 1 & 1/8 \\ 3 & 4 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.204135 \\ 0.148861 \\ 0.072043 \\ \mathbf{0.574961} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.3713 & 2.8335 & \mathbf{0.3550} \\ 0.7292 & 1 & 2.0663 & \mathbf{0.2589} \\ 0.3529 & 0.4840 & 1 & \mathbf{0.1253} \\ \mathbf{2.8166} & \mathbf{3.8624} & \mathbf{7.9809} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.203854 \\ 0.148656 \\ 0.071943 \\ 0.575547 \end{pmatrix} = 0.998622 \cdot \begin{pmatrix} 0.204135 \\ 0.148861 \\ 0.072043 \\ \mathbf{0.576341} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.3713 & 2.8335 & \mathbf{0.3542} \\ 0.7292 & 1 & 2.0663 & \mathbf{0.2583} \\ 0.3529 & 0.4840 & 1 & \mathbf{1/8} \\ \mathbf{2.8233} & \mathbf{3.8717} & \mathbf{8} & 1 \end{pmatrix},$$

Example 0.380.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 1/3 \\ 1/2 & 1 & 3 & 1/4 \\ 1/2 & 1/3 & 1 & 1/9 \\ 3 & 4 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.201386 \\ 0.146194 \\ 0.069041 \\ \mathbf{0.583378} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.3775 & 2.9169 & \mathbf{0.3452} \\ 0.7259 & 1 & 2.1175 & \mathbf{0.2506} \\ 0.3428 & 0.4723 & 1 & \mathbf{0.1183} \\ \mathbf{2.8968} & \mathbf{3.9904} & \mathbf{8.4497} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.201105 \\ 0.145990 \\ 0.068945 \\ 0.583960 \end{pmatrix} = 0.998603 \cdot \begin{pmatrix} 0.201386 \\ 0.146194 \\ 0.069041 \\ \mathbf{0.584777} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.3775 & 2.9169 & \mathbf{0.3444} \\ 0.7259 & 1 & 2.1175 & \mathbf{1/4} \\ 0.3428 & 0.4723 & 1 & \mathbf{0.1181} \\ \mathbf{2.9038} & \mathbf{4} & \mathbf{8.4700} & 1 \end{pmatrix},$$

Example 0.381.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 1/3 \\ 1/2 & 1 & 4 & 1/4 \\ 1/2 & 1/4 & 1 & 1/9 \\ 3 & 4 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.201602 \\ 0.158782 \\ 0.064550 \\ \mathbf{0.575066} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.2697 & 3.1232 & \mathbf{0.3506} \\ 0.7876 & 1 & 2.4598 & \mathbf{0.2761} \\ 0.3202 & 0.4065 & 1 & \mathbf{0.1122} \\ \mathbf{2.8525} & \mathbf{3.6217} & \mathbf{8.9088} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.200422 \\ 0.157853 \\ 0.064172 \\ 0.577553 \end{pmatrix} = 0.994147 \cdot \begin{pmatrix} 0.201602 \\ 0.158782 \\ 0.064550 \\ \mathbf{0.580953} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.2697 & 3.1232 & \mathbf{0.3470} \\ 0.7876 & 1 & 2.4598 & \mathbf{0.2733} \\ 0.3202 & 0.4065 & 1 & \mathbf{1/9} \\ \mathbf{2.8817} & \mathbf{3.6588} & \mathbf{9} & 1 \end{pmatrix},$$

Example 0.382.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 1/3 \\ 1/2 & 1 & 5 & 1/3 \\ 1/2 & 1/5 & 1 & 1/9 \\ 3 & 3 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.209755 \\ 0.185522 \\ 0.062649 \\ 0.542075 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1306 & 3.3481 & 0.3869 \\ 0.8845 & 1 & 2.9613 & 0.3422 \\ 0.2987 & 0.3377 & 1 & 0.1156 \\ 2.5843 & 2.9219 & 8.6526 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.206759 \\ 0.182872 \\ 0.061754 \\ 0.548615 \end{pmatrix} = 0.985716 \cdot \begin{pmatrix} 0.209755 \\ 0.185522 \\ 0.062649 \\ 0.556565 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1306 & 3.3481 & 0.3769 \\ 0.8845 & 1 & 2.9613 & 1/3 \\ 0.2987 & 0.3377 & 1 & 0.1126 \\ 2.6534 & 3 & 8.8839 & 1 \end{pmatrix},$$

Example 0.383.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 1/5 \\ 1/2 & 1 & 2 & 1/2 \\ 1/2 & 1/2 & 1 & 1/7 \\ 5 & 2 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2287, \quad CR = 0.0862$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.187506 \\ 0.166215 \\ \mathbf{0.079841} \\ 0.566438 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1281 & \mathbf{2.3485} & 0.3310 \\ 0.8864 & 1 & \mathbf{2.0818} & 0.2934 \\ \mathbf{0.4258} & \mathbf{0.4803} & 1 & \mathbf{0.1410} \\ 3.0209 & 3.4079 & \mathbf{7.0946} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.187304 \\ 0.166035 \\ 0.080833 \\ 0.565828 \end{pmatrix} = 0.998921 \cdot \begin{pmatrix} 0.187506 \\ 0.166215 \\ \mathbf{0.080920} \\ 0.566438 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1281 & \mathbf{2.3172} & 0.3310 \\ 0.8864 & 1 & \mathbf{2.0541} & 0.2934 \\ \mathbf{0.4316} & \mathbf{0.4868} & 1 & \mathbf{1/7} \\ 3.0209 & 3.4079 & \mathbf{7} & 1 \end{pmatrix},$$

Example 0.384.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 2 & 1/8 \\ 1/2 & 1 & 2 & 1/3 \\ 1/2 & 1/2 & 1 & 1/9 \\ 8 & 3 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.145600 \\ 0.130151 \\ \mathbf{0.065022} \\ 0.659227 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1187 & \mathbf{2.2392} & 0.2209 \\ 0.8939 & 1 & \mathbf{2.0016} & 0.1974 \\ \mathbf{0.4466} & \mathbf{0.4996} & 1 & \mathbf{0.0986} \\ 4.5277 & 5.0651 & \mathbf{10.1385} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.145592 \\ 0.130144 \\ 0.065072 \\ 0.659192 \end{pmatrix} = 0.999947 \cdot \begin{pmatrix} 0.145600 \\ 0.130151 \\ \mathbf{0.065075} \\ 0.659227 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1187 & \mathbf{2.2374} & 0.2209 \\ 0.8939 & 1 & \mathbf{2} & 0.1974 \\ \mathbf{0.4469} & \mathbf{1/2} & 1 & \mathbf{0.0987} \\ 4.5277 & 5.0651 & \mathbf{10.1302} & 1 \end{pmatrix},$$

Example 0.385.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 4 \\ 1/2 & 1 & 2 & 6 \\ 1/3 & 1/2 & 1 & 2 \\ 1/4 & 1/6 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.451852 \\ 0.320085 \\ \mathbf{0.150257} \\ 0.077805 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.4117 & \mathbf{3.0072} & 5.8075 \\ 0.7084 & 1 & \mathbf{2.1303} & 4.1139 \\ \mathbf{0.3325} & \mathbf{0.4694} & 1 & \mathbf{1.9312} \\ 0.1722 & 0.2431 & \mathbf{0.5178} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.451690 \\ 0.319970 \\ 0.150563 \\ 0.077777 \end{pmatrix} = 0.999641 \cdot \begin{pmatrix} 0.451852 \\ 0.320085 \\ \mathbf{0.150617} \\ 0.077805 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.4117 & \mathbf{3} & 5.8075 \\ 0.7084 & 1 & \mathbf{2.1252} & 4.1140 \\ \mathbf{1/3} & \mathbf{0.4706} & 1 & \mathbf{1.9358} \\ 0.1722 & 0.2431 & \mathbf{0.5166} & 1 \end{pmatrix},$$

Example 0.386.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 4 \\ 1/2 & 1 & 2 & 7 \\ 1/3 & 1/2 & 1 & 2 \\ 1/4 & 1/7 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1365, \quad CR = 0.0515$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.447021 \\ 0.331101 \\ \mathbf{0.147632} \\ 0.074246 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.3501 & \mathbf{3.0279} & 6.0208 \\ 0.7407 & 1 & \mathbf{2.2427} & 4.4595 \\ \mathbf{0.3303} & \mathbf{0.4459} & 1 & \mathbf{1.9884} \\ 0.1661 & 0.2242 & \mathbf{0.5029} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.446638 \\ 0.330816 \\ 0.148364 \\ 0.074182 \end{pmatrix} = 0.999143 \cdot \begin{pmatrix} 0.447021 \\ 0.331101 \\ \mathbf{0.148491} \\ 0.074246 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.3501 & \mathbf{3.0104} & 6.0208 \\ 0.7407 & 1 & \mathbf{2.2298} & 4.4595 \\ \mathbf{0.3322} & \mathbf{0.4485} & 1 & \mathbf{2} \\ 0.1661 & 0.2242 & \mathbf{1/2} & 1 \end{pmatrix},$$

Example 0.387.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 6 \\ 1/2 & 1 & 2 & 9 \\ 1/3 & 1/2 & 1 & 3 \\ 1/6 & 1/9 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.463883 \\ 0.328608 \\ \mathbf{0.154258} \\ 0.053251 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.4117 & \mathbf{3.0072} & 8.7113 \\ 0.7084 & 1 & \mathbf{2.1303} & 6.1709 \\ \mathbf{0.3325} & \mathbf{0.4694} & 1 & \mathbf{2.8968} \\ 0.1148 & 0.1621 & \mathbf{0.3452} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.463712 \\ 0.328486 \\ 0.154571 \\ 0.053231 \end{pmatrix} = 0.999631 \cdot \begin{pmatrix} 0.463883 \\ 0.328608 \\ \mathbf{0.154628} \\ 0.053251 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.4117 & \mathbf{3} & 8.7113 \\ 0.7084 & 1 & \mathbf{2.1251} & 6.1709 \\ \mathbf{1/3} & \mathbf{0.4706} & 1 & \mathbf{2.9038} \\ 0.1148 & 0.1621 & \mathbf{0.3444} & 1 \end{pmatrix},$$

Example 0.388.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 6 \\ 1/2 & 1 & 1/2 & 2 \\ 1/3 & 2 & 1 & 3 \\ 1/6 & 1/2 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.503088 \\ 0.172473 \\ 0.243474 \\ 0.080964 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.9169 & 2.0663 & 6.2137 \\ 0.3428 & 1 & 0.7084 & 2.1302 \\ 0.4840 & 1.4117 & 1 & 3.0072 \\ 0.1609 & 0.4694 & 0.3325 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.502991 \\ 0.172440 \\ 0.243427 \\ 0.081142 \end{pmatrix} = 0.999806 \cdot \begin{pmatrix} 0.503088 \\ 0.172473 \\ 0.243474 \\ 0.081158 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.9169 & 2.0663 & 6.1989 \\ 0.3428 & 1 & 0.7084 & 2.1252 \\ 0.4840 & 1.4117 & 1 & 3 \\ 0.1613 & 0.4706 & 1/3 & 1 \end{pmatrix},$$

Example 0.389.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 7 \\ 1/2 & 1 & 2 & 8 \\ 1/3 & 1/2 & 1 & 3 \\ 1/7 & 1/8 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0576, \quad CR = 0.0217$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.477536 \\ 0.315604 \\ \mathbf{0.154773} \\ 0.052086 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.5131 & \mathbf{3.0854} & 9.1682 \\ 0.6609 & 1 & \mathbf{2.0391} & 6.0593 \\ \mathbf{0.3241} & \mathbf{0.4904} & 1 & \mathbf{2.9715} \\ 0.1091 & 0.1650 & \mathbf{0.3365} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.476828 \\ 0.315136 \\ 0.156027 \\ 0.052009 \end{pmatrix} = 0.998517 \cdot \begin{pmatrix} 0.477536 \\ 0.315604 \\ \mathbf{0.156259} \\ 0.052086 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.5131 & \mathbf{3.0561} & 9.1682 \\ 0.6609 & 1 & \mathbf{2.0198} & 6.0593 \\ \mathbf{0.3272} & \mathbf{0.4951} & 1 & \mathbf{3} \\ 0.1091 & 0.1650 & \mathbf{1/3} & 1 \end{pmatrix},$$

Example 0.390.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 7 \\ 1/2 & 1 & 1/3 & 2 \\ 1/3 & 3 & 1 & 4 \\ 1/7 & 1/2 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1964, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.503663 \\ 0.150222 \\ 0.278336 \\ 0.067778 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 3.3528 & 1.8096 & 7.4310 \\ 0.2983 & 1 & 0.5397 & 2.2164 \\ 0.5526 & 1.8528 & 1 & 4.1066 \\ 0.1346 & 0.4512 & 0.2435 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.502756 \\ 0.149951 \\ 0.277834 \\ 0.069459 \end{pmatrix} = 0.998199 \cdot \begin{pmatrix} 0.503663 \\ 0.150222 \\ 0.278336 \\ 0.069584 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 3.3528 & 1.8096 & 7.2382 \\ 0.2983 & 1 & 0.5397 & 2.1589 \\ 0.5526 & 1.8528 & 1 & 4 \\ 0.1382 & 0.4632 & 1/4 & 1 \end{pmatrix},$$

Example 0.391.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 8 \\ 1/2 & 1 & 1/2 & 3 \\ 1/3 & 2 & 1 & 4 \\ 1/8 & 1/3 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.511137 \\ 0.180388 \\ 0.248490 \\ 0.059985 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.8335 & 2.0570 & 8.5210 \\ 0.3529 & 1 & 0.7259 & 3.0072 \\ 0.4862 & 1.3775 & 1 & 4.1425 \\ 0.1174 & 0.3325 & 0.2414 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.511063 \\ 0.180362 \\ 0.248454 \\ 0.060121 \end{pmatrix} = 0.999856 \cdot \begin{pmatrix} 0.511137 \\ 0.180388 \\ 0.248490 \\ 0.060129 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.8335 & 2.0570 & 8.5006 \\ 0.3529 & 1 & 0.7259 & 3 \\ 0.4862 & 1.3775 & 1 & 4.1326 \\ 0.1176 & 1/3 & 0.2420 & 1 \end{pmatrix},$$

Example 0.392.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 9 \\ 1/2 & 1 & 2 & 3 \\ 1/3 & 1/2 & 1 & 5 \\ 1/9 & 1/3 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1252, \quad CR = 0.0472$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.504029 \\ 0.253804 \\ 0.185317 \\ 0.056849 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9859 & 2.7198 & 8.8660 \\ 0.5036 & 1 & 1.3696 & 4.4645 \\ 0.3677 & 0.7302 & 1 & 3.2598 \\ 0.1128 & 0.2240 & 0.3068 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.505798 \\ 0.252899 \\ 0.184656 \\ 0.056647 \end{pmatrix} = 0.996433 \cdot \begin{pmatrix} 0.507609 \\ 0.253804 \\ 0.185317 \\ 0.056849 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 2.7391 & 8.9290 \\ 1/2 & 1 & 1.3696 & 4.4645 \\ 0.3651 & 0.7302 & 1 & 3.2598 \\ 0.1120 & 0.2240 & 0.3068 & 1 \end{pmatrix},$$

Example 0.393.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 9 \\ 1/2 & 1 & 3 & 3 \\ 1/3 & 1/3 & 1 & 5 \\ 1/9 & 1/3 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.490620 \\ 0.284767 \\ 0.167911 \\ 0.056702 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7229 & 2.9219 & 8.6526 \\ 0.5804 & 1 & 1.6959 & 5.0222 \\ 0.3422 & 0.5896 & 1 & 2.9613 \\ 0.1156 & 0.1991 & 0.3377 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.497213 \\ 0.281081 \\ 0.165738 \\ 0.055968 \end{pmatrix} = 0.987056 \cdot \begin{pmatrix} 0.503733 \\ 0.284767 \\ 0.167911 \\ 0.056702 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7689 & 3 & 8.8839 \\ 0.5653 & 1 & 1.6959 & 5.0222 \\ 1/3 & 0.5896 & 1 & 2.9613 \\ 0.1126 & 0.1991 & 0.3377 & 1 \end{pmatrix},$$

Example 0.394.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 9 \\ 1/2 & 1 & 5 & 6 \\ 1/3 & 1/5 & 1 & 2 \\ 1/9 & 1/6 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1252, \quad CR = 0.0472$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.484385 \\ 0.353677 \\ 0.108497 \\ \mathbf{0.053441} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.3696 & 4.4645 & \mathbf{9.0640} \\ 0.7302 & 1 & 3.2598 & \mathbf{6.6181} \\ 0.2240 & 0.3068 & 1 & \mathbf{2.0302} \\ \mathbf{0.1103} & \mathbf{0.1511} & \mathbf{0.4926} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.484201 \\ 0.353543 \\ 0.108456 \\ 0.053800 \end{pmatrix} = 0.999621 \cdot \begin{pmatrix} 0.484385 \\ 0.353677 \\ 0.108497 \\ \mathbf{0.053821} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.3696 & 4.4645 & \mathbf{9} \\ 0.7302 & 1 & 3.2598 & \mathbf{6.5714} \\ 0.2240 & 0.3068 & 1 & \mathbf{2.0159} \\ \mathbf{1/9} & \mathbf{0.1522} & \mathbf{0.4961} & 1 \end{pmatrix},$$

Example 0.395.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 9 \\ 1/2 & 1 & 5 & 7 \\ 1/3 & 1/5 & 1 & 2 \\ 1/9 & 1/7 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1239, \quad CR = 0.0467$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.480532 \\ 0.361786 \\ 0.106930 \\ 0.050751 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.3282 & 4.4939 & 9.4684 \\ 0.7529 & 1 & 3.3834 & 7.1286 \\ 0.2225 & 0.2956 & 1 & 2.1069 \\ 0.1056 & 0.1403 & 0.4746 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.480085 \\ 0.361449 \\ 0.106831 \\ 0.051636 \end{pmatrix} = 0.999069 \cdot \begin{pmatrix} 0.480532 \\ 0.361786 \\ 0.106930 \\ 0.051684 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.3282 & 4.4939 & 9.2976 \\ 0.7529 & 1 & 3.3834 & 7 \\ 0.2225 & 0.2956 & 1 & 2.0689 \\ 0.1076 & 1/7 & 0.4833 & 1 \end{pmatrix},$$

Example 0.396.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 9 \\ 1/2 & 1 & 6 & 7 \\ 1/3 & 1/6 & 1 & 2 \\ 1/9 & 1/7 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1658, \quad CR = 0.0625$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.473821 \\ 0.375692 \\ 0.100958 \\ \mathbf{0.049529} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.2612 & 4.6932 & \mathbf{9.5666} \\ 0.7929 & 1 & 3.7213 & \mathbf{7.5854} \\ 0.2131 & 0.2687 & 1 & \mathbf{2.0384} \\ \mathbf{0.1045} & \mathbf{0.1318} & \mathbf{0.4906} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.473371 \\ 0.375335 \\ 0.100863 \\ 0.050431 \end{pmatrix} = 0.999050 \cdot \begin{pmatrix} 0.473821 \\ 0.375692 \\ 0.100958 \\ \mathbf{0.050479} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.2612 & 4.6932 & \mathbf{9.3865} \\ 0.7929 & 1 & 3.7212 & \mathbf{7.4425} \\ 0.2131 & 0.2687 & 1 & \mathbf{2} \\ \mathbf{0.1065} & \mathbf{0.1344} & \mathbf{1/2} & 1 \end{pmatrix},$$

Example 0.397.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 9 \\ 1/2 & 1 & 6 & 8 \\ 1/3 & 1/6 & 1 & 2 \\ 1/9 & 1/8 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.470525 \\ 0.382569 \\ 0.099569 \\ 0.047336 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.2299 & 4.7256 & 9.9401 \\ 0.8131 & 1 & 3.8422 & 8.0819 \\ 0.2116 & 0.2603 & 1 & 2.1034 \\ 0.1006 & 0.1237 & 0.4754 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.470297 \\ 0.382384 \\ 0.099521 \\ 0.047798 \end{pmatrix} = 0.999515 \cdot \begin{pmatrix} 0.470525 \\ 0.382569 \\ 0.099569 \\ 0.047821 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.2299 & 4.7256 & 9.8393 \\ 0.8131 & 1 & 3.8422 & 8 \\ 0.2116 & 0.2603 & 1 & 2.0821 \\ 0.1016 & 1/8 & 0.4803 & 1 \end{pmatrix},$$

Example 0.398.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 9 \\ 1/2 & 1 & 7 & 8 \\ 1/3 & 1/7 & 1 & 2 \\ 1/9 & 1/8 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2066, \quad CR = 0.0779$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.464495 \\ 0.394553 \\ 0.094708 \\ 0.046244 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1773 & 4.9045 & 10.0444 \\ 0.8494 & 1 & 4.1660 & 8.5320 \\ 0.2039 & 0.2400 & 1 & 2.0480 \\ 0.0996 & 0.1172 & 0.4883 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.463980 \\ 0.394116 \\ 0.094603 \\ 0.047301 \end{pmatrix} = 0.998891 \cdot \begin{pmatrix} 0.464495 \\ 0.394553 \\ 0.094708 \\ 0.047354 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1773 & 4.9045 & 9.8090 \\ 0.8494 & 1 & 4.1660 & 8.3320 \\ 0.2039 & 0.2400 & 1 & 2 \\ 0.1019 & 0.1200 & 1/2 & 1 \end{pmatrix},$$

Example 0.399.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 9 \\ 1/2 & 1 & 7 & 9 \\ 1/3 & 1/7 & 1 & 2 \\ 1/9 & 1/9 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2086, \quad CR = 0.0786$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.461629 \\ 0.400473 \\ 0.093477 \\ 0.044421 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1527 & 4.9384 & 10.3921 \\ 0.8675 & 1 & 4.2842 & 9.0154 \\ 0.2025 & 0.2334 & 1 & 2.1044 \\ 0.0962 & 0.1109 & 0.4752 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.461594 \\ 0.400443 \\ 0.093470 \\ 0.044494 \end{pmatrix} = 0.999924 \cdot \begin{pmatrix} 0.461629 \\ 0.400473 \\ 0.093477 \\ 0.044497 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1527 & 4.9384 & 10.3744 \\ 0.8675 & 1 & 4.2842 & 9 \\ 0.2025 & 0.2334 & 1 & 2.1008 \\ 0.0964 & 1/9 & 0.4760 & 1 \end{pmatrix},$$

Example 0.400.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 9 \\ 1/2 & 1 & 8 & 8 \\ 1/3 & 1/8 & 1 & 2 \\ 1/9 & 1/8 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.458816 \\ 0.405345 \\ 0.090584 \\ \mathbf{0.045255} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1319 & 5.0651 & \mathbf{10.1384} \\ 0.8835 & 1 & 4.4748 & \mathbf{8.9569} \\ 0.1974 & 0.2235 & 1 & \mathbf{2.0016} \\ \mathbf{0.0986} & \mathbf{0.1116} & \mathbf{0.4996} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.458800 \\ 0.405330 \\ 0.090580 \\ 0.045290 \end{pmatrix} = 0.999964 \cdot \begin{pmatrix} 0.458816 \\ 0.405345 \\ 0.090584 \\ \mathbf{0.045292} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1319 & 5.0651 & \mathbf{10.1302} \\ 0.8835 & 1 & 4.4748 & \mathbf{8.9496} \\ 0.1974 & 0.2235 & 1 & \mathbf{2} \\ \mathbf{0.0987} & \mathbf{0.1117} & \mathbf{1/2} & 1 \end{pmatrix},$$

Example 0.401.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 9 \\ 1/2 & 1 & 8 & 9 \\ 1/3 & 1/8 & 1 & 2 \\ 1/9 & 1/9 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.456176 \\ 0.410968 \\ 0.089413 \\ 0.043443 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.1100 & 5.1019 & 10.5006 \\ 0.9009 & 1 & 4.5963 & 9.4599 \\ 0.1960 & 0.2176 & 1 & 2.0582 \\ 0.0952 & 0.1057 & 0.4859 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.455600 \\ 0.410450 \\ 0.089300 \\ 0.044650 \end{pmatrix} = 0.998738 \cdot \begin{pmatrix} 0.456176 \\ 0.410968 \\ 0.089413 \\ 0.044706 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.1100 & 5.1019 & 10.2038 \\ 0.9009 & 1 & 4.5963 & 9.1926 \\ 0.1960 & 0.2176 & 1 & 2 \\ 0.0980 & 0.1088 & 1/2 & 1 \end{pmatrix},$$

Example 0.402.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 9 \\ 1/2 & 1 & 1/2 & 3 \\ 1/3 & 2 & 1 & 4 \\ 1/9 & 1/3 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.518811 \\ 0.178669 \\ 0.245012 \\ \mathbf{0.057508} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.9038 & 2.1175 & \mathbf{9.0216} \\ 0.3444 & 1 & 0.7292 & \mathbf{3.1069} \\ 0.4723 & 1.3713 & 1 & \mathbf{4.2605} \\ \mathbf{0.1108} & \mathbf{0.3219} & \mathbf{0.2347} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.518740 \\ 0.178644 \\ 0.244978 \\ 0.057638 \end{pmatrix} = 0.999863 \cdot \begin{pmatrix} 0.518811 \\ 0.178669 \\ 0.245012 \\ \mathbf{0.057646} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.9038 & 2.1175 & \mathbf{9} \\ 0.3444 & 1 & 0.7292 & \mathbf{3.0994} \\ 0.4723 & 1.3713 & 1 & \mathbf{4.2503} \\ \mathbf{1/9} & \mathbf{0.3226} & \mathbf{0.2353} & 1 \end{pmatrix},$$

Example 0.403.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 9 \\ 1/2 & 1 & 1/3 & 3 \\ 1/3 & 3 & 1 & 5 \\ 1/9 & 1/3 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1966, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.508824 \\ 0.157552 \\ 0.281872 \\ \mathbf{0.051752} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 3.2296 & 1.8052 & \mathbf{9.8320} \\ 0.3096 & 1 & 0.5589 & \mathbf{3.0444} \\ 0.5540 & 1.7891 & 1 & \mathbf{5.4466} \\ \mathbf{0.1017} & \mathbf{0.3285} & \mathbf{0.1836} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.508435 \\ 0.157431 \\ 0.281657 \\ 0.052477 \end{pmatrix} = 0.999236 \cdot \begin{pmatrix} 0.508824 \\ 0.157552 \\ 0.281872 \\ \mathbf{0.052517} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 3.2296 & 1.8052 & \mathbf{9.6887} \\ 0.3096 & 1 & 0.5589 & \mathbf{3} \\ 0.5540 & 1.7891 & 1 & \mathbf{5.3672} \\ \mathbf{0.1032} & \mathbf{1/3} & \mathbf{0.1863} & 1 \end{pmatrix},$$

Example 0.404.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 1/2 \\ 1/2 & 1 & 2 & 1/6 \\ 1/3 & 1/2 & 1 & 1/4 \\ 2 & 6 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.254616 \\ 0.127613 \\ 0.090399 \\ 0.527371 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9952 & 2.8166 & 0.4828 \\ 0.5012 & 1 & 1.4117 & 0.2420 \\ 0.3550 & 0.7084 & 1 & 0.1714 \\ 2.0712 & 4.1326 & 5.8338 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.255071 \\ 0.127535 \\ 0.090344 \\ 0.527050 \end{pmatrix} = 0.999387 \cdot \begin{pmatrix} 0.255227 \\ 0.127613 \\ 0.090399 \\ 0.527371 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 2.8233 & 0.4840 \\ 1/2 & 1 & 1.4117 & 0.2420 \\ 0.3542 & 0.7084 & 1 & 0.1714 \\ 2.0663 & 4.1326 & 5.8338 & 1 \end{pmatrix},$$

Example 0.405.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 1/2 \\ 1/2 & 1 & 1/2 & 1/6 \\ 1/3 & 2 & 1 & 1/4 \\ 2 & 6 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.266099 \\ 0.091226 \\ 0.128781 \\ \mathbf{0.513893} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.9169 & 2.0663 & \mathbf{0.5178} \\ 0.3428 & 1 & 0.7084 & \mathbf{0.1775} \\ 0.4840 & 1.4117 & 1 & \mathbf{0.2506} \\ \mathbf{1.9312} & \mathbf{5.6332} & \mathbf{3.9904} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.265772 \\ 0.091114 \\ 0.128623 \\ 0.514491 \end{pmatrix} = 0.998770 \cdot \begin{pmatrix} 0.266099 \\ 0.091226 \\ 0.128781 \\ \mathbf{0.515124} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.9169 & 2.0663 & \mathbf{0.5166} \\ 0.3428 & 1 & 0.7084 & \mathbf{0.1771} \\ 0.4840 & 1.4117 & 1 & \mathbf{1/4} \\ \mathbf{1.9358} & \mathbf{5.6466} & \mathbf{4} & 1 \end{pmatrix},$$

Example 0.406.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 1/2 \\ 1/2 & 1 & 1/3 & 1/7 \\ 1/3 & 3 & 1 & 1/4 \\ 2 & 7 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1964, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.263374 \\ 0.079049 \\ 0.141984 \\ \mathbf{0.515592} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 3.3318 & 1.8550 & \mathbf{0.5108} \\ 0.3001 & 1 & 0.5567 & \mathbf{0.1533} \\ 0.5391 & 1.7962 & 1 & \mathbf{0.2754} \\ \mathbf{1.9576} & \mathbf{6.5224} & \mathbf{3.6313} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.260469 \\ 0.078177 \\ 0.140418 \\ 0.520937 \end{pmatrix} = 0.988967 \cdot \begin{pmatrix} 0.263374 \\ 0.079049 \\ 0.141984 \\ \mathbf{0.526748} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 3.3318 & 1.8550 & \mathbf{1/2} \\ 0.3001 & 1 & 0.5567 & \mathbf{0.1501} \\ 0.5391 & 1.7962 & 1 & \mathbf{0.2695} \\ \mathbf{2} & \mathbf{6.6636} & \mathbf{3.7099} & 1 \end{pmatrix},$$

Example 0.407.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 1/3 \\ 1/2 & 1 & 2 & 1/8 \\ 1/3 & 1/2 & 1 & 1/7 \\ 3 & 8 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0576, \quad CR = 0.0217$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.202769 \\ 0.103369 \\ 0.068238 \\ 0.625624 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9616 & 2.9715 & 0.3241 \\ 0.5098 & 1 & 1.5148 & 0.1652 \\ 0.3365 & 0.6601 & 1 & 0.1091 \\ 3.0854 & 6.0523 & 9.1682 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.204318 \\ 0.103168 \\ 0.068106 \\ 0.624408 \end{pmatrix} = 0.998057 \cdot \begin{pmatrix} 0.204716 \\ 0.103369 \\ 0.068238 \\ 0.625624 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9804 & 3 & 0.3272 \\ 0.5049 & 1 & 1.5148 & 0.1652 \\ 1/3 & 0.6601 & 1 & 0.1091 \\ 3.0561 & 6.0523 & 9.1682 & 1 \end{pmatrix},$$

Example 0.408.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 1/3 \\ 1/2 & 1 & 2 & 1/9 \\ 1/3 & 1/2 & 1 & 1/5 \\ 3 & 9 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1433, \quad CR = 0.0540$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.204741 \\ 0.103455 \\ 0.077269 \\ 0.614534 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9790 & 2.6497 & 0.3332 \\ 0.5053 & 1 & 1.3389 & 0.1683 \\ 0.3774 & 0.7469 & 1 & 0.1257 \\ 3.0015 & 5.9401 & 7.9531 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.204824 \\ 0.103444 \\ 0.077261 \\ 0.614471 \end{pmatrix} = 0.999891 \cdot \begin{pmatrix} 0.204846 \\ 0.103455 \\ 0.077269 \\ 0.614534 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9800 & 2.6510 & 1/3 \\ 0.5050 & 1 & 1.3389 & 0.1683 \\ 0.3772 & 0.7469 & 1 & 0.1257 \\ 3 & 5.9401 & 7.9531 & 1 \end{pmatrix},$$

Example 0.409.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 1/3 \\ 1/2 & 1 & 2 & 1/9 \\ 1/3 & 1/2 & 1 & 1/6 \\ 3 & 9 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.201487 \\ 0.100985 \\ 0.071536 \\ 0.625992 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9952 & 2.8166 & 0.3219 \\ 0.5012 & 1 & 1.4117 & 0.1613 \\ 0.3550 & 0.7084 & 1 & 0.1143 \\ 3.1069 & 6.1989 & 8.7507 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.201872 \\ 0.100936 \\ 0.071502 \\ 0.625690 \end{pmatrix} = 0.999516 \cdot \begin{pmatrix} 0.201970 \\ 0.100985 \\ 0.071536 \\ 0.625992 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 2.8233 & 0.3226 \\ 1/2 & 1 & 1.4117 & 0.1613 \\ 0.3542 & 0.7084 & 1 & 0.1143 \\ 3.0994 & 6.1989 & 8.7507 & 1 \end{pmatrix},$$

Example 0.410.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 1/3 \\ 1/2 & 1 & 3 & 1/9 \\ 1/3 & 1/3 & 1 & 1/5 \\ 3 & 9 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2508, \quad CR = 0.0946$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.199330 \\ 0.116396 \\ 0.070158 \\ 0.614117 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7125 & 2.8412 & 0.3246 \\ 0.5839 & 1 & 1.6591 & 0.1895 \\ 0.3520 & 0.6028 & 1 & 0.1142 \\ 3.0809 & 5.2761 & 8.7534 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.203611 \\ 0.115773 \\ 0.069783 \\ 0.610833 \end{pmatrix} = 0.994650 \cdot \begin{pmatrix} 0.204706 \\ 0.116396 \\ 0.070158 \\ 0.614117 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7587 & 2.9178 & 1/3 \\ 0.5686 & 1 & 1.6591 & 0.1895 \\ 0.3427 & 0.6028 & 1 & 0.1142 \\ 3 & 5.2761 & 8.7534 & 1 \end{pmatrix},$$

Example 0.411.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 1/3 \\ 1/2 & 1 & 1/2 & 1/8 \\ 1/3 & 2 & 1 & 1/6 \\ 3 & 8 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.214793 \\ 0.075804 \\ 0.104422 \\ \mathbf{0.604981} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.8335 & 2.0570 & \mathbf{0.3550} \\ 0.3529 & 1 & 0.7259 & \mathbf{0.1253} \\ 0.4862 & 1.3775 & 1 & \mathbf{0.1726} \\ \mathbf{2.8166} & \mathbf{7.9809} & \mathbf{5.7936} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.214482 \\ 0.075694 \\ 0.104271 \\ 0.605553 \end{pmatrix} = 0.998550 \cdot \begin{pmatrix} 0.214793 \\ 0.075804 \\ 0.104422 \\ \mathbf{0.606432} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.8335 & 2.0570 & \mathbf{0.3542} \\ 0.3529 & 1 & 0.7259 & \mathbf{1/8} \\ 0.4862 & 1.3775 & 1 & \mathbf{0.1722} \\ \mathbf{2.8233} & \mathbf{8} & \mathbf{5.8075} & 1 \end{pmatrix},$$

Example 0.412.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 1/3 \\ 1/2 & 1 & 1/2 & 1/9 \\ 1/3 & 2 & 1 & 1/6 \\ 3 & 9 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.211703 \\ 0.072578 \\ 0.102456 \\ \mathbf{0.613263} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.9169 & 2.0663 & \mathbf{0.3452} \\ 0.3428 & 1 & 0.7084 & \mathbf{0.1183} \\ 0.4840 & 1.4117 & 1 & \mathbf{0.1671} \\ \mathbf{2.8968} & \mathbf{8.4497} & \mathbf{5.9857} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.211392 \\ 0.072471 \\ 0.102305 \\ 0.613831 \end{pmatrix} = 0.998531 \cdot \begin{pmatrix} 0.211703 \\ 0.072578 \\ 0.102456 \\ \mathbf{0.614734} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.9169 & 2.0663 & \mathbf{0.3444} \\ 0.3428 & 1 & 0.7084 & \mathbf{0.1181} \\ 0.4840 & 1.4117 & 1 & \mathbf{1/6} \\ \mathbf{2.9038} & \mathbf{8.4700} & \mathbf{6} & 1 \end{pmatrix},$$

Example 0.413.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 3 & 1/3 \\ 1/2 & 1 & 1/3 & 1/9 \\ 1/3 & 3 & 1 & 1/5 \\ 3 & 9 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1966, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.219537 \\ 0.067687 \\ 0.123300 \\ 0.589476 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 3.2434 & 1.7805 & 0.3724 \\ 0.3083 & 1 & 0.5490 & 0.1148 \\ 0.5616 & 1.8216 & 1 & 0.2092 \\ 2.6851 & 8.7088 & 4.7808 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.215294 \\ 0.066379 \\ 0.120917 \\ 0.597410 \end{pmatrix} = 0.980671 \cdot \begin{pmatrix} 0.219537 \\ 0.067687 \\ 0.123300 \\ 0.609185 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 3.2434 & 1.7805 & 0.3604 \\ 0.3083 & 1 & 0.5490 & 1/9 \\ 0.5616 & 1.8216 & 1 & 0.2024 \\ 2.7749 & 9 & 4.9407 & 1 \end{pmatrix},$$

Example 0.414.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 5 \\ 1/2 & 1 & 3 & 8 \\ 1/4 & 1/3 & 1 & 2 \\ 1/5 & 1/8 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1163, \quad CR = 0.0439$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.472959 \\ 0.348577 \\ \mathbf{0.115583} \\ 0.062880 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.3568 & \mathbf{4.0919} & 7.5216 \\ 0.7370 & 1 & \mathbf{3.0158} & 5.5435 \\ \mathbf{0.2444} & \mathbf{0.3316} & 1 & \mathbf{1.8381} \\ 0.1330 & 0.1804 & \mathbf{0.5440} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.472671 \\ 0.348365 \\ 0.116122 \\ 0.062842 \end{pmatrix} = 0.999391 \cdot \begin{pmatrix} 0.472959 \\ 0.348577 \\ \mathbf{0.116193} \\ 0.062880 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.3568 & \mathbf{4.0705} & 7.5216 \\ 0.7370 & 1 & \mathbf{3} & 5.5435 \\ \mathbf{0.2457} & \mathbf{1/3} & 1 & \mathbf{1.8478} \\ 0.1330 & 0.1804 & \mathbf{0.5412} & 1 \end{pmatrix},$$

Example 0.415.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 5 \\ 1/2 & 1 & 3 & 9 \\ 1/4 & 1/3 & 1 & 2 \\ 1/5 & 1/9 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1406, \quad CR = 0.0530$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.468689 \\ 0.356941 \\ \mathbf{0.113780} \\ 0.060590 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.3131 & \mathbf{4.1193} & 7.7354 \\ 0.7616 & 1 & \mathbf{3.1371} & 5.8911 \\ \mathbf{0.2428} & \mathbf{0.3188} & 1 & \mathbf{1.8779} \\ 0.1293 & 0.1697 & \mathbf{0.5325} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.467105 \\ 0.355734 \\ 0.116776 \\ 0.060385 \end{pmatrix} = 0.996619 \cdot \begin{pmatrix} 0.468689 \\ 0.356941 \\ \mathbf{0.117172} \\ 0.060590 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.3131 & \mathbf{4} & 7.7354 \\ 0.7616 & 1 & \mathbf{3.0463} & 5.8911 \\ \mathbf{1/4} & \mathbf{0.3283} & 1 & \mathbf{1.9338} \\ 0.1293 & 0.1697 & \mathbf{0.5171} & 1 \end{pmatrix},$$

Example 0.416.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 6 \\ 1/2 & 1 & 3 & 9 \\ 1/4 & 1/3 & 1 & 2 \\ 1/6 & 1/9 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.480404 \\ 0.350323 \\ \mathbf{0.112758} \\ 0.056514 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.3713 & \mathbf{4.2605} & 8.5006 \\ 0.7292 & 1 & \mathbf{3.1069} & 6.1988 \\ \mathbf{0.2347} & \mathbf{0.3219} & 1 & \mathbf{1.9952} \\ 0.1176 & 0.1613 & \mathbf{0.5012} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.480275 \\ 0.350229 \\ 0.112998 \\ 0.056499 \end{pmatrix} = 0.999730 \cdot \begin{pmatrix} 0.480404 \\ 0.350323 \\ \mathbf{0.113028} \\ 0.056514 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.3713 & \mathbf{4.2503} & 8.5006 \\ 0.7292 & 1 & \mathbf{3.0994} & 6.1989 \\ \mathbf{0.2353} & \mathbf{0.3226} & 1 & \mathbf{2} \\ 0.1176 & 0.1613 & \mathbf{1/2} & 1 \end{pmatrix},$$

Example 0.417.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 7 \\ 1/2 & 1 & 4 & 2 \\ 1/4 & 1/4 & 1 & 1/3 \\ 1/7 & 1/2 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2421, \quad CR = 0.0913$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.536298 \\ 0.256585 \\ 0.074749 \\ 0.132368 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0901 & 7.1747 & 4.0516 \\ 0.4784 & 1 & 3.4326 & 1.9384 \\ 0.1394 & 0.2913 & 1 & 0.5647 \\ 0.2468 & 0.5159 & 1.7708 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.531962 \\ 0.262596 \\ 0.074144 \\ 0.131298 \end{pmatrix} = 0.991915 \cdot \begin{pmatrix} 0.536298 \\ 0.264736 \\ 0.074749 \\ 0.132368 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0258 & 7.1747 & 4.0516 \\ 0.4936 & 1 & 3.5417 & 2 \\ 0.1394 & 0.2824 & 1 & 0.5647 \\ 0.2468 & 1/2 & 1.7708 & 1 \end{pmatrix},$$

Example 0.418.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 8 \\ 1/2 & 1 & 3 & 3 \\ 1/4 & 1/3 & 1 & 3 \\ 1/8 & 1/3 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.521712 \\ 0.277844 \\ 0.135074 \\ 0.065370 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8777 & 3.8624 & 7.9808 \\ 0.5326 & 1 & 2.0570 & 4.2503 \\ 0.2589 & 0.4861 & 1 & 2.0663 \\ 0.1253 & 0.2353 & 0.4840 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.522309 \\ 0.277497 \\ 0.134905 \\ 0.065289 \end{pmatrix} = 0.998752 \cdot \begin{pmatrix} 0.522962 \\ 0.277844 \\ 0.135074 \\ 0.065370 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.8822 & 3.8717 & 8 \\ 0.5313 & 1 & 2.0570 & 4.2503 \\ 0.2583 & 0.4861 & 1 & 2.0663 \\ 1/8 & 0.2353 & 0.4840 & 1 \end{pmatrix},$$

Example 0.419.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 9 \\ 1/2 & 1 & 3 & 3 \\ 1/4 & 1/3 & 1 & 3 \\ 1/9 & 1/3 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.530010 \\ 0.274445 \\ 0.132820 \\ 0.062725 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9312 & 3.9904 & 8.4497 \\ 0.5178 & 1 & 2.0663 & 4.3754 \\ 0.2506 & 0.4840 & 1 & 2.1175 \\ 0.1183 & 0.2286 & 0.4723 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.530606 \\ 0.274097 \\ 0.132652 \\ 0.062646 \end{pmatrix} = 0.998733 \cdot \begin{pmatrix} 0.531279 \\ 0.274445 \\ 0.132820 \\ 0.062725 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9358 & 4 & 8.4700 \\ 0.5166 & 1 & 2.0663 & 4.3754 \\ 1/4 & 0.4840 & 1 & 2.1175 \\ 0.1181 & 0.2286 & 0.4723 & 1 \end{pmatrix},$$

Example 0.420.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 9 \\ 1/2 & 1 & 3 & 3 \\ 1/4 & 1/3 & 1 & 4 \\ 1/9 & 1/3 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.522406 \\ 0.274712 \\ 0.144243 \\ 0.058640 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9017 & 3.6217 & 8.9088 \\ 0.5259 & 1 & 1.9045 & 4.6848 \\ 0.2761 & 0.5251 & 1 & 2.4598 \\ 0.1122 & 0.2135 & 0.4065 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.524947 \\ 0.273250 \\ 0.143475 \\ 0.058328 \end{pmatrix} = 0.994679 \cdot \begin{pmatrix} 0.527755 \\ 0.274712 \\ 0.144243 \\ 0.058640 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9211 & 3.6588 & 9 \\ 0.5205 & 1 & 1.9045 & 4.6848 \\ 0.2733 & 0.5251 & 1 & 2.4598 \\ 1/9 & 0.2135 & 0.4065 & 1 \end{pmatrix},$$

Example 0.421.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 9 \\ 1/2 & 1 & 4 & 3 \\ 1/4 & 1/4 & 1 & 4 \\ 1/9 & 1/3 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.510079 \\ 0.297562 \\ 0.134036 \\ 0.058323 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7142 & 3.8055 & 8.7457 \\ 0.5834 & 1 & 2.2200 & 5.1019 \\ 0.2628 & 0.4504 & 1 & 2.2982 \\ 0.1143 & 0.1960 & 0.4351 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.517240 \\ 0.293212 \\ 0.132077 \\ 0.057471 \end{pmatrix} = 0.985383 \cdot \begin{pmatrix} 0.524913 \\ 0.297562 \\ 0.134036 \\ 0.058323 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7640 & 3.9162 & 9 \\ 0.5669 & 1 & 2.2200 & 5.1019 \\ 0.2553 & 0.4504 & 1 & 2.2981 \\ 1/9 & 0.1960 & 0.4351 & 1 \end{pmatrix},$$

Example 0.422.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 9 \\ 1/2 & 1 & 1/2 & 3 \\ 1/4 & 2 & 1 & 4 \\ 1/9 & 1/3 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.548079 \\ 0.173971 \\ 0.222813 \\ \mathbf{0.055138} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 3.1504 & 2.4598 & \mathbf{9.9401} \\ 0.3174 & 1 & 0.7808 & \mathbf{3.1552} \\ 0.4065 & 1.2807 & 1 & \mathbf{4.0410} \\ \mathbf{0.1006} & \mathbf{0.3169} & \mathbf{0.2475} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.547769 \\ 0.173872 \\ 0.222687 \\ 0.055672 \end{pmatrix} = 0.999436 \cdot \begin{pmatrix} 0.548079 \\ 0.173971 \\ 0.222813 \\ \mathbf{0.055703} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 3.1504 & 2.4598 & \mathbf{9.8393} \\ 0.3174 & 1 & 0.7808 & \mathbf{3.1232} \\ 0.4065 & 1.2808 & 1 & \mathbf{4} \\ \mathbf{0.1016} & \mathbf{0.3202} & \mathbf{1/4} & 1 \end{pmatrix},$$

Example 0.423.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 1/2 \\ 1/2 & 1 & 3 & 1/6 \\ 1/4 & 1/3 & 1 & 1/5 \\ 2 & 6 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1406, \quad CR = 0.0530$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.259825 \\ 0.135850 \\ 0.069181 \\ 0.535143 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9126 & 3.7557 & 0.4855 \\ 0.5229 & 1 & 1.9637 & 0.2539 \\ 0.2663 & 0.5092 & 1 & 0.1293 \\ 2.0596 & 3.9392 & 7.7354 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.265515 \\ 0.134806 \\ 0.068649 \\ 0.531030 \end{pmatrix} = 0.992313 \cdot \begin{pmatrix} 0.267572 \\ 0.135850 \\ 0.069181 \\ 0.535143 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9696 & 3.8677 & 1/2 \\ 0.5077 & 1 & 1.9637 & 0.2539 \\ 0.2586 & 0.5092 & 1 & 0.1293 \\ 2 & 3.9392 & 7.7354 & 1 \end{pmatrix},$$

Example 0.424.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 1/2 \\ 1/2 & 1 & 3 & 1/6 \\ 1/4 & 1/3 & 1 & 1/6 \\ 2 & 6 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.256498 \\ 0.132817 \\ 0.064278 \\ 0.546406 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9312 & 3.9904 & 0.4694 \\ 0.5178 & 1 & 2.0663 & 0.2431 \\ 0.2506 & 0.4840 & 1 & 0.1176 \\ 2.1303 & 4.1140 & 8.5006 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.256955 \\ 0.132736 \\ 0.064239 \\ 0.546070 \end{pmatrix} = 0.999387 \cdot \begin{pmatrix} 0.257113 \\ 0.132817 \\ 0.064278 \\ 0.546406 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9358 & 4 & 0.4706 \\ 0.5166 & 1 & 2.0663 & 0.2431 \\ 1/4 & 0.4840 & 1 & 0.1176 \\ 2.1252 & 4.1140 & 8.5006 & 1 \end{pmatrix},$$

Example 0.425.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 1/2 \\ 1/2 & 1 & 3 & 1/7 \\ 1/4 & 1/3 & 1 & 1/5 \\ 2 & 7 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1782, \quad CR = 0.0672$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.253193 \\ 0.128776 \\ 0.068034 \\ 0.549998 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9662 & 3.7216 & 0.4604 \\ 0.5086 & 1 & 1.8928 & 0.2341 \\ 0.2687 & 0.5283 & 1 & 0.1237 \\ 2.1723 & 4.2710 & 8.0841 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.256433 \\ 0.128217 \\ 0.067739 \\ 0.547611 \end{pmatrix} = 0.995663 \cdot \begin{pmatrix} 0.257550 \\ 0.128776 \\ 0.068034 \\ 0.549998 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.7856 & 0.4683 \\ 1/2 & 1 & 1.8928 & 0.2341 \\ 0.2642 & 0.5283 & 1 & 0.1237 \\ 2.1355 & 4.2710 & 8.0842 & 1 \end{pmatrix},$$

Example 0.426.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 1/2 \\ 1/2 & 1 & 3 & 1/7 \\ 1/4 & 1/3 & 1 & 1/6 \\ 2 & 7 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1365, \quad CR = 0.0515$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.250127 \\ 0.125791 \\ 0.063114 \\ 0.560968 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9884 & 3.9631 & 0.4459 \\ 0.5029 & 1 & 1.9931 & 0.2242 \\ 0.2523 & 0.5017 & 1 & 0.1125 \\ 2.2427 & 4.4595 & 8.8882 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.251217 \\ 0.125608 \\ 0.063022 \\ 0.560153 \end{pmatrix} = 0.998544 \cdot \begin{pmatrix} 0.251583 \\ 0.125791 \\ 0.063114 \\ 0.560968 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.9862 & 0.4485 \\ 1/2 & 1 & 1.9931 & 0.2242 \\ 0.2509 & 0.5017 & 1 & 0.1125 \\ 2.2298 & 4.4595 & 8.8882 & 1 \end{pmatrix},$$

Example 0.427.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 1/2 \\ 1/2 & 1 & 4 & 1/6 \\ 1/4 & 1/4 & 1 & 1/5 \\ 2 & 6 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2162, \quad CR = 0.0815$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.254711 \\ 0.147374 \\ 0.064429 \\ 0.533487 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7283 & 3.9534 & 0.4774 \\ 0.5786 & 1 & 2.2874 & 0.2762 \\ 0.2530 & 0.4372 & 1 & 0.1208 \\ 2.0945 & 3.6200 & 8.2802 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.256944 \\ 0.146932 \\ 0.064236 \\ 0.531888 \end{pmatrix} = 0.997003 \cdot \begin{pmatrix} 0.257716 \\ 0.147374 \\ 0.064429 \\ 0.533487 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7487 & 4 & 0.4831 \\ 0.5718 & 1 & 2.2874 & 0.2762 \\ 1/4 & 0.4372 & 1 & 0.1208 \\ 2.0701 & 3.6200 & 8.2802 & 1 \end{pmatrix},$$

Example 0.428.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 1/2 \\ 1/2 & 1 & 4 & 1/7 \\ 1/4 & 1/4 & 1 & 1/5 \\ 2 & 7 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2610, \quad CR = 0.0984$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.247681 \\ 0.139783 \\ 0.063385 \\ 0.549151 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7719 & 3.9076 & 0.4510 \\ 0.5644 & 1 & 2.2053 & 0.2545 \\ 0.2559 & 0.4535 & 1 & 0.1154 \\ 2.2172 & 3.9286 & 8.6638 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.252062 \\ 0.138969 \\ 0.063016 \\ 0.545953 \end{pmatrix} = 0.994175 \cdot \begin{pmatrix} 0.253539 \\ 0.139783 \\ 0.063385 \\ 0.549151 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.8138 & 4 & 0.4617 \\ 0.5513 & 1 & 2.2053 & 0.2545 \\ 1/4 & 0.4535 & 1 & 0.1154 \\ 2.1659 & 3.9286 & 8.6638 & 1 \end{pmatrix},$$

Example 0.429.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 1/2 \\ 1/2 & 1 & 1/2 & 1/6 \\ 1/4 & 2 & 1 & 1/5 \\ 2 & 6 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.279025 \\ 0.089053 \\ 0.111200 \\ \mathbf{0.520723} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 3.1333 & 2.5092 & \mathbf{0.5358} \\ 0.3192 & 1 & 0.8008 & \mathbf{0.1710} \\ 0.3985 & 1.2487 & 1 & \mathbf{0.2135} \\ \mathbf{1.8662} & \mathbf{5.8474} & \mathbf{4.6828} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.275283 \\ 0.087858 \\ 0.109708 \\ 0.527150 \end{pmatrix} = 0.986589 \cdot \begin{pmatrix} 0.279025 \\ 0.089053 \\ 0.111200 \\ \mathbf{0.534316} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 3.1333 & 2.5092 & \mathbf{0.5222} \\ 0.3192 & 1 & 0.8008 & \mathbf{1/6} \\ 0.3985 & 1.2487 & 1 & \mathbf{0.2081} \\ \mathbf{1.9149} & \mathbf{6} & \mathbf{4.8050} & 1 \end{pmatrix},$$

Example 0.430.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 1/2 \\ 1/2 & 1 & 1/2 & 1/7 \\ 1/4 & 2 & 1 & 1/5 \\ 2 & 7 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1665, \quad CR = 0.0628$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.274716 \\ 0.084545 \\ 0.108694 \\ 0.532045 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 3.2493 & 2.5274 & 0.5163 \\ 0.3078 & 1 & 0.7778 & 0.1589 \\ 0.3957 & 1.2856 & 1 & 0.2043 \\ 1.9367 & 6.2930 & 4.8949 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.271613 \\ 0.083590 \\ 0.107466 \\ 0.537330 \end{pmatrix} = 0.988705 \cdot \begin{pmatrix} 0.274716 \\ 0.084545 \\ 0.108694 \\ 0.543469 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 3.2493 & 2.5274 & 0.5055 \\ 0.3078 & 1 & 0.7778 & 0.1556 \\ 0.3957 & 1.2856 & 1 & 1/5 \\ 1.9783 & 6.4282 & 5 & 1 \end{pmatrix},$$

Example 0.431.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 1/3 \\ 1/2 & 1 & 3 & 1/8 \\ 1/4 & 1/3 & 1 & 1/8 \\ 3 & 8 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.208392 \\ 0.110981 \\ 0.053954 \\ 0.626673 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8777 & 3.8624 & 0.3325 \\ 0.5326 & 1 & 2.0570 & 0.1771 \\ 0.2589 & 0.4861 & 1 & 0.0861 \\ 3.0072 & 5.6466 & 11.6150 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.208787 \\ 0.110926 \\ 0.053927 \\ 0.626360 \end{pmatrix} = 0.999501 \cdot \begin{pmatrix} 0.208891 \\ 0.110981 \\ 0.053954 \\ 0.626673 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.8822 & 3.8717 & 1/3 \\ 0.5313 & 1 & 2.0570 & 0.1771 \\ 0.2583 & 0.4862 & 1 & 0.0861 \\ 3 & 5.6466 & 11.6150 & 1 \end{pmatrix},$$

Example 0.432.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 1/3 \\ 1/2 & 1 & 3 & 1/9 \\ 1/4 & 1/3 & 1 & 1/7 \\ 3 & 9 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1571, \quad CR = 0.0593$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.206259 \\ 0.108248 \\ 0.056235 \\ 0.629258 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9054 & 3.6678 & 0.3278 \\ 0.5248 & 1 & 1.9249 & 0.1720 \\ 0.2726 & 0.5195 & 1 & 0.0894 \\ 3.0508 & 5.8131 & 11.1898 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.209022 \\ 0.107871 \\ 0.056039 \\ 0.627068 \end{pmatrix} = 0.996522 \cdot \begin{pmatrix} 0.209752 \\ 0.108248 \\ 0.056235 \\ 0.629258 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9377 & 3.7299 & 1/3 \\ 0.5161 & 1 & 1.9249 & 0.1720 \\ 0.2681 & 0.5195 & 1 & 0.0894 \\ 3 & 5.8131 & 11.1898 & 1 \end{pmatrix},$$

Example 0.433.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 1/3 \\ 1/2 & 1 & 3 & 1/9 \\ 1/4 & 1/3 & 1 & 1/8 \\ 3 & 9 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1263, \quad CR = 0.0476$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.203755 \\ 0.106166 \\ 0.053083 \\ 0.636996 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9192 & 3.8384 & 0.3199 \\ 0.5210 & 1 & 2.0000 & 0.1667 \\ 0.2605 & 0.5000 & 1 & 0.0833 \\ 3.1263 & 6.0000 & 12.0000 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.210526 \\ 0.105263 \\ 0.052632 \\ 0.631579 \end{pmatrix} = 0.991496 \cdot \begin{pmatrix} 0.212332 \\ 0.106166 \\ 0.053083 \\ 0.636996 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0000 & 4.0000 & 1/3 \\ 0.5000 & 1 & 2.0000 & 0.1667 \\ 0.2500 & 0.5000 & 1 & 0.0833 \\ 3 & 6.0000 & 12.0000 & 1 \end{pmatrix},$$

Example 0.434.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 1/3 \\ 1/2 & 1 & 3 & 1/9 \\ 1/4 & 1/3 & 1 & 1/9 \\ 3 & 9 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.201459 \\ 0.104318 \\ 0.050486 \\ 0.643737 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9312 & 3.9904 & 0.3130 \\ 0.5178 & 1 & 2.0663 & 0.1621 \\ 0.2506 & 0.4840 & 1 & 0.0784 \\ 3.1954 & 6.1709 & 12.7509 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.201845 \\ 0.104267 \\ 0.050461 \\ 0.643427 \end{pmatrix} = 0.999514 \cdot \begin{pmatrix} 0.201943 \\ 0.104318 \\ 0.050486 \\ 0.643737 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9358 & 4 & 0.3137 \\ 0.5166 & 1 & 2.0663 & 0.1620 \\ 1/4 & 0.4840 & 1 & 0.0784 \\ 3.1877 & 6.1710 & 12.7509 & 1 \end{pmatrix},$$

Example 0.435.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 1/3 \\ 1/2 & 1 & 4 & 1/9 \\ 1/4 & 1/4 & 1 & 1/7 \\ 3 & 9 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2359, \quad CR = 0.0890$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.202147 \\ 0.117589 \\ 0.052419 \\ 0.627845 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7191 & 3.8563 & 0.3220 \\ 0.5817 & 1 & 2.2432 & 0.1873 \\ 0.2593 & 0.4458 & 1 & 0.0835 \\ 3.1059 & 5.3393 & 11.9774 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.207799 \\ 0.116756 \\ 0.052048 \\ 0.623397 \end{pmatrix} = 0.992918 \cdot \begin{pmatrix} 0.209281 \\ 0.117589 \\ 0.052419 \\ 0.627845 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7798 & 3.9925 & 1/3 \\ 0.5619 & 1 & 2.2432 & 0.1873 \\ 0.2505 & 0.4458 & 1 & 0.0835 \\ 3 & 5.3393 & 11.9774 & 1 \end{pmatrix},$$

Example 0.436.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 1/3 \\ 1/2 & 1 & 1/2 & 1/9 \\ 1/4 & 2 & 1 & 1/7 \\ 3 & 9 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1658, \quad CR = 0.0625$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.223904 \\ 0.071207 \\ 0.090396 \\ \mathbf{0.614492} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 3.1444 & 2.4769 & \mathbf{0.3644} \\ 0.3180 & 1 & 0.7877 & \mathbf{0.1159} \\ 0.4037 & 1.2695 & 1 & \mathbf{0.1471} \\ \mathbf{2.7445} & \mathbf{8.6296} & \mathbf{6.7978} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.219884 \\ 0.069929 \\ 0.088773 \\ 0.621414 \end{pmatrix} = 0.982047 \cdot \begin{pmatrix} 0.223904 \\ 0.071207 \\ 0.090396 \\ \mathbf{0.632774} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 3.1444 & 2.4769 & \mathbf{0.3538} \\ 0.3180 & 1 & 0.7877 & \mathbf{0.1125} \\ 0.4037 & 1.2695 & 1 & \mathbf{1/7} \\ \mathbf{2.8261} & \mathbf{8.8864} & \mathbf{7} & 1 \end{pmatrix},$$

Example 0.437.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 4 & 1/3 \\ 1/2 & 1 & 1/2 & 1/9 \\ 1/4 & 2 & 1 & 1/8 \\ 3 & 9 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.218988 \\ 0.070117 \\ 0.086238 \\ \mathbf{0.624658} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 3.1232 & 2.5394 & \mathbf{0.3506} \\ 0.3202 & 1 & 0.8131 & \mathbf{0.1122} \\ 0.3938 & 1.2299 & 1 & \mathbf{0.1381} \\ \mathbf{2.8525} & \mathbf{8.9088} & \mathbf{7.2435} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.217596 \\ 0.069671 \\ 0.085690 \\ 0.627043 \end{pmatrix} = 0.993645 \cdot \begin{pmatrix} 0.218988 \\ 0.070117 \\ 0.086238 \\ \mathbf{0.631053} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 3.1232 & 2.5394 & \mathbf{0.3470} \\ 0.3202 & 1 & 0.8131 & \mathbf{1/9} \\ 0.3938 & 1.2299 & 1 & \mathbf{0.1367} \\ \mathbf{2.8817} & \mathbf{9} & \mathbf{7.3176} & 1 \end{pmatrix},$$

Example 0.438.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 6 \\ 1/2 & 1 & 5 & 2 \\ 1/5 & 1/5 & 1 & 2 \\ 1/6 & 1/2 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.510431 \\ 0.296266 \\ 0.104815 \\ 0.088487 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7229 & 4.8698 & 5.7684 \\ 0.5804 & 1 & 2.8266 & 3.3481 \\ 0.2053 & 0.3538 & 1 & 1.1845 \\ 0.1734 & 0.2987 & 0.8442 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.517021 \\ 0.292278 \\ 0.103404 \\ 0.087296 \end{pmatrix} = 0.986539 \cdot \begin{pmatrix} 0.524076 \\ 0.296266 \\ 0.104815 \\ 0.088487 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7689 & 5 & 5.9226 \\ 0.5653 & 1 & 2.8266 & 3.3481 \\ 1/5 & 0.3538 & 1 & 1.1845 \\ 0.1688 & 0.2987 & 0.8442 & 1 \end{pmatrix},$$

Example 0.439.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 7 \\ 1/2 & 1 & 5 & 2 \\ 1/5 & 1/5 & 1 & 1/4 \\ 1/7 & 1/2 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2610, \quad CR = 0.0984$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.544321 \\ 0.259042 \\ 0.059765 \\ 0.136873 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.1013 & 9.1077 & 3.9768 \\ 0.4759 & 1 & 4.3344 & 1.8926 \\ 0.1098 & 0.2307 & 1 & 0.4366 \\ 0.2515 & 0.5284 & 2.2902 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.537272 \\ 0.268636 \\ 0.058991 \\ 0.135101 \end{pmatrix} = 0.987051 \cdot \begin{pmatrix} 0.544321 \\ 0.272160 \\ 0.059765 \\ 0.136873 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 9.1077 & 3.9768 \\ 1/2 & 1 & 4.5539 & 1.9884 \\ 0.1098 & 0.2196 & 1 & 0.4366 \\ 0.2515 & 0.5029 & 2.2902 & 1 \end{pmatrix},$$

Example 0.440.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 8 \\ 1/2 & 1 & 2 & 5 \\ 1/5 & 1/2 & 1 & 3 \\ 1/8 & 1/5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0332, \quad CR = 0.0125$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.542689 \\ 0.268294 \\ 0.134213 \\ 0.054804 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0227 & 4.0435 & 9.9024 \\ 0.4944 & 1 & 1.9990 & 4.8955 \\ 0.2473 & 0.5002 & 1 & 2.4490 \\ 0.1010 & 0.2043 & 0.4083 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.542616 \\ 0.268391 \\ 0.134196 \\ 0.054797 \end{pmatrix} = 0.999866 \cdot \begin{pmatrix} 0.542689 \\ 0.268427 \\ 0.134213 \\ 0.054804 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0217 & 4.0435 & 9.9023 \\ 0.4946 & 1 & 2 & 4.8979 \\ 0.2473 & 1/2 & 1 & 2.4490 \\ 0.1010 & 0.2042 & 0.4083 & 1 \end{pmatrix},$$

Example 0.441.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 9 \\ 1/2 & 1 & 2 & 6 \\ 1/5 & 1/2 & 1 & 4 \\ 1/9 & 1/6 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0539, \quad CR = 0.0203$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.542698 \\ 0.271084 \\ 0.140200 \\ 0.046017 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0020 & 3.8709 & 11.7933 \\ 0.4995 & 1 & 1.9336 & 5.8909 \\ 0.2583 & 0.5172 & 1 & 3.0467 \\ 0.0848 & 0.1698 & 0.3282 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.542555 \\ 0.271277 \\ 0.140163 \\ 0.046005 \end{pmatrix} = 0.999736 \cdot \begin{pmatrix} 0.542698 \\ 0.271349 \\ 0.140200 \\ 0.046017 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.8709 & 11.7933 \\ 1/2 & 1 & 1.9354 & 5.8967 \\ 0.2583 & 0.5167 & 1 & 3.0467 \\ 0.0848 & 0.1696 & 0.3282 & 1 \end{pmatrix},$$

Example 0.442.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 9 \\ 1/2 & 1 & 4 & 3 \\ 1/5 & 1/4 & 1 & 3 \\ 1/9 & 1/3 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.536652 \\ 0.287561 \\ 0.114602 \\ 0.061185 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8662 & 4.6828 & 8.7710 \\ 0.5358 & 1 & 2.5092 & 4.6999 \\ 0.2135 & 0.3985 & 1 & 1.8730 \\ 0.1140 & 0.2128 & 0.5339 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.543054 \\ 0.283588 \\ 0.113018 \\ 0.060339 \end{pmatrix} = 0.986183 \cdot \begin{pmatrix} 0.550663 \\ 0.287561 \\ 0.114602 \\ 0.061185 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9149 & 4.8050 & 9 \\ 0.5222 & 1 & 2.5092 & 4.6999 \\ 0.2081 & 0.3985 & 1 & 1.8730 \\ 1/9 & 0.2128 & 0.5339 & 1 \end{pmatrix},$$

Example 0.443.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 9 \\ 1/2 & 1 & 4 & 3 \\ 1/5 & 1/4 & 1 & 1/2 \\ 1/9 & 1/3 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1406, \quad CR = 0.0530$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.560526 \\ 0.272149 \\ 0.072463 \\ 0.094862 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0596 & 7.7354 & 5.9088 \\ 0.4855 & 1 & 3.7557 & 2.8689 \\ 0.1293 & 0.2663 & 1 & 0.7639 \\ 0.1692 & 0.3486 & 1.3091 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.556015 \\ 0.278007 \\ 0.071879 \\ 0.094099 \end{pmatrix} = 0.991951 \cdot \begin{pmatrix} 0.560526 \\ 0.280263 \\ 0.072463 \\ 0.094862 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 7.7354 & 5.9088 \\ 1/2 & 1 & 3.8677 & 2.9544 \\ 0.1293 & 0.2586 & 1 & 0.7639 \\ 0.1692 & 0.3385 & 1.3091 & 1 \end{pmatrix},$$

Example 0.444.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 9 \\ 1/2 & 1 & 5 & 3 \\ 1/5 & 1/5 & 1 & 3 \\ 1/9 & 1/3 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.525945 \\ 0.305270 \\ 0.108001 \\ 0.060784 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7229 & 4.8698 & 8.6526 \\ 0.5804 & 1 & 2.8266 & 5.0222 \\ 0.2053 & 0.3538 & 1 & 1.7768 \\ 0.1156 & 0.1991 & 0.5628 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.532517 \\ 0.301038 \\ 0.106503 \\ 0.059942 \end{pmatrix} = 0.986136 \cdot \begin{pmatrix} 0.540004 \\ 0.305270 \\ 0.108001 \\ 0.060784 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7689 & 5 & 8.8839 \\ 0.5653 & 1 & 2.8266 & 5.0222 \\ 1/5 & 0.3538 & 1 & 1.7768 \\ 0.1126 & 0.1991 & 0.5628 & 1 \end{pmatrix},$$

Example 0.445.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 9 \\ 1/2 & 1 & 5 & 3 \\ 1/5 & 1/5 & 1 & 1/3 \\ 1/9 & 1/3 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2508, \quad CR = 0.0946$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.555864 \\ 0.277462 \\ 0.062003 \\ 0.104671 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0034 & 8.9652 & 5.3106 \\ 0.4992 & 1 & 4.4750 & 2.6508 \\ 0.1115 & 0.2235 & 1 & 0.5924 \\ 0.1883 & 0.3772 & 1.6882 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.555603 \\ 0.277802 \\ 0.061974 \\ 0.104622 \end{pmatrix} = 0.999529 \cdot \begin{pmatrix} 0.555864 \\ 0.277933 \\ 0.062003 \\ 0.104671 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 8.9651 & 5.3106 \\ 1/2 & 1 & 4.4826 & 2.6553 \\ 0.1115 & 0.2231 & 1 & 0.5924 \\ 0.1883 & 0.3766 & 1.6882 & 1 \end{pmatrix},$$

Example 0.446.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/2 \\ 1/2 & 1 & 4 & 1/6 \\ 1/5 & 1/4 & 1 & 1/6 \\ 2 & 6 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.263047 \\ 0.140952 \\ 0.056173 \\ 0.539828 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8662 & 4.6828 & 0.4873 \\ 0.5358 & 1 & 2.5092 & 0.2611 \\ 0.2135 & 0.3985 & 1 & 0.1041 \\ 2.0522 & 3.8299 & 9.6100 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.268073 \\ 0.139991 \\ 0.055790 \\ 0.536146 \end{pmatrix} = 0.993183 \cdot \begin{pmatrix} 0.269913 \\ 0.140952 \\ 0.056173 \\ 0.539828 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9149 & 4.8050 & 1/2 \\ 0.5222 & 1 & 2.5092 & 0.2611 \\ 0.2081 & 0.3985 & 1 & 0.1041 \\ 2 & 3.8299 & 9.6100 & 1 \end{pmatrix},$$

Example 0.447.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/2 \\ 1/2 & 1 & 4 & 1/6 \\ 1/5 & 1/4 & 1 & 1/7 \\ 2 & 6 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1301, \quad CR = 0.0490$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.260173 \\ 0.138155 \\ 0.052713 \\ 0.548958 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8832 & 4.9356 & 0.4739 \\ 0.5310 & 1 & 2.6209 & 0.2517 \\ 0.2026 & 0.3816 & 1 & 0.0960 \\ 2.1100 & 3.9735 & 10.4140 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.262676 \\ 0.137688 \\ 0.052535 \\ 0.547101 \end{pmatrix} = 0.996618 \cdot \begin{pmatrix} 0.263567 \\ 0.138155 \\ 0.052713 \\ 0.548958 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9078 & 5 & 0.4801 \\ 0.5242 & 1 & 2.6209 & 0.2517 \\ 1/5 & 0.3816 & 1 & 0.0960 \\ 2.0828 & 3.9735 & 10.4140 & 1 \end{pmatrix},$$

Example 0.448.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/2 \\ 1/2 & 1 & 4 & 1/7 \\ 1/5 & 1/4 & 1 & 1/6 \\ 2 & 7 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2057, \quad CR = 0.0776$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.256117 \\ 0.133627 \\ 0.055255 \\ 0.555001 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9167 & 4.6352 & 0.4615 \\ 0.5217 & 1 & 2.4184 & 0.2408 \\ 0.2157 & 0.4135 & 1 & 0.0996 \\ 2.1670 & 4.1534 & 10.0443 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.264310 \\ 0.132155 \\ 0.054647 \\ 0.548888 \end{pmatrix} = 0.988986 \cdot \begin{pmatrix} 0.267254 \\ 0.133627 \\ 0.055255 \\ 0.555001 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 4.8367 & 0.4815 \\ 1/2 & 1 & 2.4184 & 0.2408 \\ 0.2068 & 0.4135 & 1 & 0.0996 \\ 2.0767 & 4.1534 & 10.0443 & 1 \end{pmatrix},$$

Example 0.449.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/2 \\ 1/2 & 1 & 4 & 1/7 \\ 1/5 & 1/4 & 1 & 1/7 \\ 2 & 7 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1665, \quad CR = 0.0628$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.253465 \\ 0.130874 \\ 0.051781 \\ 0.563879 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9367 & 4.8949 & 0.4495 \\ 0.5163 & 1 & 2.5274 & 0.2321 \\ 0.2043 & 0.3957 & 1 & 0.0918 \\ 2.2247 & 4.3085 & 10.8896 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.257506 \\ 0.130166 \\ 0.051501 \\ 0.560827 \end{pmatrix} = 0.994586 \cdot \begin{pmatrix} 0.258908 \\ 0.130874 \\ 0.051781 \\ 0.563879 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9783 & 5 & 0.4592 \\ 0.5055 & 1 & 2.5274 & 0.2321 \\ 1/5 & 0.3957 & 1 & 0.0918 \\ 2.1779 & 4.3086 & 10.8896 & 1 \end{pmatrix},$$

Example 0.450.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/2 \\ 1/2 & 1 & 4 & 1/8 \\ 1/5 & 1/4 & 1 & 1/6 \\ 2 & 8 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.249818 \\ 0.127389 \\ 0.054388 \\ 0.568405 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9611 & 4.5933 & 0.4395 \\ 0.5099 & 1 & 2.3422 & 0.2241 \\ 0.2177 & 0.4269 & 1 & 0.0957 \\ 2.2753 & 4.4620 & 10.4510 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.253520 \\ 0.126760 \\ 0.054119 \\ 0.565600 \end{pmatrix} = 0.995063 \cdot \begin{pmatrix} 0.254778 \\ 0.127389 \\ 0.054388 \\ 0.568405 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 4.6845 & 0.4482 \\ 1/2 & 1 & 2.3422 & 0.2241 \\ 0.2135 & 0.4269 & 1 & 0.0957 \\ 2.2310 & 4.4620 & 10.4510 & 1 \end{pmatrix},$$

Example 0.451.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/2 \\ 1/2 & 1 & 4 & 1/8 \\ 1/5 & 1/4 & 1 & 1/7 \\ 2 & 8 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2035, \quad CR = 0.0767$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.247362 \\ 0.124687 \\ 0.050906 \\ 0.577044 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9839 & 4.8592 & 0.4287 \\ 0.5041 & 1 & 2.4493 & 0.2161 \\ 0.2058 & 0.4083 & 1 & 0.0882 \\ 2.3328 & 4.6279 & 11.3354 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.248874 \\ 0.124437 \\ 0.050804 \\ 0.575885 \end{pmatrix} = 0.997994 \cdot \begin{pmatrix} 0.249374 \\ 0.124687 \\ 0.050906 \\ 0.577044 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 4.8987 & 0.4322 \\ 1/2 & 1 & 2.4493 & 0.2161 \\ 0.2041 & 0.4083 & 1 & 0.0882 \\ 2.3140 & 4.6279 & 11.3354 & 1 \end{pmatrix},$$

Example 0.452.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/2 \\ 1/2 & 1 & 5 & 1/6 \\ 1/5 & 1/5 & 1 & 1/6 \\ 2 & 6 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.258661 \\ 0.150133 \\ 0.053115 \\ 0.538091 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7229 & 4.8698 & 0.4807 \\ 0.5804 & 1 & 2.8266 & 0.2790 \\ 0.2053 & 0.3538 & 1 & 0.0987 \\ 2.0803 & 3.5841 & 10.1307 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.263752 \\ 0.149102 \\ 0.052750 \\ 0.534396 \end{pmatrix} = 0.993133 \cdot \begin{pmatrix} 0.265576 \\ 0.150133 \\ 0.053115 \\ 0.538091 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7689 & 5 & 0.4936 \\ 0.5653 & 1 & 2.8266 & 0.2790 \\ 1/5 & 0.3538 & 1 & 0.0987 \\ 2.0261 & 3.5841 & 10.1307 & 1 \end{pmatrix},$$

Example 0.453.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/2 \\ 1/2 & 1 & 1/2 & 1/7 \\ 1/5 & 2 & 1 & 1/6 \\ 2 & 7 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2251, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.284402 \\ 0.082830 \\ 0.096706 \\ \mathbf{0.536063} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 3.4336 & 2.9409 & \mathbf{0.5305} \\ 0.2912 & 1 & 0.8565 & \mathbf{0.1545} \\ 0.3400 & 1.1675 & 1 & \mathbf{0.1804} \\ \mathbf{1.8849} & \mathbf{6.4718} & \mathbf{5.5432} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.275385 \\ 0.080204 \\ 0.093640 \\ 0.550771 \end{pmatrix} = 0.968296 \cdot \begin{pmatrix} 0.284402 \\ 0.082830 \\ 0.096706 \\ \mathbf{0.568804} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 3.4336 & 2.9409 & \mathbf{1/2} \\ 0.2912 & 1 & 0.8565 & \mathbf{0.1456} \\ 0.3400 & 1.1675 & 1 & \mathbf{0.1700} \\ \mathbf{2} & \mathbf{6.8671} & \mathbf{5.8818} & 1 \end{pmatrix},$$

Example 0.454.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/2 \\ 1/2 & 1 & 1/2 & 1/7 \\ 1/5 & 2 & 1 & 1/7 \\ 2 & 7 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2287, \quad CR = 0.0862$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.277948 \\ 0.081561 \\ 0.092008 \\ 0.548483 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 3.4079 & 3.0209 & 0.5068 \\ 0.2934 & 1 & 0.8864 & 0.1487 \\ 0.3310 & 1.1281 & 1 & 0.1678 \\ 1.9733 & 6.7249 & 5.9612 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.275903 \\ 0.080960 \\ 0.091331 \\ 0.551805 \end{pmatrix} = 0.992643 \cdot \begin{pmatrix} 0.277948 \\ 0.081561 \\ 0.092008 \\ 0.555895 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 3.4079 & 3.0209 & 1/2 \\ 0.2934 & 1 & 0.8864 & 0.1467 \\ 0.3310 & 1.1281 & 1 & 0.1655 \\ 2 & 6.8157 & 6.0418 & 1 \end{pmatrix},$$

Example 0.455.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/2 \\ 1/2 & 1 & 1/2 & 1/8 \\ 1/5 & 2 & 1 & 1/6 \\ 2 & 8 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.280247 \\ 0.079214 \\ 0.094636 \\ \mathbf{0.545902} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 3.5379 & 2.9613 & \mathbf{0.5134} \\ 0.2827 & 1 & 0.8370 & \mathbf{0.1451} \\ 0.3377 & 1.1947 & 1 & \mathbf{0.1734} \\ \mathbf{1.9479} & \mathbf{6.8915} & \mathbf{5.7684} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.276217 \\ 0.078074 \\ 0.093275 \\ 0.552433 \end{pmatrix} = 0.985618 \cdot \begin{pmatrix} 0.280247 \\ 0.079214 \\ 0.094636 \\ \mathbf{0.560494} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 3.5379 & 2.9613 & \mathbf{1/2} \\ 0.2827 & 1 & 0.8370 & \mathbf{0.1413} \\ 0.3377 & 1.1947 & 1 & \mathbf{0.1688} \\ \mathbf{2} & \mathbf{7.0757} & \mathbf{5.9226} & 1 \end{pmatrix},$$

Example 0.456.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/3 \\ 1/2 & 1 & 2 & 1/5 \\ 1/5 & 1/2 & 1 & 1/8 \\ 3 & 5 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0332, \quad CR = 0.0125$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.238888 \\ 0.116947 \\ 0.059139 \\ 0.585026 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0427 & 4.0395 & 0.4083 \\ 0.4895 & 1 & 1.9775 & 0.1999 \\ 0.2476 & 0.5057 & 1 & 0.1011 \\ 2.4490 & 5.0025 & 9.8925 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.238874 \\ 0.116999 \\ 0.059135 \\ 0.584992 \end{pmatrix} = 0.999942 \cdot \begin{pmatrix} 0.238888 \\ 0.117006 \\ 0.059139 \\ 0.585026 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0417 & 4.0395 & 0.4083 \\ 0.4898 & 1 & 1.9785 & 1/5 \\ 0.2476 & 0.5054 & 1 & 0.1011 \\ 2.4490 & 5 & 9.8925 & 1 \end{pmatrix},$$

Example 0.457.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/3 \\ 1/2 & 1 & 4 & 1/9 \\ 1/5 & 1/4 & 1 & 1/8 \\ 3 & 9 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1972, \quad CR = 0.0744$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.209348 \\ 0.112976 \\ 0.046603 \\ 0.631073 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8530 & 4.4922 & 0.3317 \\ 0.5397 & 1 & 2.4242 & 0.1790 \\ 0.2226 & 0.4125 & 1 & 0.0738 \\ 3.0145 & 5.5859 & 13.5415 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.210145 \\ 0.112862 \\ 0.046556 \\ 0.630437 \end{pmatrix} = 0.998991 \cdot \begin{pmatrix} 0.210358 \\ 0.112976 \\ 0.046603 \\ 0.631073 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.8620 & 4.5138 & 1/3 \\ 0.5371 & 1 & 2.4242 & 0.1790 \\ 0.2215 & 0.4125 & 1 & 0.0738 \\ 3 & 5.5859 & 13.5415 & 1 \end{pmatrix},$$

Example 0.458.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/3 \\ 1/2 & 1 & 4 & 1/9 \\ 1/5 & 1/4 & 1 & 1/9 \\ 3 & 9 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.207137 \\ 0.110993 \\ 0.044234 \\ 0.637635 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8662 & 4.6828 & 0.3249 \\ 0.5358 & 1 & 2.5092 & 0.1741 \\ 0.2135 & 0.3985 & 1 & 0.0694 \\ 3.0783 & 5.7448 & 14.4151 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.211402 \\ 0.110396 \\ 0.043996 \\ 0.634206 \end{pmatrix} = 0.994620 \cdot \begin{pmatrix} 0.212546 \\ 0.110993 \\ 0.044234 \\ 0.637635 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9149 & 4.8050 & 1/3 \\ 0.5222 & 1 & 2.5092 & 0.1741 \\ 0.2081 & 0.3985 & 1 & 0.0694 \\ 3 & 5.7448 & 14.4151 & 1 \end{pmatrix},$$

Example 0.459.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/3 \\ 1/2 & 1 & 5 & 1/9 \\ 1/5 & 1/5 & 1 & 1/8 \\ 3 & 9 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2637, \quad CR = 0.0994$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.205743 \\ 0.120531 \\ 0.044109 \\ 0.629618 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7070 & 4.6644 & 0.3268 \\ 0.5858 & 1 & 2.7326 & 0.1914 \\ 0.2144 & 0.3660 & 1 & 0.0701 \\ 3.0602 & 5.2237 & 14.2742 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.209009 \\ 0.120035 \\ 0.043927 \\ 0.627028 \end{pmatrix} = 0.995888 \cdot \begin{pmatrix} 0.209872 \\ 0.120531 \\ 0.044109 \\ 0.629618 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7412 & 4.7581 & 1/3 \\ 0.5743 & 1 & 2.7326 & 0.1914 \\ 0.2102 & 0.3660 & 1 & 0.0701 \\ 3 & 5.2237 & 14.2742 & 1 \end{pmatrix},$$

Example 0.460.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/3 \\ 1/2 & 1 & 5 & 1/9 \\ 1/5 & 1/5 & 1 & 1/9 \\ 3 & 9 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.203823 \\ 0.118304 \\ 0.041854 \\ 0.636019 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7229 & 4.8698 & 0.3205 \\ 0.5804 & 1 & 2.8266 & 0.1860 \\ 0.2053 & 0.3538 & 1 & 0.0658 \\ 3.1204 & 5.3761 & 15.1960 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.208138 \\ 0.117663 \\ 0.041627 \\ 0.632572 \end{pmatrix} = 0.994583 \cdot \begin{pmatrix} 0.209271 \\ 0.118304 \\ 0.041854 \\ 0.636019 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7689 & 5 & 0.3290 \\ 0.5653 & 1 & 2.8266 & 0.1860 \\ 1/5 & 0.3538 & 1 & 0.0658 \\ 3.0392 & 5.3761 & 15.1960 & 1 \end{pmatrix},$$

Example 0.461.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/3 \\ 1/2 & 1 & 1/2 & 1/9 \\ 1/5 & 2 & 1 & 1/8 \\ 3 & 9 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2267, \quad CR = 0.0855$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.233474 \\ 0.070006 \\ 0.081681 \\ \mathbf{0.614839} \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 3.3350 & 2.8584 & \mathbf{0.3797} \\ 0.2998 & 1 & 0.8571 & \mathbf{0.1139} \\ 0.3498 & 1.1668 & 1 & \mathbf{0.1328} \\ \mathbf{2.6334} & \mathbf{8.7826} & \mathbf{7.5274} & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.229974 \\ 0.068957 \\ 0.080456 \\ 0.620613 \end{pmatrix} = 0.985007 \cdot \begin{pmatrix} 0.233474 \\ 0.070006 \\ 0.081681 \\ \mathbf{0.630059} \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 3.3350 & 2.8584 & \mathbf{0.3706} \\ 0.2998 & 1 & 0.8571 & \mathbf{1/9} \\ 0.3498 & 1.1668 & 1 & \mathbf{0.1296} \\ \mathbf{2.6986} & \mathbf{9} & \mathbf{7.7137} & 1 \end{pmatrix},$$

Example 0.462.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 5 & 1/4 \\ 1/2 & 1 & 2 & 1/6 \\ 1/5 & 1/2 & 1 & 1/9 \\ 4 & 6 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.0539, \quad CR = 0.0203$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.207882 \\ 0.103840 \\ 0.053704 \\ 0.634574 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0020 & 3.8709 & 0.3276 \\ 0.4995 & 1 & 1.9336 & 0.1636 \\ 0.2583 & 0.5172 & 1 & 0.0846 \\ 3.0526 & 6.1111 & 11.8161 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.207861 \\ 0.103930 \\ 0.053699 \\ 0.634510 \end{pmatrix} = 0.999899 \cdot \begin{pmatrix} 0.207882 \\ 0.103941 \\ 0.053704 \\ 0.634574 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.8709 & 0.3276 \\ 1/2 & 1 & 1.9354 & 0.1638 \\ 0.2583 & 0.5167 & 1 & 0.0846 \\ 3.0526 & 6.1052 & 11.8162 & 1 \end{pmatrix},$$

Example 0.463.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 7 \\ 1/2 & 1 & 2 & 6 \\ 1/6 & 1/2 & 1 & 4 \\ 1/7 & 1/6 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1317, \quad CR = 0.0496$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.544441 \\ 0.269597 \\ 0.135927 \\ 0.050035 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0195 & 4.0054 & 10.8812 \\ 0.4952 & 1 & 1.9834 & 5.3882 \\ 0.2497 & 0.5042 & 1 & 2.7167 \\ 0.0919 & 0.1856 & 0.3681 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.543214 \\ 0.271242 \\ 0.135621 \\ 0.049922 \end{pmatrix} = 0.997747 \cdot \begin{pmatrix} 0.544441 \\ 0.271855 \\ 0.135927 \\ 0.050035 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0027 & 4.0054 & 10.8812 \\ 0.4993 & 1 & 2 & 5.4333 \\ 0.2497 & 1/2 & 1 & 2.7167 \\ 0.0919 & 0.1841 & 0.3681 & 1 \end{pmatrix},$$

Example 0.464.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 7 \\ 1/2 & 1 & 2 & 6 \\ 1/6 & 1/2 & 1 & 5 \\ 1/7 & 1/6 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1832, \quad CR = 0.0691$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.542982 \\ 0.265250 \\ 0.144437 \\ 0.047331 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0471 & 3.7593 & 11.4721 \\ 0.4885 & 1 & 1.8364 & 5.6042 \\ 0.2660 & 0.5445 & 1 & 3.0517 \\ 0.0872 & 0.1784 & 0.3277 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.539614 \\ 0.269807 \\ 0.143541 \\ 0.047037 \end{pmatrix} = 0.993797 \cdot \begin{pmatrix} 0.542982 \\ 0.271491 \\ 0.144437 \\ 0.047331 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.7593 & 11.4721 \\ 1/2 & 1 & 1.8797 & 5.7360 \\ 0.2660 & 0.5320 & 1 & 3.0516 \\ 0.0872 & 0.1743 & 0.3277 & 1 \end{pmatrix},$$

Example 0.465.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 7 \\ 1/2 & 1 & 2 & 6 \\ 1/6 & 1/2 & 1 & 6 \\ 1/7 & 1/6 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2359, \quad CR = 0.0890$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.541308 \\ 0.261427 \\ 0.152072 \\ 0.045194 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0706 & 3.5596 & 11.9774 \\ 0.4830 & 1 & 1.7191 & 5.7845 \\ 0.2809 & 0.5817 & 1 & 3.3648 \\ 0.0835 & 0.1729 & 0.2972 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.536359 \\ 0.268179 \\ 0.150681 \\ 0.044781 \end{pmatrix} = 0.990857 \cdot \begin{pmatrix} 0.541308 \\ 0.270654 \\ 0.152072 \\ 0.045194 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.5596 & 11.9774 \\ 1/2 & 1 & 1.7798 & 5.9887 \\ 0.2809 & 0.5619 & 1 & 3.3648 \\ 0.0835 & 0.1670 & 0.2972 & 1 \end{pmatrix},$$

Example 0.466.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 8 \\ 1/2 & 1 & 2 & 6 \\ 1/6 & 1/2 & 1 & 4 \\ 1/8 & 1/6 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.552337 \\ 0.266669 \\ 0.133654 \\ 0.047339 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0712 & 4.1326 & 11.6676 \\ 0.4828 & 1 & 1.9952 & 5.6331 \\ 0.2420 & 0.5012 & 1 & 2.8233 \\ 0.0857 & 0.1775 & 0.3542 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.551984 \\ 0.267138 \\ 0.133569 \\ 0.047309 \end{pmatrix} = 0.999361 \cdot \begin{pmatrix} 0.552337 \\ 0.267309 \\ 0.133654 \\ 0.047339 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0663 & 4.1326 & 11.6676 \\ 0.4840 & 1 & 2 & 5.6467 \\ 0.2420 & 1/2 & 1 & 2.8233 \\ 0.0857 & 0.1771 & 0.3542 & 1 \end{pmatrix},$$

Example 0.467.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 8 \\ 1/2 & 1 & 2 & 6 \\ 1/6 & 1/2 & 1 & 5 \\ 1/8 & 1/6 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1502, \quad CR = 0.0566$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.550660 \\ 0.262715 \\ 0.141869 \\ 0.044756 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0960 & 3.8815 & 12.3035 \\ 0.4771 & 1 & 1.8518 & 5.8699 \\ 0.2576 & 0.5400 & 1 & 3.1698 \\ 0.0813 & 0.1704 & 0.3155 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.547472 \\ 0.266984 \\ 0.141047 \\ 0.044497 \end{pmatrix} = 0.994210 \cdot \begin{pmatrix} 0.550660 \\ 0.268539 \\ 0.141869 \\ 0.044756 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0506 & 3.8815 & 12.3035 \\ 0.4877 & 1 & 1.8929 & 6 \\ 0.2576 & 0.5283 & 1 & 3.1698 \\ 0.0813 & 1/6 & 0.3155 & 1 \end{pmatrix},$$

Example 0.468.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 8 \\ 1/2 & 1 & 2 & 7 \\ 1/6 & 1/2 & 1 & 5 \\ 1/8 & 1/7 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1512, \quad CR = 0.0570$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.546721 \\ 0.270632 \\ 0.139817 \\ 0.042830 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0202 & 3.9103 & 12.7648 \\ 0.4950 & 1 & 1.9356 & 6.3187 \\ 0.2557 & 0.5166 & 1 & 3.2645 \\ 0.0783 & 0.1583 & 0.3063 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.545233 \\ 0.272617 \\ 0.139437 \\ 0.042714 \end{pmatrix} = 0.997278 \cdot \begin{pmatrix} 0.546721 \\ 0.273361 \\ 0.139817 \\ 0.042830 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.9102 & 12.7648 \\ 1/2 & 1 & 1.9551 & 6.3824 \\ 0.2557 & 0.5115 & 1 & 3.2645 \\ 0.0783 & 0.1567 & 0.3063 & 1 \end{pmatrix},$$

Example 0.469.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 8 \\ 1/2 & 1 & 2 & 7 \\ 1/6 & 1/2 & 1 & 6 \\ 1/8 & 1/7 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1964, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.545259 \\ 0.266855 \\ 0.146973 \\ 0.040913 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0433 & 3.7099 & 13.3271 \\ 0.4894 & 1 & 1.8157 & 6.5224 \\ 0.2695 & 0.5508 & 1 & 3.5923 \\ 0.0750 & 0.1533 & 0.2784 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.542128 \\ 0.271064 \\ 0.146130 \\ 0.040678 \end{pmatrix} = 0.994258 \cdot \begin{pmatrix} 0.545259 \\ 0.272629 \\ 0.146973 \\ 0.040913 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.7099 & 13.3271 \\ 1/2 & 1 & 1.8550 & 6.6636 \\ 0.2695 & 0.5391 & 1 & 3.5923 \\ 0.0750 & 0.1501 & 0.2784 & 1 \end{pmatrix},$$

Example 0.470.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 8 \\ 1/2 & 1 & 2 & 7 \\ 1/6 & 1/2 & 1 & 7 \\ 1/8 & 1/7 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2421, \quad CR = 0.0913$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.543683 \\ 0.263472 \\ 0.153509 \\ 0.039335 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0635 & 3.5417 & 13.8218 \\ 0.4846 & 1 & 1.7163 & 6.6981 \\ 0.2824 & 0.5826 & 1 & 3.9026 \\ 0.0723 & 0.1493 & 0.2562 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.539171 \\ 0.269585 \\ 0.152236 \\ 0.039009 \end{pmatrix} = 0.991700 \cdot \begin{pmatrix} 0.543683 \\ 0.271841 \\ 0.153509 \\ 0.039335 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.5417 & 13.8218 \\ 1/2 & 1 & 1.7708 & 6.9109 \\ 0.2824 & 0.5647 & 1 & 3.9026 \\ 0.0723 & 0.1447 & 0.2562 & 1 \end{pmatrix},$$

Example 0.471.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 8 \\ 1/2 & 1 & 5 & 3 \\ 1/6 & 1/5 & 1 & 2 \\ 1/8 & 1/3 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1252, \quad CR = 0.0472$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.541541 \\ 0.298664 \\ 0.091621 \\ 0.068174 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8132 & 5.9107 & 7.9436 \\ 0.5515 & 1 & 3.2598 & 4.3809 \\ 0.1692 & 0.3068 & 1 & 1.3439 \\ 0.1259 & 0.2283 & 0.7441 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.543298 \\ 0.297520 \\ 0.091270 \\ 0.067912 \end{pmatrix} = 0.996169 \cdot \begin{pmatrix} 0.545387 \\ 0.298664 \\ 0.091621 \\ 0.068174 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.8261 & 5.9527 & 8 \\ 0.5476 & 1 & 3.2598 & 4.3810 \\ 0.1680 & 0.3068 & 1 & 1.3439 \\ 1/8 & 0.2283 & 0.7441 & 1 \end{pmatrix},$$

Example 0.472.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 9 \\ 1/2 & 1 & 2 & 7 \\ 1/6 & 1/2 & 1 & 5 \\ 1/9 & 1/7 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1239, \quad CR = 0.0467$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.553492 \\ 0.268071 \\ 0.137677 \\ 0.040760 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0647 & 4.0202 & 13.5792 \\ 0.4843 & 1 & 1.9471 & 6.5768 \\ 0.2487 & 0.5136 & 1 & 3.3777 \\ 0.0736 & 0.1521 & 0.2961 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.549491 \\ 0.273363 \\ 0.136681 \\ 0.040466 \end{pmatrix} = 0.992770 \cdot \begin{pmatrix} 0.553492 \\ 0.275354 \\ 0.137677 \\ 0.040760 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0101 & 4.0202 & 13.5792 \\ 0.4975 & 1 & 2 & 6.7554 \\ 0.2487 & 1/2 & 1 & 3.3777 \\ 0.0736 & 0.1480 & 0.2961 & 1 \end{pmatrix},$$

Example 0.473.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 9 \\ 1/2 & 1 & 2 & 7 \\ 1/6 & 1/2 & 1 & 6 \\ 1/9 & 1/7 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1658, \quad CR = 0.0625$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.551881 \\ 0.264585 \\ 0.144611 \\ 0.038922 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0858 & 3.8163 & 14.1790 \\ 0.4794 & 1 & 1.8296 & 6.7978 \\ 0.2620 & 0.5466 & 1 & 3.7154 \\ 0.0705 & 0.1471 & 0.2692 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.547571 \\ 0.270329 \\ 0.143482 \\ 0.038618 \end{pmatrix} = 0.992189 \cdot \begin{pmatrix} 0.551881 \\ 0.272457 \\ 0.144611 \\ 0.038922 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0256 & 3.8163 & 14.1790 \\ 0.4937 & 1 & 1.8841 & 7 \\ 0.2620 & 0.5308 & 1 & 3.7154 \\ 0.0705 & 1/7 & 0.2692 & 1 \end{pmatrix},$$

Example 0.474.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 9 \\ 1/2 & 1 & 2 & 7 \\ 1/6 & 1/2 & 1 & 7 \\ 1/9 & 1/7 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2086, \quad CR = 0.0786$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.550187 \\ 0.261452 \\ 0.150947 \\ 0.037414 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.1044 & 3.6449 & 14.7053 \\ 0.4752 & 1 & 1.7321 & 6.9880 \\ 0.2744 & 0.5773 & 1 & 4.0345 \\ 0.0680 & 0.1431 & 0.2479 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.549941 \\ 0.261782 \\ 0.150879 \\ 0.037398 \end{pmatrix} = 0.999553 \cdot \begin{pmatrix} 0.550187 \\ 0.261899 \\ 0.150947 \\ 0.037414 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.1008 & 3.6449 & 14.7053 \\ 0.4760 & 1 & 1.7350 & 7 \\ 0.2744 & 0.5764 & 1 & 4.0345 \\ 0.0680 & 1/7 & 0.2479 & 1 \end{pmatrix},$$

Example 0.475.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 9 \\ 1/2 & 1 & 2 & 8 \\ 1/6 & 1/2 & 1 & 6 \\ 1/9 & 1/8 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.548389 \\ 0.271415 \\ 0.142726 \\ 0.037470 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0205 & 3.8423 & 14.6352 \\ 0.4949 & 1 & 1.9017 & 7.2434 \\ 0.2603 & 0.5259 & 1 & 3.8090 \\ 0.0683 & 0.1381 & 0.2625 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.546869 \\ 0.273434 \\ 0.142330 \\ 0.037367 \end{pmatrix} = 0.997229 \cdot \begin{pmatrix} 0.548389 \\ 0.274194 \\ 0.142726 \\ 0.037470 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.8423 & 14.6352 \\ 1/2 & 1 & 1.9211 & 7.3176 \\ 0.2603 & 0.5205 & 1 & 3.8090 \\ 0.0683 & 0.1367 & 0.2625 & 1 \end{pmatrix},$$

Example 0.476.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 9 \\ 1/2 & 1 & 2 & 8 \\ 1/6 & 1/2 & 1 & 7 \\ 1/9 & 1/8 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2066, \quad CR = 0.0779$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.546981 \\ 0.268077 \\ 0.148904 \\ 0.036038 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0404 & 3.6734 & 15.1779 \\ 0.4901 & 1 & 1.8003 & 7.4387 \\ 0.2722 & 0.5555 & 1 & 4.1319 \\ 0.0659 & 0.1344 & 0.2420 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.544036 \\ 0.272018 \\ 0.148102 \\ 0.035844 \end{pmatrix} = 0.994616 \cdot \begin{pmatrix} 0.546981 \\ 0.273490 \\ 0.148904 \\ 0.036038 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.6734 & 15.1779 \\ 1/2 & 1 & 1.8367 & 7.5890 \\ 0.2722 & 0.5445 & 1 & 4.1319 \\ 0.0659 & 0.1318 & 0.2420 & 1 \end{pmatrix},$$

Example 0.477.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 9 \\ 1/2 & 1 & 2 & 8 \\ 1/6 & 1/2 & 1 & 8 \\ 1/9 & 1/8 & 1/8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.545510 \\ 0.265047 \\ 0.154619 \\ 0.034824 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0582 & 3.5281 & 15.6648 \\ 0.4859 & 1 & 1.7142 & 7.6110 \\ 0.2834 & 0.5834 & 1 & 4.4400 \\ 0.0638 & 0.1314 & 0.2252 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.541337 \\ 0.270669 \\ 0.153436 \\ 0.034558 \end{pmatrix} = 0.992350 \cdot \begin{pmatrix} 0.545510 \\ 0.272756 \\ 0.154619 \\ 0.034824 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.5281 & 15.6648 \\ 1/2 & 1 & 1.7641 & 7.8324 \\ 0.2834 & 0.5669 & 1 & 4.4400 \\ 0.0638 & 0.1277 & 0.2252 & 1 \end{pmatrix},$$

Example 0.478.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 9 \\ 1/2 & 1 & 2 & 9 \\ 1/6 & 1/2 & 1 & 8 \\ 1/9 & 1/9 & 1/8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.542552 \\ 0.271056 \\ 0.152672 \\ 0.033720 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0016 & 3.5537 & 16.0901 \\ 0.4996 & 1 & 1.7754 & 8.0385 \\ 0.2814 & 0.5632 & 1 & 4.5277 \\ 0.0622 & 0.1244 & 0.2209 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.542433 \\ 0.271217 \\ 0.152638 \\ 0.033712 \end{pmatrix} = 0.999780 \cdot \begin{pmatrix} 0.542552 \\ 0.271277 \\ 0.152672 \\ 0.033720 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.5537 & 16.0901 \\ 1/2 & 1 & 1.7769 & 8.0450 \\ 0.2814 & 0.5628 & 1 & 4.5277 \\ 0.0622 & 0.1243 & 0.2209 & 1 \end{pmatrix},$$

Example 0.479.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 9 \\ 1/2 & 1 & 4 & 3 \\ 1/6 & 1/4 & 1 & 1/2 \\ 1/9 & 1/3 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.571717 \\ \mathbf{0.268380} \\ 0.067256 \\ 0.092647 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{2.1302} & 8.5006 & 6.1709 \\ \mathbf{0.4694} & 1 & \mathbf{3.9904} & \mathbf{2.8968} \\ 0.1176 & \mathbf{0.2506} & 1 & 0.7259 \\ 0.1621 & \mathbf{0.3452} & 1.3775 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.571349 \\ 0.268851 \\ 0.067213 \\ 0.092587 \end{pmatrix} = 0.999357 \cdot \begin{pmatrix} 0.571717 \\ \mathbf{0.269024} \\ 0.067256 \\ 0.092647 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{2.1252} & 8.5006 & 6.1709 \\ \mathbf{0.4706} & 1 & \mathbf{4} & \mathbf{2.9038} \\ 0.1176 & \mathbf{1/4} & 1 & 0.7259 \\ 0.1621 & \mathbf{0.3444} & 1.3775 & 1 \end{pmatrix},$$

Example 0.480.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 9 \\ 1/2 & 1 & 5 & 3 \\ 1/6 & 1/5 & 1 & 1/3 \\ 1/9 & 1/3 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1966, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.566503 \\ 0.274088 \\ 0.057331 \\ 0.102078 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0669 & 9.8813 & 5.5497 \\ 0.4838 & 1 & 4.7808 & 2.6851 \\ 0.1012 & 0.2092 & 1 & 0.5616 \\ 0.1802 & 0.3724 & 1.7805 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.561359 \\ 0.280680 \\ 0.056810 \\ 0.101151 \end{pmatrix} = 0.990919 \cdot \begin{pmatrix} 0.566503 \\ 0.283252 \\ 0.057331 \\ 0.102078 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 9.8813 & 5.5497 \\ 1/2 & 1 & 4.9407 & 2.7749 \\ 0.1012 & 0.2024 & 1 & 0.5616 \\ 0.1802 & 0.3604 & 1.7805 & 1 \end{pmatrix},$$

Example 0.481.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/2 \\ 1/2 & 1 & 5 & 1/7 \\ 1/6 & 1/5 & 1 & 1/7 \\ 2 & 7 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2251, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.258121 \\ 0.136943 \\ 0.046565 \\ 0.558372 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8849 & 5.5432 & 0.4623 \\ 0.5305 & 1 & 2.9409 & 0.2453 \\ 0.1804 & 0.3400 & 1 & 0.0834 \\ 2.1632 & 4.0774 & 11.9912 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.269635 \\ 0.134817 \\ 0.045842 \\ 0.549705 \end{pmatrix} = 0.984478 \cdot \begin{pmatrix} 0.273887 \\ 0.136943 \\ 0.046565 \\ 0.558372 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 5.8818 & 0.4905 \\ 1/2 & 1 & 2.9409 & 0.2453 \\ 0.1700 & 0.3400 & 1 & 0.0834 \\ 2.0387 & 4.0774 & 11.9912 & 1 \end{pmatrix},$$

Example 0.482.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/2 \\ 1/2 & 1 & 5 & 1/7 \\ 1/6 & 1/5 & 1 & 1/8 \\ 2 & 7 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1888, \quad CR = 0.0712$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.255778 \\ 0.134415 \\ 0.043980 \\ 0.565827 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9029 & 5.8158 & 0.4520 \\ 0.5255 & 1 & 3.0563 & 0.2376 \\ 0.1719 & 0.3272 & 1 & 0.0777 \\ 2.2122 & 4.2096 & 12.8657 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.261757 \\ 0.133335 \\ 0.043626 \\ 0.561281 \end{pmatrix} = 0.991968 \cdot \begin{pmatrix} 0.263877 \\ 0.134415 \\ 0.043980 \\ 0.565827 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9632 & 6 & 0.4664 \\ 0.5094 & 1 & 3.0563 & 0.2376 \\ 1/6 & 0.3272 & 1 & 0.0777 \\ 2.1443 & 4.2096 & 12.8657 & 1 \end{pmatrix},$$

Example 0.483.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/2 \\ 1/2 & 1 & 5 & 1/8 \\ 1/6 & 1/5 & 1 & 1/8 \\ 2 & 8 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.249475 \\ 0.128072 \\ 0.043249 \\ 0.579204 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9479 & 5.7684 & 0.4307 \\ 0.5134 & 1 & 2.9613 & 0.2211 \\ 0.1734 & 0.3377 & 1 & 0.0747 \\ 2.3217 & 4.5225 & 13.3925 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.254447 \\ 0.127223 \\ 0.042962 \\ 0.575368 \end{pmatrix} = 0.993372 \cdot \begin{pmatrix} 0.256145 \\ 0.128072 \\ 0.043249 \\ 0.579204 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 5.9226 & 0.4422 \\ 1/2 & 1 & 2.9613 & 0.2211 \\ 0.1688 & 0.3377 & 1 & 0.0747 \\ 2.2612 & 4.5225 & 13.3925 & 1 \end{pmatrix},$$

Example 0.484.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/3 \\ 1/2 & 1 & 2 & 1/4 \\ 1/6 & 1/2 & 1 & 1/5 \\ 3 & 4 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1406, \quad CR = 0.0530$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.270097 \\ 0.129146 \\ 0.068773 \\ 0.531985 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0914 & 3.9274 & 0.5077 \\ 0.4781 & 1 & 1.8779 & 0.2428 \\ 0.2546 & 0.5325 & 1 & 0.1293 \\ 1.9696 & 4.1193 & 7.7354 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.269060 \\ 0.132486 \\ 0.068509 \\ 0.529945 \end{pmatrix} = 0.996163 \cdot \begin{pmatrix} 0.270097 \\ 0.132996 \\ 0.068773 \\ 0.531985 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0309 & 3.9274 & 0.5077 \\ 0.4924 & 1 & 1.9338 & 1/4 \\ 0.2546 & 0.5171 & 1 & 0.1293 \\ 1.9696 & 4 & 7.7354 & 1 \end{pmatrix},$$

Example 0.485.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/3 \\ 1/2 & 1 & 2 & 1/4 \\ 1/6 & 1/2 & 1 & 1/6 \\ 3 & 4 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.264427 \\ 0.127666 \\ 0.063986 \\ 0.543921 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0712 & 4.1326 & 0.4861 \\ 0.4828 & 1 & 1.9952 & 0.2347 \\ 0.2420 & 0.5012 & 1 & 0.1176 \\ 2.0570 & 4.2605 & 8.5006 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.264346 \\ 0.127933 \\ 0.063967 \\ 0.543754 \end{pmatrix} = 0.999694 \cdot \begin{pmatrix} 0.264427 \\ 0.127972 \\ 0.063986 \\ 0.543921 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0663 & 4.1326 & 0.4861 \\ 0.4840 & 1 & 2 & 0.2353 \\ 0.2420 & 1/2 & 1 & 0.1176 \\ 2.0570 & 4.2503 & 8.5006 & 1 \end{pmatrix},$$

Example 0.486.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/4 \\ 1/2 & 1 & 2 & 1/5 \\ 1/6 & 1/2 & 1 & 1/5 \\ 4 & 5 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2162, \quad CR = 0.0815$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.239860 \\ 0.114520 \\ 0.066260 \\ 0.579359 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0945 & 3.6200 & 0.4140 \\ 0.4774 & 1 & 1.7283 & 0.1977 \\ 0.2762 & 0.5786 & 1 & 0.1144 \\ 2.4154 & 5.0590 & 8.7437 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.239537 \\ 0.115715 \\ 0.066171 \\ 0.578577 \end{pmatrix} = 0.998652 \cdot \begin{pmatrix} 0.239860 \\ 0.115871 \\ 0.066260 \\ 0.579359 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0701 & 3.6200 & 0.4140 \\ 0.4831 & 1 & 1.7487 & 1/5 \\ 0.2762 & 0.5718 & 1 & 0.1144 \\ 2.4154 & 5 & 8.7437 & 1 \end{pmatrix},$$

Example 0.487.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/4 \\ 1/2 & 1 & 2 & 1/5 \\ 1/6 & 1/2 & 1 & 1/6 \\ 4 & 5 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.234409 \\ 0.113124 \\ 0.061333 \\ 0.591133 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0721 & 3.8219 & 0.3965 \\ 0.4826 & 1 & 1.8444 & 0.1914 \\ 0.2616 & 0.5422 & 1 & 0.1038 \\ 2.5218 & 5.2255 & 9.6381 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.233456 \\ 0.116728 \\ 0.061084 \\ 0.588732 \end{pmatrix} = 0.995934 \cdot \begin{pmatrix} 0.234409 \\ 0.117205 \\ 0.061333 \\ 0.591133 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.8219 & 0.3965 \\ 1/2 & 1 & 1.9109 & 0.1983 \\ 0.2617 & 0.5233 & 1 & 0.1038 \\ 2.5218 & 5.0436 & 9.6381 & 1 \end{pmatrix},$$

Example 0.488.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/4 \\ 1/2 & 1 & 2 & 1/5 \\ 1/6 & 1/2 & 1 & 1/7 \\ 4 & 5 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1301, \quad CR = 0.0490$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.229730 \\ 0.111849 \\ 0.057524 \\ 0.600896 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0539 & 3.9936 & 0.3823 \\ 0.4869 & 1 & 1.9444 & 0.1861 \\ 0.2504 & 0.5143 & 1 & 0.0957 \\ 2.6157 & 5.3724 & 10.4459 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.229040 \\ 0.114520 \\ 0.057352 \\ 0.599089 \end{pmatrix} = 0.996994 \cdot \begin{pmatrix} 0.229730 \\ 0.114865 \\ 0.057524 \\ 0.600896 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.9936 & 0.3823 \\ 1/2 & 1 & 1.9968 & 0.1912 \\ 0.2504 & 0.5008 & 1 & 0.0957 \\ 2.6157 & 5.2313 & 10.4459 & 1 \end{pmatrix},$$

Example 0.489.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/4 \\ 1/2 & 1 & 2 & 1/6 \\ 1/6 & 1/2 & 1 & 1/8 \\ 4 & 6 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.220467 \\ \mathbf{0.103493} \\ 0.053590 \\ 0.622450 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{2.1302} & 4.1140 & 0.3542 \\ \mathbf{0.4694} & 1 & \mathbf{1.9312} & \mathbf{0.1663} \\ 0.2431 & \mathbf{0.5178} & 1 & 0.0861 \\ 2.8233 & \mathbf{6.0144} & 11.6151 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.220412 \\ 0.103716 \\ 0.053577 \\ 0.622295 \end{pmatrix} = 0.999753 \cdot \begin{pmatrix} 0.220467 \\ \mathbf{0.103742} \\ 0.053590 \\ 0.622450 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{2.1251} & 4.1140 & 0.3542 \\ \mathbf{0.4706} & 1 & \mathbf{1.9358} & \mathbf{1/6} \\ 0.2431 & \mathbf{0.5166} & 1 & 0.0861 \\ 2.8233 & \mathbf{6} & 11.6150 & 1 \end{pmatrix},$$

Example 0.490.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/5 \\ 1/2 & 1 & 2 & 1/6 \\ 1/6 & 1/2 & 1 & 1/6 \\ 5 & 6 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.211819 \\ 0.101822 \\ 0.059100 \\ 0.627260 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0803 & 3.5841 & 0.3377 \\ 0.4807 & 1 & 1.7229 & 0.1623 \\ 0.2790 & 0.5804 & 1 & 0.0942 \\ 2.9613 & 6.1604 & 10.6136 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.211244 \\ 0.104260 \\ 0.058939 \\ 0.625557 \end{pmatrix} = 0.997285 \cdot \begin{pmatrix} 0.211819 \\ 0.104544 \\ 0.059100 \\ 0.627260 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0261 & 3.5841 & 0.3377 \\ 0.4936 & 1 & 1.7689 & 1/6 \\ 0.2790 & 0.5653 & 1 & 0.0942 \\ 2.9613 & 6 & 10.6136 & 1 \end{pmatrix},$$

Example 0.491.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/5 \\ 1/2 & 1 & 2 & 1/6 \\ 1/6 & 1/2 & 1 & 1/7 \\ 5 & 6 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1832, \quad CR = 0.0691$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.207344 \\ \mathbf{0.100616} \\ 0.055239 \\ 0.636802 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{2.0608} & 3.7536 & 0.3256 \\ \mathbf{0.4853} & 1 & \mathbf{1.8215} & \mathbf{0.1580} \\ 0.2664 & \mathbf{0.5490} & 1 & 0.0867 \\ 3.0712 & \mathbf{6.3290} & 11.5282 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.206712 \\ 0.103356 \\ 0.055070 \\ 0.634862 \end{pmatrix} = 0.996952 \cdot \begin{pmatrix} 0.207344 \\ \mathbf{0.103672} \\ 0.055239 \\ 0.636802 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{2} & 3.7536 & 0.3256 \\ \mathbf{1/2} & 1 & \mathbf{1.8768} & \mathbf{0.1628} \\ 0.2664 & \mathbf{0.5328} & 1 & 0.0867 \\ 3.0712 & \mathbf{6.1425} & 11.5282 & 1 \end{pmatrix},$$

Example 0.492.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/5 \\ 1/2 & 1 & 2 & 1/6 \\ 1/6 & 1/2 & 1 & 1/8 \\ 5 & 6 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1502, \quad CR = 0.0566$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.203447 \\ 0.099517 \\ 0.052148 \\ 0.644887 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0443 & 3.9013 & 0.3155 \\ 0.4892 & 1 & 1.9084 & 0.1543 \\ 0.2563 & 0.5240 & 1 & 0.0809 \\ 3.1698 & 6.4801 & 12.3664 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.203000 \\ 0.101500 \\ 0.052033 \\ 0.643467 \end{pmatrix} = 0.997801 \cdot \begin{pmatrix} 0.203447 \\ 0.101724 \\ 0.052148 \\ 0.644887 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.9013 & 0.3155 \\ 1/2 & 1 & 1.9507 & 0.1577 \\ 0.2563 & 0.5126 & 1 & 0.0809 \\ 3.1698 & 6.3396 & 12.3664 & 1 \end{pmatrix},$$

Example 0.493.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/5 \\ 1/2 & 1 & 2 & 1/6 \\ 1/6 & 1/2 & 1 & 1/9 \\ 5 & 6 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1252, \quad CR = 0.0472$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.199985 \\ 0.098504 \\ 0.049602 \\ 0.651909 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0302 & 4.0318 & 0.3068 \\ 0.4926 & 1 & 1.9859 & 0.1511 \\ 0.2480 & 0.5036 & 1 & 0.0761 \\ 3.2598 & 6.6181 & 13.1428 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.199845 \\ 0.099134 \\ 0.049567 \\ 0.651453 \end{pmatrix} = 0.999298 \cdot \begin{pmatrix} 0.199985 \\ 0.099204 \\ 0.049602 \\ 0.651909 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0159 & 4.0318 & 0.3068 \\ 0.4961 & 1 & 2 & 0.1522 \\ 0.2480 & 1/2 & 1 & 0.0761 \\ 3.2598 & 6.5714 & 13.1429 & 1 \end{pmatrix},$$

Example 0.494.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/5 \\ 1/2 & 1 & 2 & 1/7 \\ 1/6 & 1/2 & 1 & 1/9 \\ 5 & 7 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1239, \quad CR = 0.0467$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.195784 \\ 0.092923 \\ 0.048880 \\ 0.662413 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.1069 & 4.0054 & 0.2956 \\ 0.4746 & 1 & 1.9011 & 0.1403 \\ 0.2497 & 0.5260 & 1 & 0.0738 \\ 3.3834 & 7.1286 & 13.5520 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.195450 \\ 0.094469 \\ 0.048796 \\ 0.661284 \end{pmatrix} = 0.998293 \cdot \begin{pmatrix} 0.195784 \\ 0.094631 \\ 0.048880 \\ 0.662413 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0689 & 4.0054 & 0.2956 \\ 0.4833 & 1 & 1.9360 & 1/7 \\ 0.2497 & 0.5165 & 1 & 0.0738 \\ 3.3834 & 7 & 13.5520 & 1 \end{pmatrix},$$

Example 0.495.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/6 \\ 1/2 & 1 & 2 & 1/7 \\ 1/6 & 1/2 & 1 & 1/7 \\ 6 & 7 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2359, \quad CR = 0.0890$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.189735 \\ 0.091633 \\ 0.053303 \\ 0.665328 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0706 & 3.5596 & 0.2852 \\ 0.4830 & 1 & 1.7191 & 0.1377 \\ 0.2809 & 0.5817 & 1 & 0.0801 \\ 3.5066 & 7.2608 & 12.4820 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.189124 \\ 0.094562 \\ 0.053131 \\ 0.663183 \end{pmatrix} = 0.996778 \cdot \begin{pmatrix} 0.189735 \\ 0.094867 \\ 0.053303 \\ 0.665328 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.5596 & 0.2852 \\ 1/2 & 1 & 1.7798 & 0.1426 \\ 0.2809 & 0.5619 & 1 & 0.0801 \\ 3.5066 & 7.0132 & 12.4820 & 1 \end{pmatrix},$$

Example 0.496.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/6 \\ 1/2 & 1 & 2 & 1/7 \\ 1/6 & 1/2 & 1 & 1/8 \\ 6 & 7 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1964, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.186012 \\ 0.090593 \\ 0.050197 \\ 0.673198 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0533 & 3.7057 & 0.2763 \\ 0.4870 & 1 & 1.8048 & 0.1346 \\ 0.2699 & 0.5541 & 1 & 0.0746 \\ 3.6191 & 7.4310 & 13.4112 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.185564 \\ 0.092782 \\ 0.050076 \\ 0.671578 \end{pmatrix} = 0.997592 \cdot \begin{pmatrix} 0.186012 \\ 0.093006 \\ 0.050197 \\ 0.673198 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.7056 & 0.2763 \\ 1/2 & 1 & 1.8528 & 0.1382 \\ 0.2699 & 0.5397 & 1 & 0.0746 \\ 3.6191 & 7.2382 & 13.4112 & 1 \end{pmatrix},$$

Example 0.497.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/6 \\ 1/2 & 1 & 2 & 1/7 \\ 1/6 & 1/2 & 1 & 1/9 \\ 6 & 7 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1658, \quad CR = 0.0625$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.182729 \\ 0.089644 \\ 0.047644 \\ 0.679983 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0384 & 3.8353 & 0.2687 \\ 0.4906 & 1 & 1.8815 & 0.1318 \\ 0.2607 & 0.5315 & 1 & 0.0701 \\ 3.7213 & 7.5854 & 14.2722 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.182415 \\ 0.091208 \\ 0.047562 \\ 0.678815 \end{pmatrix} = 0.998280 \cdot \begin{pmatrix} 0.182729 \\ 0.091365 \\ 0.047644 \\ 0.679983 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.8353 & 0.2687 \\ 1/2 & 1 & 1.9177 & 0.1344 \\ 0.2607 & 0.5215 & 1 & 0.0701 \\ 3.7213 & 7.4425 & 14.2722 & 1 \end{pmatrix},$$

Example 0.498.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/6 \\ 1/2 & 1 & 2 & 1/8 \\ 1/6 & 1/2 & 1 & 1/9 \\ 6 & 8 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.179205 \\ 0.085196 \\ 0.047047 \\ 0.688551 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.1034 & 3.8090 & 0.2603 \\ 0.4754 & 1 & 1.8109 & 0.1237 \\ 0.2625 & 0.5522 & 1 & 0.0683 \\ 3.8422 & 8.0819 & 14.6352 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.179049 \\ 0.085994 \\ 0.047006 \\ 0.687951 \end{pmatrix} = 0.999128 \cdot \begin{pmatrix} 0.179205 \\ 0.086069 \\ 0.047047 \\ 0.688551 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0821 & 3.8090 & 0.2603 \\ 0.4803 & 1 & 1.8294 & 1/8 \\ 0.2625 & 0.5466 & 1 & 0.0683 \\ 3.8422 & 8 & 14.6352 & 1 \end{pmatrix},$$

Example 0.499.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/7 \\ 1/2 & 1 & 2 & 1/8 \\ 1/6 & 1/2 & 1 & 1/8 \\ 7 & 8 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2421, \quad CR = 0.0913$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.171865 \\ 0.083287 \\ 0.048526 \\ 0.696322 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0635 & 3.5417 & 0.2468 \\ 0.4846 & 1 & 1.7163 & 0.1196 \\ 0.2824 & 0.5826 & 1 & 0.0697 \\ 4.0516 & 8.3605 & 14.3494 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.171411 \\ 0.085706 \\ 0.048398 \\ 0.694485 \end{pmatrix} = 0.997360 \cdot \begin{pmatrix} 0.171865 \\ 0.085933 \\ 0.048526 \\ 0.696322 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.5417 & 0.2468 \\ 1/2 & 1 & 1.7708 & 0.1234 \\ 0.2824 & 0.5647 & 1 & 0.0697 \\ 4.0516 & 8.1031 & 14.3494 & 1 \end{pmatrix},$$

Example 0.500.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/7 \\ 1/2 & 1 & 2 & 1/8 \\ 1/6 & 1/2 & 1 & 1/9 \\ 7 & 8 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2066, \quad CR = 0.0779$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.168726 \\ 0.082386 \\ 0.045973 \\ 0.702915 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0480 & 3.6701 & 0.2400 \\ 0.4883 & 1 & 1.7920 & 0.1172 \\ 0.2725 & 0.5580 & 1 & 0.0654 \\ 4.1660 & 8.5320 & 15.2896 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.168393 \\ 0.084197 \\ 0.045883 \\ 0.701528 \end{pmatrix} = 0.998026 \cdot \begin{pmatrix} 0.168726 \\ 0.084363 \\ 0.045973 \\ 0.702915 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.6701 & 0.2400 \\ 1/2 & 1 & 1.8350 & 0.1200 \\ 0.2725 & 0.5449 & 1 & 0.0654 \\ 4.1660 & 8.3320 & 15.2896 & 1 \end{pmatrix},$$

Example 0.501.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/7 \\ 1/2 & 1 & 2 & 1/9 \\ 1/6 & 1/2 & 1 & 1/9 \\ 7 & 9 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2086, \quad CR = 0.0786$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.165735 \\ \mathbf{0.078758} \\ 0.045470 \\ 0.710037 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{2.1044} & 3.6449 & 0.2334 \\ \mathbf{0.4752} & 1 & \mathbf{1.7321} & \mathbf{0.1109} \\ 0.2744 & \mathbf{0.5773} & 1 & 0.0640 \\ 4.2842 & \mathbf{9.0154} & 15.6154 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.165713 \\ 0.078882 \\ 0.045464 \\ 0.709941 \end{pmatrix} = 0.999867 \cdot \begin{pmatrix} 0.165735 \\ \mathbf{0.078893} \\ 0.045470 \\ 0.710037 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{2.1008} & 3.6449 & 0.2334 \\ \mathbf{0.4760} & 1 & \mathbf{1.7350} & \mathbf{1/9} \\ 0.2744 & \mathbf{0.5764} & 1 & 0.0640 \\ 4.2842 & \mathbf{9} & 15.6154 & 1 \end{pmatrix},$$

Example 0.502.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/8 \\ 1/2 & 1 & 2 & 1/8 \\ 1/6 & 1/2 & 1 & 1/9 \\ 8 & 8 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.159852 \\ 0.079861 \\ 0.044981 \\ 0.715306 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0016 & 3.5537 & 0.2235 \\ 0.4996 & 1 & 1.7754 & 0.1116 \\ 0.2814 & 0.5632 & 1 & 0.0629 \\ 4.4748 & 8.9569 & 15.9022 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.159841 \\ 0.079921 \\ 0.044979 \\ 0.715260 \end{pmatrix} = 0.999934 \cdot \begin{pmatrix} 0.159852 \\ 0.079926 \\ 0.044981 \\ 0.715306 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.5537 & 0.2235 \\ 1/2 & 1 & 1.7769 & 0.1117 \\ 0.2814 & 0.5628 & 1 & 0.0629 \\ 4.4748 & 8.9496 & 15.9022 & 1 \end{pmatrix},$$

Example 0.503.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 6 & 1/8 \\ 1/2 & 1 & 2 & 1/9 \\ 1/6 & 1/2 & 1 & 1/9 \\ 8 & 9 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.157094 \\ 0.076327 \\ 0.044527 \\ 0.722052 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0582 & 3.5281 & 0.2176 \\ 0.4859 & 1 & 1.7142 & 0.1057 \\ 0.2834 & 0.5834 & 1 & 0.0617 \\ 4.5963 & 9.4599 & 16.2162 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.156746 \\ 0.078373 \\ 0.044428 \\ 0.720453 \end{pmatrix} = 0.997784 \cdot \begin{pmatrix} 0.157094 \\ 0.078547 \\ 0.044527 \\ 0.722052 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.5281 & 0.2176 \\ 1/2 & 1 & 1.7640 & 0.1088 \\ 0.2834 & 0.5669 & 1 & 0.0617 \\ 4.5963 & 9.1926 & 16.2162 & 1 \end{pmatrix},$$

Example 0.504.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 7 \\ 1/2 & 1 & 2 & 7 \\ 1/7 & 1/2 & 1 & 5 \\ 1/7 & 1/7 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2287, \quad CR = 0.0862$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.554218 \\ 0.266217 \\ 0.134907 \\ 0.044658 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0818 & 4.1081 & 12.4103 \\ 0.4803 & 1 & 1.9733 & 5.9612 \\ 0.2434 & 0.5068 & 1 & 3.0209 \\ 0.0806 & 0.1678 & 0.3310 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.552231 \\ 0.268847 \\ 0.134424 \\ 0.044498 \end{pmatrix} = 0.996415 \cdot \begin{pmatrix} 0.554218 \\ 0.269814 \\ 0.134907 \\ 0.044658 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0541 & 4.1081 & 12.4103 \\ 0.4868 & 1 & 2 & 6.0418 \\ 0.2434 & 1/2 & 1 & 3.0209 \\ 0.0806 & 0.1655 & 0.3310 & 1 \end{pmatrix},$$

Example 0.505.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 8 \\ 1/2 & 1 & 2 & 7 \\ 1/7 & 1/2 & 1 & 5 \\ 1/8 & 1/7 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1897, \quad CR = 0.0715$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.561755 \\ \mathbf{0.263600} \\ 0.132517 \\ 0.042129 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{2.1311} & 4.2391 & 13.3342 \\ \mathbf{0.4692} & 1 & \mathbf{1.9892} & \mathbf{6.2570} \\ 0.2359 & \mathbf{0.5027} & 1 & 3.1455 \\ 0.0750 & \mathbf{0.1598} & 0.3179 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.560950 \\ 0.264654 \\ 0.132327 \\ 0.042069 \end{pmatrix} = 0.998568 \cdot \begin{pmatrix} 0.561755 \\ \mathbf{0.265034} \\ 0.132517 \\ 0.042129 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{2.1196} & 4.2391 & 13.3342 \\ \mathbf{0.4718} & 1 & \mathbf{2} & \mathbf{6.2910} \\ 0.2359 & \mathbf{1/2} & 1 & 3.1455 \\ 0.0750 & \mathbf{0.1590} & 0.3179 & 1 \end{pmatrix},$$

Example 0.506.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 8 \\ 1/2 & 1 & 2 & 7 \\ 1/7 & 1/2 & 1 & 6 \\ 1/8 & 1/7 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2395, \quad CR = 0.0903$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.560804 \\ 0.259582 \\ 0.139357 \\ 0.040256 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.1604 & 4.0242 & 13.9308 \\ 0.4629 & 1 & 1.8627 & 6.4482 \\ 0.2485 & 0.5369 & 1 & 3.4617 \\ 0.0718 & 0.1551 & 0.2889 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.550277 \\ 0.273482 \\ 0.136741 \\ 0.039501 \end{pmatrix} = 0.981228 \cdot \begin{pmatrix} 0.560804 \\ 0.278714 \\ 0.139357 \\ 0.040256 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0121 & 4.0242 & 13.9308 \\ 0.4970 & 1 & 2 & 6.9235 \\ 0.2485 & 1/2 & 1 & 3.4617 \\ 0.0718 & 0.1444 & 0.2889 & 1 \end{pmatrix},$$

Example 0.507.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 8 \\ 1/2 & 1 & 2 & 8 \\ 1/7 & 1/2 & 1 & 6 \\ 1/8 & 1/8 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2421, \quad CR = 0.0913$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.557120 \\ 0.266547 \\ 0.137507 \\ 0.038825 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0901 & 4.0516 & 14.3494 \\ 0.4784 & 1 & 1.9384 & 6.8653 \\ 0.2468 & 0.5159 & 1 & 3.5417 \\ 0.0697 & 0.1457 & 0.2824 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.552443 \\ 0.272705 \\ 0.136353 \\ 0.038499 \end{pmatrix} = 0.991605 \cdot \begin{pmatrix} 0.557120 \\ 0.275014 \\ 0.137507 \\ 0.038825 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0258 & 4.0516 & 14.3494 \\ 0.4936 & 1 & 2 & 7.0834 \\ 0.2468 & 1/2 & 1 & 3.5417 \\ 0.0697 & 0.1412 & 0.2824 & 1 \end{pmatrix},$$

Example 0.508.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 9 \\ 1/2 & 1 & 2 & 7 \\ 1/7 & 1/2 & 1 & 6 \\ 1/9 & 1/7 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2059, \quad CR = 0.0776$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.567229 \\ 0.257483 \\ 0.137032 \\ 0.038256 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.2030 & 4.1394 & 14.8270 \\ 0.4539 & 1 & 1.8790 & 6.7305 \\ 0.2416 & 0.5322 & 1 & 3.5819 \\ 0.0674 & 0.1486 & 0.2792 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.561439 \\ 0.265062 \\ 0.135633 \\ 0.037866 \end{pmatrix} = 0.989793 \cdot \begin{pmatrix} 0.567229 \\ 0.267795 \\ 0.137032 \\ 0.038256 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.1181 & 4.1394 & 14.8270 \\ 0.4721 & 1 & 1.9543 & 7 \\ 0.2416 & 0.5117 & 1 & 3.5819 \\ 0.0674 & 1/7 & 0.2792 & 1 \end{pmatrix},$$

Example 0.509.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 9 \\ 1/2 & 1 & 2 & 7 \\ 1/7 & 1/2 & 1 & 7 \\ 1/9 & 1/7 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2526, \quad CR = 0.0952$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.565987 \\ 0.254146 \\ 0.143085 \\ 0.036781 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.2270 & 3.9556 & 15.3879 \\ 0.4490 & 1 & 1.7762 & 6.9096 \\ 0.2528 & 0.5630 & 1 & 3.8902 \\ 0.0650 & 0.1447 & 0.2571 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.564112 \\ 0.256617 \\ 0.142611 \\ 0.036660 \end{pmatrix} = 0.996688 \cdot \begin{pmatrix} 0.565987 \\ 0.257470 \\ 0.143085 \\ 0.036781 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.1983 & 3.9556 & 15.3878 \\ 0.4549 & 1 & 1.7994 & 7 \\ 0.2528 & 0.5557 & 1 & 3.8901 \\ 0.0650 & 1/7 & 0.2571 & 1 \end{pmatrix},$$

Example 0.510.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 9 \\ 1/2 & 1 & 2 & 8 \\ 1/7 & 1/2 & 1 & 6 \\ 1/9 & 1/8 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2066, \quad CR = 0.0779$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.563613 \\ 0.264235 \\ 0.135289 \\ 0.036862 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.1330 & 4.1660 & 15.2896 \\ 0.4688 & 1 & 1.9531 & 7.1681 \\ 0.2400 & 0.5120 & 1 & 3.6701 \\ 0.0654 & 0.1395 & 0.2725 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.560062 \\ 0.268872 \\ 0.134436 \\ 0.036630 \end{pmatrix} = 0.993699 \cdot \begin{pmatrix} 0.563613 \\ 0.270577 \\ 0.135289 \\ 0.036862 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0830 & 4.1660 & 15.2896 \\ 0.4801 & 1 & 2 & 7.3402 \\ 0.2400 & 1/2 & 1 & 3.6701 \\ 0.0654 & 0.1362 & 0.2725 & 1 \end{pmatrix},$$

Example 0.511.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 9 \\ 1/2 & 1 & 2 & 8 \\ 1/7 & 1/2 & 1 & 7 \\ 1/9 & 1/8 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2506, \quad CR = 0.0945$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.562646 \\ 0.260697 \\ 0.141195 \\ 0.035463 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.1582 & 3.9849 & 15.8659 \\ 0.4633 & 1 & 1.8464 & 7.3513 \\ 0.2509 & 0.5416 & 1 & 3.9815 \\ 0.0630 & 0.1360 & 0.2512 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.551274 \\ 0.275638 \\ 0.138342 \\ 0.034746 \end{pmatrix} = 0.979790 \cdot \begin{pmatrix} 0.562646 \\ 0.281323 \\ 0.141195 \\ 0.035463 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 3.9849 & 15.8659 \\ 1/2 & 1 & 1.9924 & 7.9329 \\ 0.2509 & 0.5019 & 1 & 3.9815 \\ 0.0630 & 0.1261 & 0.2512 & 1 \end{pmatrix},$$

Example 0.512.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 9 \\ 1/2 & 1 & 2 & 9 \\ 1/7 & 1/2 & 1 & 7 \\ 1/9 & 1/9 & 1/7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2526, \quad CR = 0.0952$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.559337 \\ 0.266809 \\ 0.139505 \\ 0.034349 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0964 & 4.0094 & 16.2839 \\ 0.4770 & 1 & 1.9125 & 7.7676 \\ 0.2494 & 0.5229 & 1 & 4.0614 \\ 0.0614 & 0.1287 & 0.2462 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.552595 \\ 0.275647 \\ 0.137823 \\ 0.033935 \end{pmatrix} = 0.987946 \cdot \begin{pmatrix} 0.559337 \\ 0.279010 \\ 0.139505 \\ 0.034349 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0047 & 4.0095 & 16.2839 \\ 0.4988 & 1 & 2 & 8.1228 \\ 0.2494 & 1/2 & 1 & 4.0614 \\ 0.0614 & 0.1231 & 0.2462 & 1 \end{pmatrix},$$

Example 0.513.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 9 \\ 1/2 & 1 & 5 & 3 \\ 1/7 & 1/5 & 1 & 2 \\ 1/9 & 1/3 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1239, \quad CR = 0.0467$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.561690 \\ 0.288475 \\ 0.085405 \\ 0.064430 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9471 & 6.5768 & 8.7179 \\ 0.5136 & 1 & 3.3777 & 4.4773 \\ 0.1520 & 0.2961 & 1 & 1.3256 \\ 0.1147 & 0.2233 & 0.7544 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.568278 \\ 0.284139 \\ 0.084122 \\ 0.063461 \end{pmatrix} = 0.984970 \cdot \begin{pmatrix} 0.576949 \\ 0.288475 \\ 0.085405 \\ 0.064430 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 6.7554 & 8.9547 \\ 1/2 & 1 & 3.3777 & 4.4774 \\ 0.1480 & 0.2961 & 1 & 1.3256 \\ 0.1117 & 0.2233 & 0.7544 & 1 \end{pmatrix},$$

Example 0.514.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 9 \\ 1/2 & 1 & 6 & 3 \\ 1/7 & 1/6 & 1 & 2 \\ 1/9 & 1/3 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1658, \quad CR = 0.0625$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.552625 \\ 0.302041 \\ 0.081295 \\ 0.064038 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8296 & 6.7978 & 8.6296 \\ 0.5466 & 1 & 3.7154 & 4.7166 \\ 0.1471 & 0.2692 & 1 & 1.2695 \\ 0.1159 & 0.2120 & 0.7877 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.559862 \\ 0.297156 \\ 0.079980 \\ 0.063002 \end{pmatrix} = 0.983825 \cdot \begin{pmatrix} 0.569066 \\ 0.302041 \\ 0.081295 \\ 0.064038 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.8841 & 7 & 8.8864 \\ 0.5308 & 1 & 3.7154 & 4.7166 \\ 1/7 & 0.2692 & 1 & 1.2695 \\ 0.1125 & 0.2120 & 0.7877 & 1 \end{pmatrix},$$

Example 0.515.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 9 \\ 1/2 & 1 & 6 & 3 \\ 1/7 & 1/6 & 1 & 1/3 \\ 1/9 & 1/3 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1571, \quad CR = 0.0593$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.570430 \\ 0.280465 \\ 0.050978 \\ 0.098128 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0339 & 11.1898 & 5.8131 \\ 0.4917 & 1 & 5.5017 & 2.8582 \\ 0.0894 & 0.1818 & 1 & 0.5195 \\ 0.1720 & 0.3499 & 1.9249 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.567733 \\ 0.283866 \\ 0.050737 \\ 0.097664 \end{pmatrix} = 0.995273 \cdot \begin{pmatrix} 0.570430 \\ 0.285214 \\ 0.050978 \\ 0.098128 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 11.1898 & 5.8131 \\ 1/2 & 1 & 5.5949 & 2.9066 \\ 0.0894 & 0.1787 & 1 & 0.5195 \\ 0.1720 & 0.3440 & 1.9249 & 1 \end{pmatrix},$$

Example 0.516.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 9 \\ 1/2 & 1 & 6 & 3 \\ 1/7 & 1/6 & 1 & 1/4 \\ 1/9 & 1/3 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2359, \quad CR = 0.0890$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.570212 \\ 0.275386 \\ 0.047607 \\ 0.106794 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0706 & 11.9774 & 5.3393 \\ 0.4830 & 1 & 5.7845 & 2.5787 \\ 0.0835 & 0.1729 & 1 & 0.4458 \\ 0.1873 & 0.3878 & 2.2432 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.564723 \\ 0.282361 \\ 0.047149 \\ 0.105767 \end{pmatrix} = 0.990374 \cdot \begin{pmatrix} 0.570212 \\ 0.285105 \\ 0.047607 \\ 0.106794 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 11.9774 & 5.3393 \\ 1/2 & 1 & 5.9887 & 2.6697 \\ 0.0835 & 0.1670 & 1 & 0.4458 \\ 0.1873 & 0.3746 & 2.2432 & 1 \end{pmatrix},$$

Example 0.517.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 9 \\ 1/2 & 1 & 7 & 3 \\ 1/7 & 1/7 & 1 & 2 \\ 1/9 & 1/3 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2086, \quad CR = 0.0786$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.544262 \\ 0.314225 \\ 0.077885 \\ 0.063629 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7321 & 6.9880 & 8.5537 \\ 0.5773 & 1 & 4.0345 & 4.9384 \\ 0.1431 & 0.2479 & 1 & 1.2241 \\ 0.1169 & 0.2025 & 0.8170 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.544686 \\ 0.313932 \\ 0.077812 \\ 0.063570 \end{pmatrix} = 0.999069 \cdot \begin{pmatrix} 0.545194 \\ 0.314225 \\ 0.077885 \\ 0.063629 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7350 & 7 & 8.5683 \\ 0.5764 & 1 & 4.0345 & 4.9384 \\ 1/7 & 0.2479 & 1 & 1.2240 \\ 0.1167 & 0.2025 & 0.8170 & 1 \end{pmatrix},$$

Example 0.518.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/2 \\ 1/2 & 1 & 6 & 1/8 \\ 1/7 & 1/6 & 1 & 1/9 \\ 2 & 8 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2463, \quad CR = 0.0929$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.251034 \\ 0.130575 \\ 0.037629 \\ 0.580763 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9225 & 6.6714 & 0.4322 \\ 0.5201 & 1 & 3.4701 & 0.2248 \\ 0.1499 & 0.2882 & 1 & 0.0648 \\ 2.3135 & 4.4477 & 15.4341 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.258534 \\ 0.129267 \\ 0.037252 \\ 0.574947 \end{pmatrix} = 0.989986 \cdot \begin{pmatrix} 0.261149 \\ 0.130575 \\ 0.037629 \\ 0.580763 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 6.9402 & 0.4497 \\ 1/2 & 1 & 3.4701 & 0.2248 \\ 0.1441 & 0.2882 & 1 & 0.0648 \\ 2.2239 & 4.4477 & 15.4340 & 1 \end{pmatrix},$$

Example 0.519.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/3 \\ 1/2 & 1 & 2 & 1/3 \\ 1/7 & 1/2 & 1 & 1/4 \\ 3 & 3 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2421, \quad CR = 0.0913$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.294308 \\ 0.140808 \\ 0.072640 \\ 0.492244 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0901 & 4.0516 & 0.5979 \\ 0.4784 & 1 & 1.9384 & 0.2861 \\ 0.2468 & 0.5159 & 1 & 0.1476 \\ 1.6726 & 3.4959 & 6.7765 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.292997 \\ 0.144634 \\ 0.072317 \\ 0.490051 \end{pmatrix} = 0.995548 \cdot \begin{pmatrix} 0.294308 \\ 0.145281 \\ 0.072640 \\ 0.492244 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0258 & 4.0516 & 0.5979 \\ 0.4936 & 1 & 2 & 0.2951 \\ 0.2468 & 1/2 & 1 & 0.1476 \\ 1.6725 & 3.3882 & 6.7764 & 1 \end{pmatrix},$$

Example 0.520.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/3 \\ 1/2 & 1 & 2 & 1/4 \\ 1/7 & 1/2 & 1 & 1/5 \\ 3 & 4 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1782, \quad CR = 0.0672$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.279961 \\ 0.126899 \\ 0.065737 \\ 0.527402 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.2062 & 4.2588 & 0.5308 \\ 0.4533 & 1 & 1.9304 & 0.2406 \\ 0.2348 & 0.5180 & 1 & 0.1246 \\ 1.8838 & 4.1561 & 8.0229 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.278686 \\ 0.130876 \\ 0.065438 \\ 0.525000 \end{pmatrix} = 0.995445 \cdot \begin{pmatrix} 0.279961 \\ 0.131475 \\ 0.065737 \\ 0.527402 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.1294 & 4.2588 & 0.5308 \\ 0.4696 & 1 & 2 & 0.2493 \\ 0.2348 & 1/2 & 1 & 0.1246 \\ 1.8838 & 4.0114 & 8.0228 & 1 \end{pmatrix},$$

Example 0.521.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/4 \\ 1/2 & 1 & 2 & 1/4 \\ 1/7 & 1/2 & 1 & 1/5 \\ 4 & 4 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2610, \quad CR = 0.0984$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.254888 \\ \mathbf{0.121301} \\ 0.064093 \\ 0.559717 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{2.1013} & 3.9768 & 0.4554 \\ \mathbf{0.4759} & 1 & \mathbf{1.8926} & \mathbf{0.2167} \\ 0.2515 & \mathbf{0.5284} & 1 & 0.1145 \\ 2.1959 & \mathbf{4.6143} & 8.7329 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.253332 \\ 0.126666 \\ 0.063702 \\ 0.556300 \end{pmatrix} = 0.993894 \cdot \begin{pmatrix} 0.254888 \\ \mathbf{0.127444} \\ 0.064093 \\ 0.559717 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{2} & 3.9768 & 0.4554 \\ \mathbf{1/2} & 1 & \mathbf{1.9884} & \mathbf{0.2277} \\ 0.2515 & \mathbf{0.5029} & 1 & 0.1145 \\ 2.1959 & \mathbf{4.3919} & 8.7328 & 1 \end{pmatrix},$$

Example 0.522.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/4 \\ 1/2 & 1 & 2 & 1/5 \\ 1/7 & 1/2 & 1 & 1/5 \\ 4 & 5 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2610, \quad CR = 0.0984$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.249126 \\ 0.112362 \\ 0.063414 \\ 0.575098 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.2172 & 3.9286 & 0.4332 \\ 0.4510 & 1 & 1.7719 & 0.1954 \\ 0.2545 & 0.5644 & 1 & 0.1103 \\ 2.3085 & 5.1183 & 9.0690 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.248466 \\ 0.114715 \\ 0.063245 \\ 0.573574 \end{pmatrix} = 0.997349 \cdot \begin{pmatrix} 0.249126 \\ 0.115020 \\ 0.063414 \\ 0.575098 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.1659 & 3.9286 & 0.4332 \\ 0.4617 & 1 & 1.8138 & 1/5 \\ 0.2545 & 0.5513 & 1 & 0.1103 \\ 2.3085 & 5 & 9.0690 & 1 \end{pmatrix},$$

Example 0.523.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/4 \\ 1/2 & 1 & 2 & 1/5 \\ 1/7 & 1/2 & 1 & 1/6 \\ 4 & 5 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2057, \quad CR = 0.0776$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.243292 \\ \mathbf{0.111178} \\ 0.058693 \\ 0.586837 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{2.1883} & 4.1452 & 0.4146 \\ \mathbf{0.4570} & 1 & \mathbf{1.8942} & \mathbf{0.1895} \\ 0.2412 & \mathbf{0.5279} & 1 & 0.1000 \\ 2.4121 & \mathbf{5.2784} & 9.9984 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.241795 \\ 0.116645 \\ 0.058332 \\ 0.583228 \end{pmatrix} = 0.993848 \cdot \begin{pmatrix} 0.243292 \\ \mathbf{0.117367} \\ 0.058693 \\ 0.586837 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{2.0729} & 4.1452 & 0.4146 \\ \mathbf{0.4824} & 1 & \mathbf{1.9997} & \mathbf{1/5} \\ 0.2412 & \mathbf{0.5001} & 1 & 0.1000 \\ 2.4121 & \mathbf{5} & 9.9984 & 1 \end{pmatrix},$$

Example 0.524.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/4 \\ 1/2 & 1 & 2 & 1/5 \\ 1/7 & 1/2 & 1 & 1/7 \\ 4 & 5 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1665, \quad CR = 0.0628$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.238317 \\ 0.110079 \\ 0.055047 \\ 0.596557 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.1650 & 4.3293 & 0.3995 \\ 0.4619 & 1 & 1.9997 & 0.1845 \\ 0.2310 & 0.5001 & 1 & 0.0923 \\ 2.5032 & 5.4194 & 10.8372 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.238313 \\ 0.110093 \\ 0.055047 \\ 0.596547 \end{pmatrix} = 0.999985 \cdot \begin{pmatrix} 0.238317 \\ 0.110095 \\ 0.055047 \\ 0.596557 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.1647 & 4.3293 & 0.3995 \\ 0.4620 & 1 & 2 & 0.1846 \\ 0.2310 & 1/2 & 1 & 0.0923 \\ 2.5032 & 5.4186 & 10.8371 & 1 \end{pmatrix},$$

Example 0.525.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/4 \\ 1/2 & 1 & 2 & 1/6 \\ 1/7 & 1/2 & 1 & 1/8 \\ 4 & 6 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1365, \quad CR = 0.0515$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.228815 \\ 0.102025 \\ 0.051309 \\ 0.617851 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.2427 & 4.4595 & 0.3703 \\ 0.4459 & 1 & 1.9884 & 0.1651 \\ 0.2242 & 0.5029 & 1 & 0.0830 \\ 2.7002 & 6.0559 & 12.0417 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.228679 \\ 0.102558 \\ 0.051279 \\ 0.617484 \end{pmatrix} = 0.999406 \cdot \begin{pmatrix} 0.228815 \\ 0.102619 \\ 0.051309 \\ 0.617851 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.2298 & 4.4595 & 0.3703 \\ 0.4485 & 1 & 2 & 0.1661 \\ 0.2242 & 1/2 & 1 & 0.0830 \\ 2.7002 & 6.0208 & 12.0417 & 1 \end{pmatrix},$$

Example 0.526.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/5 \\ 1/2 & 1 & 2 & 1/5 \\ 1/7 & 1/2 & 1 & 1/7 \\ 5 & 5 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2287, \quad CR = 0.0862$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.220070 \\ 0.105710 \\ 0.053569 \\ 0.620651 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0818 & 4.1081 & 0.3546 \\ 0.4803 & 1 & 1.9733 & 0.1703 \\ 0.2434 & 0.5068 & 1 & 0.0863 \\ 2.8203 & 5.8713 & 11.5860 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.219756 \\ 0.106986 \\ 0.053493 \\ 0.619766 \end{pmatrix} = 0.998574 \cdot \begin{pmatrix} 0.220070 \\ 0.107139 \\ 0.053569 \\ 0.620651 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0541 & 4.1081 & 0.3546 \\ 0.4868 & 1 & 2 & 0.1726 \\ 0.2434 & 1/2 & 1 & 0.0863 \\ 2.8202 & 5.7930 & 11.5860 & 1 \end{pmatrix},$$

Example 0.527.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/5 \\ 1/2 & 1 & 2 & 1/6 \\ 1/7 & 1/2 & 1 & 1/7 \\ 5 & 6 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2251, \quad CR = 0.0849$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.215405 \\ 0.098905 \\ 0.052905 \\ 0.632785 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.1779 & 4.0716 & 0.3404 \\ 0.4592 & 1 & 1.8695 & 0.1563 \\ 0.2456 & 0.5349 & 1 & 0.0836 \\ 2.9377 & 6.3979 & 11.9608 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.214001 \\ 0.104777 \\ 0.052560 \\ 0.628662 \end{pmatrix} = 0.993481 \cdot \begin{pmatrix} 0.215405 \\ 0.105465 \\ 0.052905 \\ 0.632785 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0424 & 4.0716 & 0.3404 \\ 0.4896 & 1 & 1.9935 & 1/6 \\ 0.2456 & 0.5016 & 1 & 0.0836 \\ 2.9377 & 6 & 11.9608 & 1 \end{pmatrix},$$

Example 0.528.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/5 \\ 1/2 & 1 & 2 & 1/6 \\ 1/7 & 1/2 & 1 & 1/8 \\ 5 & 6 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1888, \quad CR = 0.0712$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.211262 \\ 0.097946 \\ 0.049944 \\ 0.640849 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.1569 & 4.2300 & 0.3297 \\ 0.4636 & 1 & 1.9611 & 0.1528 \\ 0.2364 & 0.5099 & 1 & 0.0779 \\ 3.0334 & 6.5429 & 12.8314 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.210852 \\ 0.099694 \\ 0.049847 \\ 0.639608 \end{pmatrix} = 0.998061 \cdot \begin{pmatrix} 0.211262 \\ 0.099887 \\ 0.049944 \\ 0.640849 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.1150 & 4.2300 & 0.3297 \\ 0.4728 & 1 & 2 & 0.1559 \\ 0.2364 & 1/2 & 1 & 0.0779 \\ 3.0334 & 6.4157 & 12.8315 & 1 \end{pmatrix},$$

Example 0.529.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/5 \\ 1/2 & 1 & 2 & 1/7 \\ 1/7 & 1/2 & 1 & 1/8 \\ 5 & 7 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1897, \quad CR = 0.0715$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.207015 \\ 0.092521 \\ 0.049293 \\ 0.651171 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.2375 & 4.1997 & 0.3179 \\ 0.4469 & 1 & 1.8770 & 0.1421 \\ 0.2381 & 0.5328 & 1 & 0.0757 \\ 3.1455 & 7.0381 & 13.2103 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.206911 \\ 0.092978 \\ 0.049268 \\ 0.650843 \end{pmatrix} = 0.999496 \cdot \begin{pmatrix} 0.207015 \\ 0.093025 \\ 0.049293 \\ 0.651171 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.2254 & 4.1997 & 0.3179 \\ 0.4494 & 1 & 1.8872 & 1/7 \\ 0.2381 & 0.5299 & 1 & 0.0757 \\ 3.1455 & 7 & 13.2103 & 1 \end{pmatrix},$$

Example 0.530.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/5 \\ 1/2 & 1 & 2 & 1/7 \\ 1/7 & 1/2 & 1 & 1/9 \\ 5 & 7 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1597, \quad CR = 0.0602$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.203395 \\ 0.091590 \\ 0.046835 \\ 0.658180 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.2207 & 4.3428 & 0.3090 \\ 0.4503 & 1 & 1.9556 & 0.1392 \\ 0.2303 & 0.5114 & 1 & 0.0712 \\ 3.2360 & 7.1862 & 14.0532 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.202973 \\ 0.093476 \\ 0.046738 \\ 0.656813 \end{pmatrix} = 0.997924 \cdot \begin{pmatrix} 0.203395 \\ 0.093670 \\ 0.046835 \\ 0.658180 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.1714 & 4.3428 & 0.3090 \\ 0.4605 & 1 & 2 & 0.1423 \\ 0.2303 & 1/2 & 1 & 0.0712 \\ 3.2360 & 7.0266 & 14.0531 & 1 \end{pmatrix},$$

Example 0.531.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/6 \\ 1/2 & 1 & 2 & 1/6 \\ 1/7 & 1/2 & 1 & 1/8 \\ 6 & 6 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2421, \quad CR = 0.0913$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.197225 \\ 0.094360 \\ 0.048679 \\ 0.659736 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0901 & 4.0516 & 0.2989 \\ 0.4784 & 1 & 1.9384 & 0.1430 \\ 0.2468 & 0.5159 & 1 & 0.0738 \\ 3.3451 & 6.9917 & 13.5529 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.196636 \\ 0.097067 \\ 0.048533 \\ 0.657764 \end{pmatrix} = 0.997013 \cdot \begin{pmatrix} 0.197225 \\ 0.097357 \\ 0.048679 \\ 0.659736 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0258 & 4.0516 & 0.2989 \\ 0.4936 & 1 & 2 & 0.1476 \\ 0.2468 & 1/2 & 1 & 0.0738 \\ 3.3451 & 6.7764 & 13.5529 & 1 \end{pmatrix},$$

Example 0.532.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/6 \\ 1/2 & 1 & 2 & 1/7 \\ 1/7 & 1/2 & 1 & 1/8 \\ 6 & 7 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2395, \quad CR = 0.0903$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.193383 \\ 0.089070 \\ 0.048107 \\ 0.669441 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.1711 & 4.0199 & 0.2889 \\ 0.4606 & 1 & 1.8515 & 0.1331 \\ 0.2488 & 0.5401 & 1 & 0.0719 \\ 3.4617 & 7.5159 & 13.9158 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.192122 \\ 0.095011 \\ 0.047793 \\ 0.665074 \end{pmatrix} = 0.993480 \cdot \begin{pmatrix} 0.193383 \\ 0.095634 \\ 0.048107 \\ 0.669441 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0221 & 4.0199 & 0.2889 \\ 0.4945 & 1 & 1.9880 & 1/7 \\ 0.2488 & 0.5030 & 1 & 0.0719 \\ 3.4617 & 7 & 13.9157 & 1 \end{pmatrix},$$

Example 0.533.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/6 \\ 1/2 & 1 & 2 & 1/7 \\ 1/7 & 1/2 & 1 & 1/9 \\ 6 & 7 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2059, \quad CR = 0.0776$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.189892 \\ 0.088232 \\ 0.045659 \\ 0.676217 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.1522 & 4.1589 & 0.2808 \\ 0.4646 & 1 & 1.9324 & 0.1305 \\ 0.2404 & 0.5175 & 1 & 0.0675 \\ 3.5611 & 7.6641 & 14.8102 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.189308 \\ 0.091037 \\ 0.045518 \\ 0.674137 \end{pmatrix} = 0.996927 \cdot \begin{pmatrix} 0.189892 \\ 0.091317 \\ 0.045659 \\ 0.676217 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0795 & 4.1589 & 0.2808 \\ 0.4809 & 1 & 2 & 0.1350 \\ 0.2404 & 1/2 & 1 & 0.0675 \\ 3.5611 & 7.4051 & 14.8102 & 1 \end{pmatrix},$$

Example 0.534.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/6 \\ 1/2 & 1 & 2 & 1/8 \\ 1/7 & 1/2 & 1 & 1/9 \\ 6 & 8 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2066, \quad CR = 0.0779$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.186376 \\ 0.083885 \\ 0.045107 \\ 0.684631 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.2218 & 4.1319 & 0.2722 \\ 0.4501 & 1 & 1.8597 & 0.1225 \\ 0.2420 & 0.5377 & 1 & 0.0659 \\ 3.6734 & 8.1615 & 15.1779 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.186061 \\ 0.085434 \\ 0.045031 \\ 0.683474 \end{pmatrix} = 0.998308 \cdot \begin{pmatrix} 0.186376 \\ 0.085579 \\ 0.045107 \\ 0.684631 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.1778 & 4.1319 & 0.2722 \\ 0.4592 & 1 & 1.8972 & 1/8 \\ 0.2420 & 0.5271 & 1 & 0.0659 \\ 3.6734 & 8 & 15.1779 & 1 \end{pmatrix},$$

Example 0.535.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/7 \\ 1/2 & 1 & 2 & 1/7 \\ 1/7 & 1/2 & 1 & 1/9 \\ 7 & 7 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2526, \quad CR = 0.0952$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.178723 \\ 0.085252 \\ 0.044575 \\ 0.691450 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0964 & 4.0094 & 0.2585 \\ 0.4770 & 1 & 1.9125 & 0.1233 \\ 0.2494 & 0.5229 & 1 & 0.0645 \\ 3.8688 & 8.1106 & 15.5119 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.178028 \\ 0.088805 \\ 0.044402 \\ 0.688765 \end{pmatrix} = 0.996113 \cdot \begin{pmatrix} 0.178723 \\ 0.089151 \\ 0.044575 \\ 0.691450 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0047 & 4.0094 & 0.2585 \\ 0.4988 & 1 & 2 & 0.1289 \\ 0.2494 & 1/2 & 1 & 0.0645 \\ 3.8689 & 7.7560 & 15.5119 & 1 \end{pmatrix},$$

Example 0.536.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/7 \\ 1/2 & 1 & 2 & 1/8 \\ 1/7 & 1/2 & 1 & 1/9 \\ 7 & 8 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2506, \quad CR = 0.0945$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.175512 \\ 0.081014 \\ 0.044082 \\ 0.699392 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.1664 & 3.9815 & 0.2509 \\ 0.4616 & 1 & 1.8378 & 0.1158 \\ 0.2512 & 0.5441 & 1 & 0.0630 \\ 3.9849 & 8.6329 & 15.8658 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.174394 \\ 0.086867 \\ 0.043801 \\ 0.694938 \end{pmatrix} = 0.993633 \cdot \begin{pmatrix} 0.175512 \\ 0.087424 \\ 0.044082 \\ 0.699392 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0076 & 3.9815 & 0.2509 \\ 0.4981 & 1 & 1.9832 & 1/8 \\ 0.2512 & 0.5042 & 1 & 0.0630 \\ 3.9849 & 8 & 15.8659 & 1 \end{pmatrix},$$

Example 0.537.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 7 & 1/7 \\ 1/2 & 1 & 2 & 1/9 \\ 1/7 & 1/2 & 1 & 1/9 \\ 7 & 9 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2526, \quad CR = 0.0952$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.172533 \\ 0.077473 \\ 0.043618 \\ 0.706376 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.2270 & 3.9556 & 0.2443 \\ 0.4490 & 1 & 1.7762 & 0.1097 \\ 0.2528 & 0.5630 & 1 & 0.0617 \\ 4.0941 & 9.1177 & 16.1947 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.172359 \\ 0.078407 \\ 0.043573 \\ 0.705661 \end{pmatrix} = 0.998989 \cdot \begin{pmatrix} 0.172533 \\ 0.078486 \\ 0.043618 \\ 0.706376 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.1983 & 3.9556 & 0.2443 \\ 0.4549 & 1 & 1.7994 & 1/9 \\ 0.2528 & 0.5557 & 1 & 0.0617 \\ 4.0941 & 9 & 16.1947 & 1 \end{pmatrix},$$

Example 0.538.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 8 \\ 1/2 & 1 & 3 & 6 \\ 1/8 & 1/3 & 1 & 3 \\ 1/8 & 1/6 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.567538 \\ 0.283090 \\ 0.100509 \\ 0.048862 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0048 & 5.6467 & 11.6150 \\ 0.4988 & 1 & 2.8166 & 5.7936 \\ 0.1771 & 0.3550 & 1 & 2.0570 \\ 0.0861 & 0.1726 & 0.4862 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.567153 \\ 0.283577 \\ 0.100441 \\ 0.048829 \end{pmatrix} = 0.999321 \cdot \begin{pmatrix} 0.567538 \\ 0.283770 \\ 0.100509 \\ 0.048862 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 5.6466 & 11.6150 \\ 1/2 & 1 & 2.8233 & 5.8075 \\ 0.1771 & 0.3542 & 1 & 2.0570 \\ 0.0861 & 0.1722 & 0.4861 & 1 \end{pmatrix},$$

Example 0.539.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 9 \\ 1/2 & 1 & 2 & 8 \\ 1/8 & 1/2 & 1 & 6 \\ 1/9 & 1/8 & 1/6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.577054 \\ 0.257703 \\ 0.128956 \\ 0.036288 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.2392 & 4.4748 & 15.9022 \\ 0.4466 & 1 & 1.9984 & 7.1017 \\ 0.2235 & 0.5004 & 1 & 3.5537 \\ 0.0629 & 0.1408 & 0.2814 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.576933 \\ 0.257858 \\ 0.128929 \\ 0.036280 \end{pmatrix} = 0.999791 \cdot \begin{pmatrix} 0.577054 \\ 0.257912 \\ 0.128956 \\ 0.036288 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.2374 & 4.4748 & 15.9022 \\ 0.4469 & 1 & 2 & 7.1074 \\ 0.2235 & 1/2 & 1 & 3.5537 \\ 0.0629 & 0.1407 & 0.2814 & 1 \end{pmatrix},$$

Example 0.540.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 9 \\ 1/2 & 1 & 3 & 7 \\ 1/8 & 1/3 & 1 & 4 \\ 1/9 & 1/7 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1396, \quad CR = 0.0527$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.568919 \\ 0.283985 \\ 0.105630 \\ 0.041466 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0033 & 5.3860 & 13.7200 \\ 0.4992 & 1 & 2.6885 & 6.8486 \\ 0.1857 & 0.3720 & 1 & 2.5474 \\ 0.0729 & 0.1460 & 0.3926 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.568649 \\ 0.284324 \\ 0.105580 \\ 0.041447 \end{pmatrix} = 0.999526 \cdot \begin{pmatrix} 0.568919 \\ 0.284459 \\ 0.105630 \\ 0.041466 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 5.3860 & 13.7200 \\ 1/2 & 1 & 2.6930 & 6.8600 \\ 0.1857 & 0.3713 & 1 & 2.5474 \\ 0.0729 & 0.1458 & 0.3926 & 1 \end{pmatrix},$$

Example 0.541.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 9 \\ 1/2 & 1 & 6 & 3 \\ 1/8 & 1/6 & 1 & 2 \\ 1/9 & 1/3 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.563011 \\ 0.296064 \\ 0.077727 \\ 0.063197 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9017 & 7.2434 & 8.9088 \\ 0.5259 & 1 & 3.8090 & 4.6848 \\ 0.1381 & 0.2625 & 1 & 1.2299 \\ 0.1122 & 0.2135 & 0.8131 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.565516 \\ 0.294367 \\ 0.077282 \\ 0.062835 \end{pmatrix} = 0.994267 \cdot \begin{pmatrix} 0.568777 \\ 0.296064 \\ 0.077727 \\ 0.063197 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9211 & 7.3176 & 9 \\ 0.5205 & 1 & 3.8090 & 4.6848 \\ 0.1367 & 0.2625 & 1 & 1.2299 \\ 1/9 & 0.2135 & 0.8131 & 1 \end{pmatrix},$$

Example 0.542.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 9 \\ 1/2 & 1 & 6 & 3 \\ 1/8 & 1/6 & 1 & 1/3 \\ 1/9 & 1/3 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1263, \quad CR = 0.0476$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.578100 \\ 0.277375 \\ 0.048175 \\ 0.096350 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0842 & 12.0000 & 6.0000 \\ 0.4798 & 1 & 5.7577 & 2.8788 \\ 0.0833 & 0.1737 & 1 & 0.5000 \\ 0.1667 & 0.3474 & 2.0000 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.571429 \\ 0.285714 \\ 0.047619 \\ 0.095238 \end{pmatrix} = 0.988460 \cdot \begin{pmatrix} 0.578100 \\ 0.289050 \\ 0.048175 \\ 0.096350 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0000 & 12.0000 & 6.0000 \\ 0.5000 & 1 & 6.0000 & 3 \\ 0.0833 & 0.1667 & 1 & 0.5000 \\ 0.1667 & 1/3 & 2.0000 & 1 \end{pmatrix},$$

Example 0.543.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 9 \\ 1/2 & 1 & 7 & 3 \\ 1/8 & 1/7 & 1 & 2 \\ 1/9 & 1/3 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2066, \quad CR = 0.0779$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.554558 \\ 0.308030 \\ 0.074550 \\ 0.062862 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8003 & 7.4388 & 8.8218 \\ 0.5555 & 1 & 4.1319 & 4.9001 \\ 0.1344 & 0.2420 & 1 & 1.1859 \\ 0.1134 & 0.2041 & 0.8432 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.559491 \\ 0.304619 \\ 0.073724 \\ 0.062166 \end{pmatrix} = 0.988925 \cdot \begin{pmatrix} 0.565757 \\ 0.308030 \\ 0.074550 \\ 0.062862 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.8367 & 7.5890 & 9 \\ 0.5445 & 1 & 4.1319 & 4.9001 \\ 0.1318 & 0.2420 & 1 & 1.1859 \\ 1/9 & 0.2041 & 0.8432 & 1 \end{pmatrix},$$

Example 0.544.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 9 \\ 1/2 & 1 & 7 & 3 \\ 1/8 & 1/7 & 1 & 1/4 \\ 1/9 & 1/3 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1964, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.573348 \\ 0.280601 \\ 0.043021 \\ 0.103030 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0433 & 13.3271 & 5.5649 \\ 0.4894 & 1 & 6.5224 & 2.7235 \\ 0.0750 & 0.1533 & 1 & 0.4176 \\ 0.1797 & 0.3672 & 2.3949 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.569887 \\ 0.284944 \\ 0.042761 \\ 0.102408 \end{pmatrix} = 0.993964 \cdot \begin{pmatrix} 0.573348 \\ 0.286674 \\ 0.043021 \\ 0.103030 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 13.3271 & 5.5649 \\ 1/2 & 1 & 6.6636 & 2.7824 \\ 0.0750 & 0.1501 & 1 & 0.4176 \\ 0.1797 & 0.3594 & 2.3949 & 1 \end{pmatrix},$$

Example 0.545.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 9 \\ 1/2 & 1 & 7 & 3 \\ 1/8 & 1/7 & 1 & 1/5 \\ 1/9 & 1/3 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2649, \quad CR = 0.0999$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.572770 \\ 0.276325 \\ 0.040767 \\ 0.110137 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0728 & 14.0499 & 5.2005 \\ 0.4824 & 1 & 6.7782 & 2.5089 \\ 0.0712 & 0.1475 & 1 & 0.3701 \\ 0.1923 & 0.3986 & 2.7016 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.567637 \\ 0.282811 \\ 0.040402 \\ 0.109150 \end{pmatrix} = 0.991038 \cdot \begin{pmatrix} 0.572770 \\ 0.285369 \\ 0.040767 \\ 0.110137 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0071 & 14.0499 & 5.2005 \\ 0.4982 & 1 & 7 & 2.5910 \\ 0.0712 & 1/7 & 1 & 0.3701 \\ 0.1923 & 0.3859 & 2.7016 & 1 \end{pmatrix},$$

Example 0.546.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 9 \\ 1/2 & 1 & 8 & 3 \\ 1/8 & 1/8 & 1 & 2 \\ 1/9 & 1/3 & 1/2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.546719 \\ 0.318936 \\ 0.071832 \\ 0.062513 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7142 & 7.6110 & 8.7457 \\ 0.5834 & 1 & 4.4400 & 5.1019 \\ 0.1314 & 0.2252 & 1 & 1.1491 \\ 0.1143 & 0.1960 & 0.8703 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.553813 \\ 0.313944 \\ 0.070708 \\ 0.061535 \end{pmatrix} = 0.984348 \cdot \begin{pmatrix} 0.562619 \\ 0.318936 \\ 0.071832 \\ 0.062513 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7641 & 7.8324 & 9 \\ 0.5669 & 1 & 4.4400 & 5.1019 \\ 0.1277 & 0.2252 & 1 & 1.1491 \\ 1/9 & 0.1960 & 0.8703 & 1 \end{pmatrix},$$

Example 0.547.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 9 \\ 1/2 & 1 & 8 & 3 \\ 1/8 & 1/8 & 1 & 1/5 \\ 1/9 & 1/3 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2637, \quad CR = 0.0994$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.569021 \\ 0.283203 \\ 0.039289 \\ 0.108487 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0092 & 14.4831 & 5.2450 \\ 0.4977 & 1 & 7.2083 & 2.6105 \\ 0.0690 & 0.1387 & 1 & 0.3621 \\ 0.1907 & 0.3831 & 2.7613 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.568278 \\ 0.284139 \\ 0.039237 \\ 0.108346 \end{pmatrix} = 0.998693 \cdot \begin{pmatrix} 0.569021 \\ 0.284511 \\ 0.039289 \\ 0.108487 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 14.4831 & 5.2450 \\ 1/2 & 1 & 7.2416 & 2.6225 \\ 0.0690 & 0.1381 & 1 & 0.3621 \\ 0.1907 & 0.3813 & 2.7613 & 1 \end{pmatrix},$$

Example 0.548.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 1/3 \\ 1/2 & 1 & 2 & 1/4 \\ 1/8 & 1/2 & 1 & 1/5 \\ 3 & 4 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2162, \quad CR = 0.0815$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.288963 \\ 0.124856 \\ 0.063165 \\ 0.523017 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.3144 & 4.5748 & 0.5525 \\ 0.4321 & 1 & 1.9767 & 0.2387 \\ 0.2186 & 0.5059 & 1 & 0.1208 \\ 1.8100 & 4.1890 & 8.2802 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.288538 \\ 0.126144 \\ 0.063072 \\ 0.522247 \end{pmatrix} = 0.998530 \cdot \begin{pmatrix} 0.288963 \\ 0.126330 \\ 0.063165 \\ 0.523017 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.2874 & 4.5748 & 0.5525 \\ 0.4372 & 1 & 2 & 0.2415 \\ 0.2186 & 1/2 & 1 & 0.1208 \\ 1.8100 & 4.1401 & 8.2802 & 1 \end{pmatrix},$$

Example 0.549.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 1/3 \\ 1/2 & 1 & 3 & 1/4 \\ 1/8 & 1/3 & 1 & 1/7 \\ 3 & 4 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1317, \quad CR = 0.0496$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.271548 \\ 0.134646 \\ 0.049978 \\ 0.543827 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0168 & 5.4333 & 0.4993 \\ 0.4958 & 1 & 2.6941 & 0.2476 \\ 0.1840 & 0.3712 & 1 & 0.0919 \\ 2.0027 & 4.0389 & 10.8812 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.271242 \\ 0.135621 \\ 0.049922 \\ 0.543214 \end{pmatrix} = 0.998873 \cdot \begin{pmatrix} 0.271548 \\ 0.135774 \\ 0.049978 \\ 0.543827 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 5.4333 & 0.4993 \\ 1/2 & 1 & 2.7167 & 0.2497 \\ 0.1841 & 0.3681 & 1 & 0.0919 \\ 2.0027 & 4.0054 & 10.8812 & 1 \end{pmatrix},$$

Example 0.550.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 1/3 \\ 1/2 & 1 & 3 & 1/4 \\ 1/8 & 1/3 & 1 & 1/8 \\ 3 & 4 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.267223 \\ 0.133292 \\ 0.047324 \\ 0.552161 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0048 & 5.6467 & 0.4840 \\ 0.4988 & 1 & 2.8166 & 0.2414 \\ 0.1771 & 0.3550 & 1 & 0.0857 \\ 2.0663 & 4.1425 & 11.6676 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.267138 \\ 0.133569 \\ 0.047309 \\ 0.551984 \end{pmatrix} = 0.999681 \cdot \begin{pmatrix} 0.267223 \\ 0.133612 \\ 0.047324 \\ 0.552161 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 5.6467 & 0.4840 \\ 1/2 & 1 & 2.8233 & 0.2420 \\ 0.1771 & 0.3542 & 1 & 0.0857 \\ 2.0663 & 4.1326 & 11.6676 & 1 \end{pmatrix},$$

Example 0.551.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 1/4 \\ 1/2 & 1 & 2 & 1/5 \\ 1/8 & 1/2 & 1 & 1/6 \\ 4 & 5 & 6 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2461, \quad CR = 0.0928$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.251425 \\ 0.109414 \\ 0.056454 \\ 0.582707 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.2979 & 4.4536 & 0.4315 \\ 0.4352 & 1 & 1.9381 & 0.1878 \\ 0.2245 & 0.5160 & 1 & 0.0969 \\ 2.3176 & 5.3257 & 10.3218 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.250550 \\ 0.112515 \\ 0.056258 \\ 0.580678 \end{pmatrix} = 0.996520 \cdot \begin{pmatrix} 0.251425 \\ 0.112908 \\ 0.056454 \\ 0.582707 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.2268 & 4.4536 & 0.4315 \\ 0.4491 & 1 & 2 & 0.1938 \\ 0.2245 & 1/2 & 1 & 0.0969 \\ 2.3176 & 5.1609 & 10.3218 & 1 \end{pmatrix},$$

Example 0.552.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 1/4 \\ 1/2 & 1 & 3 & 1/5 \\ 1/8 & 1/3 & 1 & 1/8 \\ 4 & 5 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1689, \quad CR = 0.0637$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.236588 \\ 0.118189 \\ 0.045424 \\ 0.599799 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0018 & 5.2084 & 0.3944 \\ 0.4996 & 1 & 2.6019 & 0.1970 \\ 0.1920 & 0.3843 & 1 & 0.0757 \\ 2.5352 & 5.0749 & 13.2044 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.236564 \\ 0.118282 \\ 0.045420 \\ 0.599735 \end{pmatrix} = 0.999897 \cdot \begin{pmatrix} 0.236588 \\ 0.118294 \\ 0.045424 \\ 0.599799 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 5.2084 & 0.3944 \\ 1/2 & 1 & 2.6042 & 0.1972 \\ 0.1920 & 0.3840 & 1 & 0.0757 \\ 2.5352 & 5.0704 & 13.2043 & 1 \end{pmatrix},$$

Example 0.553.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 1/5 \\ 1/2 & 1 & 2 & 1/7 \\ 1/8 & 1/2 & 1 & 1/8 \\ 5 & 7 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2287, \quad CR = 0.0862$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.214210 \\ 0.091211 \\ 0.047472 \\ 0.647107 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.3485 & 4.5124 & 0.3310 \\ 0.4258 & 1 & 1.9214 & 0.1410 \\ 0.2216 & 0.5205 & 1 & 0.0734 \\ 3.0209 & 7.0946 & 13.6315 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.213946 \\ 0.092330 \\ 0.047413 \\ 0.646311 \end{pmatrix} = 0.998768 \cdot \begin{pmatrix} 0.214210 \\ 0.092444 \\ 0.047472 \\ 0.647107 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.3172 & 4.5124 & 0.3310 \\ 0.4316 & 1 & 1.9474 & 1/7 \\ 0.2216 & 0.5135 & 1 & 0.0734 \\ 3.0209 & 7 & 13.6315 & 1 \end{pmatrix},$$

Example 0.554.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 1/6 \\ 1/2 & 1 & 2 & 1/7 \\ 1/8 & 1/2 & 1 & 1/9 \\ 6 & 7 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2463, \quad CR = 0.0929$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.196483 \\ 0.086955 \\ 0.043979 \\ 0.672583 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.2596 & 4.4676 & 0.2921 \\ 0.4426 & 1 & 1.9772 & 0.1293 \\ 0.2238 & 0.5058 & 1 & 0.0654 \\ 3.4231 & 7.7348 & 15.2932 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.196286 \\ 0.087870 \\ 0.043935 \\ 0.671908 \end{pmatrix} = 0.998998 \cdot \begin{pmatrix} 0.196483 \\ 0.087958 \\ 0.043979 \\ 0.672583 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.2338 & 4.4676 & 0.2921 \\ 0.4477 & 1 & 2 & 0.1308 \\ 0.2238 & 1/2 & 1 & 0.0654 \\ 3.4231 & 7.6466 & 15.2932 & 1 \end{pmatrix},$$

Example 0.555.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 8 & 1/6 \\ 1/2 & 1 & 2 & 1/8 \\ 1/8 & 1/2 & 1 & 1/9 \\ 6 & 8 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.192980 \\ 0.082702 \\ 0.043464 \\ 0.680854 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.3335 & 4.4400 & 0.2834 \\ 0.4285 & 1 & 1.9028 & 0.1215 \\ 0.2252 & 0.5256 & 1 & 0.0638 \\ 3.5281 & 8.2327 & 15.6648 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.192518 \\ 0.084902 \\ 0.043360 \\ 0.679220 \end{pmatrix} = 0.997604 \cdot \begin{pmatrix} 0.192980 \\ 0.085106 \\ 0.043464 \\ 0.680854 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.2675 & 4.4400 & 0.2834 \\ 0.4410 & 1 & 1.9581 & 1/8 \\ 0.2252 & 0.5107 & 1 & 0.0638 \\ 3.5281 & 8 & 15.6648 & 1 \end{pmatrix},$$

Example 0.556.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 9 & 9 \\ 1/2 & 1 & 3 & 6 \\ 1/9 & 1/3 & 1 & 3 \\ 1/9 & 1/6 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.584828 \\ 0.274535 \\ 0.094771 \\ 0.045866 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.1302 & 6.1709 & 12.7509 \\ 0.4694 & 1 & 2.8968 & 5.9857 \\ 0.1621 & 0.3452 & 1 & 2.0663 \\ 0.0784 & 0.1671 & 0.4840 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.584443 \\ 0.275012 \\ 0.094709 \\ 0.045835 \end{pmatrix} = 0.999342 \cdot \begin{pmatrix} 0.584828 \\ 0.275193 \\ 0.094771 \\ 0.045866 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.1252 & 6.1709 & 12.7509 \\ 0.4706 & 1 & 2.9038 & 6 \\ 0.1621 & 0.3444 & 1 & 2.0663 \\ 0.0784 & 1/6 & 0.4840 & 1 \end{pmatrix},$$

Example 0.557.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 9 & 9 \\ 1/2 & 1 & 3 & 7 \\ 1/9 & 1/3 & 1 & 4 \\ 1/9 & 1/7 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1658, \quad CR = 0.0625$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.579832 \\ 0.277985 \\ 0.101290 \\ 0.040894 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0858 & 5.7245 & 14.1790 \\ 0.4794 & 1 & 2.7445 & 6.7978 \\ 0.1747 & 0.3644 & 1 & 2.4769 \\ 0.0705 & 0.1471 & 0.4037 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.575075 \\ 0.283907 \\ 0.100459 \\ 0.040558 \end{pmatrix} = 0.991797 \cdot \begin{pmatrix} 0.579832 \\ 0.286255 \\ 0.101290 \\ 0.040894 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0256 & 5.7245 & 14.1790 \\ 0.4937 & 1 & 2.8261 & 7 \\ 0.1747 & 0.3538 & 1 & 2.4769 \\ 0.0705 & 1/7 & 0.4037 & 1 \end{pmatrix},$$

Example 0.558.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 9 & 9 \\ 1/2 & 1 & 3 & 8 \\ 1/9 & 1/3 & 1 & 4 \\ 1/9 & 1/8 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.575781 \\ 0.284973 \\ 0.099904 \\ 0.039342 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0205 & 5.7634 & 14.6352 \\ 0.4949 & 1 & 2.8525 & 7.2434 \\ 0.1735 & 0.3506 & 1 & 2.5394 \\ 0.0683 & 0.1381 & 0.3938 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.574106 \\ 0.287053 \\ 0.099613 \\ 0.039228 \end{pmatrix} = 0.997091 \cdot \begin{pmatrix} 0.575781 \\ 0.287891 \\ 0.099904 \\ 0.039342 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 5.7634 & 14.6352 \\ 1/2 & 1 & 2.8817 & 7.3176 \\ 0.1735 & 0.3470 & 1 & 2.5394 \\ 0.0683 & 0.1367 & 0.3938 & 1 \end{pmatrix},$$

Example 0.559.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 9 & 9 \\ 1/2 & 1 & 3 & 8 \\ 1/9 & 1/3 & 1 & 5 \\ 1/9 & 1/8 & 1/5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2267, \quad CR = 0.0855$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.575367 \\ 0.280734 \\ 0.106604 \\ 0.037295 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0495 & 5.3972 & 15.4274 \\ 0.4879 & 1 & 2.6334 & 7.5273 \\ 0.1853 & 0.3797 & 1 & 2.8584 \\ 0.0648 & 0.1328 & 0.3498 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.571396 \\ 0.285698 \\ 0.105868 \\ 0.037038 \end{pmatrix} = 0.993099 \cdot \begin{pmatrix} 0.575367 \\ 0.287683 \\ 0.106604 \\ 0.037295 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 5.3972 & 15.4274 \\ 1/2 & 1 & 2.6986 & 7.7137 \\ 0.1853 & 0.3706 & 1 & 2.8584 \\ 0.0648 & 0.1296 & 0.3498 & 1 \end{pmatrix},$$

Example 0.560.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 9 & 9 \\ 1/2 & 1 & 3 & 8 \\ 1/9 & 1/3 & 1 & 1/2 \\ 1/9 & 1/8 & 2 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.555911 \\ 0.313115 \\ 0.061818 \\ 0.069156 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7754 & 8.9927 & 8.0385 \\ 0.5632 & 1 & 5.0651 & 4.5277 \\ 0.1112 & 0.1974 & 1 & 0.8939 \\ 0.1244 & 0.2209 & 1.1187 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.556111 \\ 0.312974 \\ 0.061790 \\ 0.069125 \end{pmatrix} = 0.999550 \cdot \begin{pmatrix} 0.556361 \\ 0.313115 \\ 0.061818 \\ 0.069156 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7769 & 9 & 8.0450 \\ 0.5628 & 1 & 5.0651 & 4.5277 \\ 1/9 & 0.1974 & 1 & 0.8939 \\ 0.1243 & 0.2209 & 1.1187 & 1 \end{pmatrix},$$

Example 0.561.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 9 & 1/3 \\ 1/2 & 1 & 3 & 1/3 \\ 1/9 & 1/3 & 1 & 1/5 \\ 3 & 3 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2508, \quad CR = 0.0946$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.297565 \\ 0.148531 \\ 0.056032 \\ 0.497871 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0034 & 5.3106 & 0.5977 \\ 0.4992 & 1 & 2.6508 & 0.2983 \\ 0.1883 & 0.3772 & 1 & 0.1125 \\ 1.6731 & 3.3520 & 8.8854 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.297491 \\ 0.148745 \\ 0.056018 \\ 0.497745 \end{pmatrix} = 0.999751 \cdot \begin{pmatrix} 0.297565 \\ 0.148782 \\ 0.056032 \\ 0.497871 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 5.3106 & 0.5977 \\ 1/2 & 1 & 2.6553 & 0.2988 \\ 0.1883 & 0.3766 & 1 & 0.1125 \\ 1.6731 & 3.3463 & 8.8854 & 1 \end{pmatrix},$$

Example 0.562.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 9 & 1/3 \\ 1/2 & 1 & 3 & 1/4 \\ 1/9 & 1/3 & 1 & 1/7 \\ 3 & 4 & 7 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1571, \quad CR = 0.0593$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.278766 \\ 0.132793 \\ 0.048273 \\ 0.540168 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0993 & 5.7747 & 0.5161 \\ 0.4764 & 1 & 2.7509 & 0.2458 \\ 0.1732 & 0.3635 & 1 & 0.0894 \\ 1.9377 & 4.0677 & 11.1898 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.278140 \\ 0.134739 \\ 0.048165 \\ 0.538956 \end{pmatrix} = 0.997754 \cdot \begin{pmatrix} 0.278766 \\ 0.135042 \\ 0.048273 \\ 0.540168 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0643 & 5.7747 & 0.5161 \\ 0.4844 & 1 & 2.7975 & 1/4 \\ 0.1732 & 0.3575 & 1 & 0.0894 \\ 1.9377 & 4 & 11.1898 & 1 \end{pmatrix},$$

Example 0.563.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 9 & 1/3 \\ 1/2 & 1 & 3 & 1/4 \\ 1/9 & 1/3 & 1 & 1/8 \\ 3 & 4 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1263, \quad CR = 0.0476$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.274238 \\ 0.131580 \\ 0.045706 \\ 0.548475 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0842 & 6.0000 & 0.5000 \\ 0.4798 & 1 & 2.8788 & 0.2399 \\ 0.1667 & 0.3474 & 1 & 0.0833 \\ 2.0000 & 4.1684 & 12.0000 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.272727 \\ 0.136364 \\ 0.045454 \\ 0.545455 \end{pmatrix} = 0.994491 \cdot \begin{pmatrix} 0.274238 \\ 0.137119 \\ 0.045706 \\ 0.548475 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0000 & 6.0000 & 0.5000 \\ 0.5000 & 1 & 3.0000 & 1/4 \\ 0.1667 & 0.3333 & 1 & 0.0833 \\ 2.0000 & 4 & 12.0000 & 1 \end{pmatrix},$$

Example 0.564.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 9 & 1/3 \\ 1/2 & 1 & 3 & 1/4 \\ 1/9 & 1/3 & 1 & 1/9 \\ 3 & 4 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.270190 \\ 0.130448 \\ 0.043587 \\ 0.555775 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0712 & 6.1989 & 0.4861 \\ 0.4828 & 1 & 2.9928 & 0.2347 \\ 0.1613 & 0.3341 & 1 & 0.0784 \\ 2.0570 & 4.2605 & 12.7509 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.270106 \\ 0.130720 \\ 0.043573 \\ 0.555601 \end{pmatrix} = 0.999689 \cdot \begin{pmatrix} 0.270190 \\ 0.130761 \\ 0.043587 \\ 0.555775 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0663 & 6.1989 & 0.4862 \\ 0.4840 & 1 & 3 & 0.2353 \\ 0.1613 & 1/3 & 1 & 0.0784 \\ 2.0570 & 4.2503 & 12.7509 & 1 \end{pmatrix},$$

Example 0.565.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 9 & 1/4 \\ 1/2 & 1 & 3 & 1/5 \\ 1/9 & 1/3 & 1 & 1/8 \\ 4 & 5 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1972, \quad CR = 0.0744$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.243164 \\ \mathbf{0.116543} \\ 0.043918 \\ 0.596375 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{2.0865} & 5.5368 & 0.4077 \\ \mathbf{0.4793} & 1 & \mathbf{2.6537} & \mathbf{0.1954} \\ 0.1806 & \mathbf{0.3768} & 1 & 0.0736 \\ 2.4526 & \mathbf{5.1172} & 13.5794 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.242502 \\ 0.118950 \\ 0.043798 \\ 0.594750 \end{pmatrix} = 0.997277 \cdot \begin{pmatrix} 0.243164 \\ \mathbf{0.119275} \\ 0.043918 \\ 0.596375 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{2.0387} & 5.5368 & 0.4077 \\ \mathbf{0.4905} & 1 & \mathbf{2.7159} & \mathbf{1/5} \\ 0.1806 & \mathbf{0.3682} & 1 & 0.0736 \\ 2.4526 & \mathbf{5} & 13.5794 & 1 \end{pmatrix},$$

Example 0.566.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 9 & 1/4 \\ 1/2 & 1 & 3 & 1/5 \\ 1/9 & 1/3 & 1 & 1/9 \\ 4 & 5 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.239302 \\ 0.115485 \\ 0.041742 \\ 0.603471 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0721 & 5.7329 & 0.3965 \\ 0.4826 & 1 & 2.7666 & 0.1914 \\ 0.1744 & 0.3615 & 1 & 0.0692 \\ 2.5218 & 5.2255 & 14.4571 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.238309 \\ 0.119154 \\ 0.041569 \\ 0.600968 \end{pmatrix} = 0.995852 \cdot \begin{pmatrix} 0.239302 \\ 0.119650 \\ 0.041742 \\ 0.603471 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 5.7329 & 0.3965 \\ 1/2 & 1 & 2.8664 & 0.1983 \\ 0.1744 & 0.3489 & 1 & 0.0692 \\ 2.5218 & 5.0436 & 14.4571 & 1 \end{pmatrix},$$

Example 0.567.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 9 & 1/5 \\ 1/2 & 1 & 3 & 1/5 \\ 1/9 & 1/3 & 1 & 1/8 \\ 5 & 5 & 8 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2637, \quad CR = 0.0994$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.224709 \\ 0.111838 \\ 0.042842 \\ 0.620611 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0092 & 5.2450 & 0.3621 \\ 0.4977 & 1 & 2.6105 & 0.1802 \\ 0.1907 & 0.3831 & 1 & 0.0690 \\ 2.7618 & 5.5492 & 14.4860 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.224593 \\ 0.112297 \\ 0.042820 \\ 0.620290 \end{pmatrix} = 0.999483 \cdot \begin{pmatrix} 0.224709 \\ 0.112355 \\ 0.042842 \\ 0.620611 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 5.2450 & 0.3621 \\ 1/2 & 1 & 2.6225 & 0.1810 \\ 0.1907 & 0.3813 & 1 & 0.0690 \\ 2.7618 & 5.5237 & 14.4860 & 1 \end{pmatrix},$$

Example 0.568.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 9 & 1/5 \\ 1/2 & 1 & 3 & 1/6 \\ 1/9 & 1/3 & 1 & 1/9 \\ 5 & 6 & 9 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.216076 \\ \mathbf{0.103868} \\ 0.040192 \\ 0.639865 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & \mathbf{2.0803} & 5.3761 & 0.3377 \\ \mathbf{0.4807} & 1 & \mathbf{2.5843} & \mathbf{0.1623} \\ 0.1860 & \mathbf{0.3869} & 1 & 0.0628 \\ 2.9613 & \mathbf{6.1604} & 15.9204 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.215477 \\ 0.106349 \\ 0.040080 \\ 0.638094 \end{pmatrix} = 0.997229 \cdot \begin{pmatrix} 0.216076 \\ \mathbf{0.106644} \\ 0.040192 \\ 0.639865 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & \mathbf{2.0261} & 5.3761 & 0.3377 \\ \mathbf{0.4936} & 1 & \mathbf{2.6534} & \mathbf{1/6} \\ 0.1860 & \mathbf{0.3769} & 1 & 0.0628 \\ 2.9613 & \mathbf{6} & 15.9204 & 1 \end{pmatrix},$$

Example 0.569.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/3 \\ 1/2 & 1 & 1/4 & 1/8 \\ 3 & 4 & 1 & 1/3 \\ 3 & 8 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.127952 \\ 0.063823 \\ 0.264387 \\ 0.543838 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0048 & 0.4840 & 0.2353 \\ 0.4988 & 1 & 0.2414 & 0.1174 \\ 2.0663 & 4.1425 & 1 & 0.4862 \\ 4.2503 & 8.5210 & 2.0570 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.127933 \\ 0.063967 \\ 0.264346 \\ 0.543754 \end{pmatrix} = 0.999849 \cdot \begin{pmatrix} 0.127952 \\ 0.063976 \\ 0.264387 \\ 0.543838 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 0.4840 & 0.2353 \\ 1/2 & 1 & 0.2420 & 0.1176 \\ 2.0663 & 4.1326 & 1 & 0.4861 \\ 4.2503 & 8.5006 & 2.0570 & 1 \end{pmatrix},$$

Example 0.570.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/3 \\ 1/2 & 1 & 1/4 & 1/9 \\ 3 & 4 & 1 & 1/3 \\ 3 & 9 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.126656 \\ 0.061150 \\ 0.260529 \\ 0.551666 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0712 & 0.4861 & 0.2296 \\ 0.4828 & 1 & 0.2347 & 0.1108 \\ 2.0570 & 4.2605 & 1 & 0.4723 \\ 4.3556 & 9.0216 & 2.1175 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.126637 \\ 0.061287 \\ 0.260490 \\ 0.551586 \end{pmatrix} = 0.999851 \cdot \begin{pmatrix} 0.126656 \\ 0.061296 \\ 0.260529 \\ 0.551666 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0663 & 0.4861 & 0.2296 \\ 0.4840 & 1 & 0.2353 & 1/9 \\ 2.0570 & 4.2503 & 1 & 0.4723 \\ 4.3556 & 9 & 2.1175 & 1 \end{pmatrix},$$

Example 0.571.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/3 \\ 1/2 & 1 & 1/4 & 1/9 \\ 3 & 4 & 1 & 1/4 \\ 3 & 9 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.123120 \\ 0.058533 \\ 0.236529 \\ 0.581818 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.1034 & 0.5205 & 0.2116 \\ 0.4754 & 1 & 0.2475 & 0.1006 \\ 1.9211 & 4.0409 & 1 & 0.4065 \\ 4.7256 & 9.9400 & 2.4598 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.123046 \\ 0.059097 \\ 0.236387 \\ 0.581470 \end{pmatrix} = 0.999397 \cdot \begin{pmatrix} 0.123120 \\ 0.059132 \\ 0.236529 \\ 0.581818 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0821 & 0.5205 & 0.2116 \\ 0.4803 & 1 & 1/4 & 0.1016 \\ 1.9211 & 4 & 1 & 0.4065 \\ 4.7256 & 9.8393 & 2.4598 & 1 \end{pmatrix},$$

Example 0.572.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/4 \\ 1/2 & 1 & 1/8 & 1/5 \\ 3 & 8 & 1 & 3 \\ 4 & 5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1689, \quad CR = 0.0637$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.115705 \\ 0.057801 \\ 0.533160 \\ 0.293334 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0018 & 0.2170 & 0.3944 \\ 0.4996 & 1 & 0.1084 & 0.1970 \\ 4.6079 & 9.2241 & 1 & 1.8176 \\ 2.5352 & 5.0749 & 0.5502 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.115699 \\ 0.057849 \\ 0.533133 \\ 0.293319 \end{pmatrix} = 0.999951 \cdot \begin{pmatrix} 0.115705 \\ 0.057852 \\ 0.533160 \\ 0.293334 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 0.2170 & 0.3944 \\ 1/2 & 1 & 0.1085 & 0.1972 \\ 4.6079 & 9.2159 & 1 & 1.8176 \\ 2.5352 & 5.0704 & 0.5502 & 1 \end{pmatrix},$$

Example 0.573.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/4 \\ 1/2 & 1 & 1/9 & 1/4 \\ 3 & 9 & 1 & 4 \\ 4 & 4 & 1/4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2469, \quad CR = 0.0931$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.113609 \\ 0.056759 \\ 0.575442 \\ 0.254190 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0016 & 0.1974 & 0.4469 \\ 0.4996 & 1 & 0.0986 & 0.2233 \\ 5.0651 & 10.1384 & 1 & 2.2638 \\ 2.2374 & 4.4784 & 0.4417 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.113604 \\ 0.056802 \\ 0.575416 \\ 0.254178 \end{pmatrix} = 0.999956 \cdot \begin{pmatrix} 0.113609 \\ 0.056804 \\ 0.575442 \\ 0.254190 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 0.1974 & 0.4469 \\ 1/2 & 1 & 0.0987 & 0.2235 \\ 5.0651 & 10.1302 & 1 & 2.2638 \\ 2.2374 & 4.4748 & 0.4417 & 1 \end{pmatrix},$$

Example 0.574.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/4 \\ 1/2 & 1 & 1/9 & 1/5 \\ 3 & 9 & 1 & 3 \\ 4 & 5 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1655, \quad CR = 0.0624$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.114757 \\ 0.055381 \\ 0.540469 \\ 0.289393 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0721 & 0.2123 & 0.3965 \\ 0.4826 & 1 & 0.1025 & 0.1914 \\ 4.7097 & 9.7592 & 1 & 1.8676 \\ 2.5218 & 5.2255 & 0.5354 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.114528 \\ 0.057264 \\ 0.539392 \\ 0.288817 \end{pmatrix} = 0.998007 \cdot \begin{pmatrix} 0.114757 \\ 0.057378 \\ 0.540469 \\ 0.289393 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 0.2123 & 0.3965 \\ 1/2 & 1 & 0.1062 & 0.1983 \\ 4.7097 & 9.4194 & 1 & 1.8676 \\ 2.5218 & 5.0436 & 0.5354 & 1 \end{pmatrix},$$

Example 0.575.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/5 \\ 1/2 & 1 & 1/9 & 1/5 \\ 3 & 9 & 1 & 1/3 \\ 5 & 5 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2508, \quad CR = 0.0946$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.100559 \\ 0.058720 \\ 0.309814 \\ 0.530906 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7125 & 0.3246 & 0.1894 \\ 0.5839 & 1 & 0.1895 & 0.1106 \\ 3.0809 & 5.2761 & 1 & 0.5836 \\ 5.2795 & 9.0413 & 1.7136 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.102992 \\ 0.058561 \\ 0.308976 \\ 0.529470 \end{pmatrix} = 0.997296 \cdot \begin{pmatrix} 0.103271 \\ 0.058720 \\ 0.309814 \\ 0.530906 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7587 & 1/3 & 0.1945 \\ 0.5686 & 1 & 0.1895 & 0.1106 \\ 3 & 5.2761 & 1 & 0.5836 \\ 5.1409 & 9.0413 & 1.7136 & 1 \end{pmatrix},$$

Example 0.576.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/5 \\ 1/2 & 1 & 1/9 & 1/6 \\ 3 & 9 & 1 & 3 \\ 5 & 6 & 1/3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.105662 \\ 0.050792 \\ 0.530651 \\ 0.312896 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 2.0803 & 0.1991 & 0.3377 \\ 0.4807 & 1 & 0.0957 & 0.1623 \\ 5.0222 & 10.4476 & 1 & 1.6959 \\ 2.9613 & 6.1604 & 0.5896 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.105518 \\ 0.052079 \\ 0.529932 \\ 0.312471 \end{pmatrix} = 0.998642 \cdot \begin{pmatrix} 0.105662 \\ 0.052149 \\ 0.530651 \\ 0.312896 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0261 & 0.1991 & 0.3377 \\ 0.4936 & 1 & 0.0983 & 1/6 \\ 5.0222 & 10.1756 & 1 & 1.6959 \\ 2.9613 & 6 & 0.5896 & 1 \end{pmatrix},$$

Example 0.577.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/5 \\ 1/2 & 1 & 1/9 & 1/6 \\ 3 & 9 & 1 & 1/3 \\ 5 & 6 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1966, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.099629 \\ 0.054420 \\ 0.303309 \\ 0.542642 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8308 & 0.3285 & 0.1836 \\ 0.5462 & 1 & 0.1794 & 0.1003 \\ 3.0444 & 5.5735 & 1 & 0.5589 \\ 5.4466 & 9.9714 & 1.7891 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.100954 \\ 0.054340 \\ 0.302862 \\ 0.541844 \end{pmatrix} = 0.998528 \cdot \begin{pmatrix} 0.101103 \\ 0.054420 \\ 0.303309 \\ 0.542642 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.8578 & 1/3 & 0.1863 \\ 0.5383 & 1 & 0.1794 & 0.1003 \\ 3 & 5.5735 & 1 & 0.5589 \\ 5.3672 & 9.9714 & 1.7891 & 1 \end{pmatrix},$$

Example 0.578.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/5 \\ 1/2 & 1 & 1/9 & 1/7 \\ 3 & 9 & 1 & 1/3 \\ 5 & 7 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1583, \quad CR = 0.0597$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.098763 \\ 0.051097 \\ 0.297726 \\ 0.552414 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9328 & 0.3317 & 0.1788 \\ 0.5174 & 1 & 0.1716 & 0.0925 \\ 3.0146 & 5.8267 & 1 & 0.5390 \\ 5.5934 & 10.8111 & 1.8554 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.099194 \\ 0.051073 \\ 0.297584 \\ 0.552149 \end{pmatrix} = 0.999521 \cdot \begin{pmatrix} 0.099242 \\ 0.051097 \\ 0.297726 \\ 0.552414 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9422 & 1/3 & 0.1797 \\ 0.5149 & 1 & 0.1716 & 0.0925 \\ 3 & 5.8267 & 1 & 0.5390 \\ 5.5663 & 10.8111 & 1.8554 & 1 \end{pmatrix},$$

Example 0.579.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/6 \\ 1/2 & 1 & 1/8 & 1/7 \\ 3 & 8 & 1 & 1/3 \\ 6 & 7 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1317, \quad CR = 0.0496$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.093982 \\ 0.052327 \\ 0.284309 \\ 0.569382 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7961 & 0.3306 & 0.1651 \\ 0.5568 & 1 & 0.1840 & 0.0919 \\ 3.0251 & 5.4333 & 1 & 0.4993 \\ 6.0584 & 10.8812 & 2.0027 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.094695 \\ 0.052286 \\ 0.284085 \\ 0.568934 \end{pmatrix} = 0.999214 \cdot \begin{pmatrix} 0.094770 \\ 0.052327 \\ 0.284309 \\ 0.569382 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.8111 & 1/3 & 0.1664 \\ 0.5521 & 1 & 0.1840 & 0.0919 \\ 3 & 5.4333 & 1 & 0.4993 \\ 6.0081 & 10.8812 & 2.0027 & 1 \end{pmatrix},$$

Example 0.580.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/6 \\ 1/2 & 1 & 1/8 & 1/8 \\ 3 & 8 & 1 & 1/3 \\ 6 & 8 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.092993 \\ 0.049525 \\ 0.279648 \\ 0.577834 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8777 & 0.3325 & 0.1609 \\ 0.5326 & 1 & 0.1771 & 0.0857 \\ 3.0072 & 5.6466 & 1 & 0.4840 \\ 6.2137 & 11.6676 & 2.0663 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.093195 \\ 0.049514 \\ 0.279586 \\ 0.577705 \end{pmatrix} = 0.999777 \cdot \begin{pmatrix} 0.093216 \\ 0.049525 \\ 0.279648 \\ 0.577834 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.8822 & 1/3 & 0.1613 \\ 0.5313 & 1 & 0.1771 & 0.0857 \\ 3 & 5.6467 & 1 & 0.4840 \\ 6.1989 & 11.6676 & 2.0663 & 1 \end{pmatrix},$$

Example 0.581.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/6 \\ 1/2 & 1 & 1/9 & 1/7 \\ 3 & 9 & 1 & 1/3 \\ 6 & 7 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1571, \quad CR = 0.0593$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.092629 \\ 0.050509 \\ 0.291677 \\ 0.565185 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8339 & 0.3176 & 0.1639 \\ 0.5453 & 1 & 0.1732 & 0.0894 \\ 3.1489 & 5.7747 & 1 & 0.5161 \\ 6.1016 & 11.1898 & 1.9377 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.094050 \\ 0.050430 \\ 0.291220 \\ 0.564300 \end{pmatrix} = 0.998433 \cdot \begin{pmatrix} 0.094198 \\ 0.050509 \\ 0.291677 \\ 0.565185 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.8650 & 0.3230 & 1/6 \\ 0.5362 & 1 & 0.1732 & 0.0894 \\ 3.0964 & 5.7747 & 1 & 0.5161 \\ 6 & 11.1898 & 1.9377 & 1 \end{pmatrix},$$

Example 0.582.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/6 \\ 1/2 & 1 & 1/9 & 1/8 \\ 3 & 9 & 1 & 1/3 \\ 6 & 8 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1263, \quad CR = 0.0476$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.091744 \\ 0.047803 \\ 0.286818 \\ 0.573635 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9192 & 0.3199 & 0.1599 \\ 0.5210 & 1 & 0.1667 & 0.0833 \\ 3.1263 & 6.0000 & 1 & 0.5000 \\ 6.2526 & 12.0000 & 2.0000 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.095238 \\ 0.047619 \\ 0.285714 \\ 0.571429 \end{pmatrix} = 0.996152 \cdot \begin{pmatrix} 0.095606 \\ 0.047803 \\ 0.286818 \\ 0.573635 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2.0000 & 0.3333 & 1/6 \\ 0.5000 & 1 & 0.1667 & 0.0833 \\ 3.0000 & 6.0000 & 1 & 0.5000 \\ 6 & 12.0000 & 2.0000 & 1 \end{pmatrix},$$

Example 0.583.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/6 \\ 1/2 & 1 & 1/9 & 1/9 \\ 3 & 9 & 1 & 1/3 \\ 6 & 9 & 3 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1031, \quad CR = 0.0389$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.090919 \\ 0.045568 \\ 0.282473 \\ 0.581040 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.9952 & 0.3219 & 0.1565 \\ 0.5012 & 1 & 0.1613 & 0.0784 \\ 3.1069 & 6.1989 & 1 & 0.4862 \\ 6.3907 & 12.7509 & 2.0570 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.091117 \\ 0.045559 \\ 0.282411 \\ 0.580913 \end{pmatrix} = 0.999782 \cdot \begin{pmatrix} 0.091137 \\ 0.045568 \\ 0.282473 \\ 0.581040 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 2 & 0.3226 & 0.1569 \\ 1/2 & 1 & 0.1613 & 0.0784 \\ 3.0994 & 6.1989 & 1 & 0.4862 \\ 6.3755 & 12.7509 & 2.0570 & 1 \end{pmatrix},$$

Example 0.584.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/7 \\ 1/2 & 1 & 1/9 & 1/7 \\ 3 & 9 & 1 & 1/4 \\ 7 & 7 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2359, \quad CR = 0.0890$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.083694 \\ 0.048685 \\ 0.259943 \\ 0.607679 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7191 & 0.3220 & 0.1377 \\ 0.5817 & 1 & 0.1873 & 0.0801 \\ 3.1059 & 5.3393 & 1 & 0.4278 \\ 7.2608 & 12.4820 & 2.3377 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.086392 \\ 0.048541 \\ 0.259177 \\ 0.605889 \end{pmatrix} = 0.997054 \cdot \begin{pmatrix} 0.086648 \\ 0.048685 \\ 0.259943 \\ 0.607679 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7798 & 1/3 & 0.1426 \\ 0.5619 & 1 & 0.1873 & 0.0801 \\ 3 & 5.3393 & 1 & 0.4278 \\ 7.0132 & 12.4820 & 2.3377 & 1 \end{pmatrix},$$

Example 0.585.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/7 \\ 1/2 & 1 & 1/9 & 1/8 \\ 3 & 9 & 1 & 1/4 \\ 7 & 8 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1964, \quad CR = 0.0741$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.082884 \\ 0.045925 \\ 0.255276 \\ 0.615914 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8048 & 0.3247 & 0.1346 \\ 0.5541 & 1 & 0.1799 & 0.0746 \\ 3.0799 & 5.5585 & 1 & 0.4145 \\ 7.4310 & 13.4112 & 2.4127 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.084905 \\ 0.045824 \\ 0.254714 \\ 0.614557 \end{pmatrix} = 0.997798 \cdot \begin{pmatrix} 0.085092 \\ 0.045925 \\ 0.255276 \\ 0.615914 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.8528 & 1/3 & 0.1382 \\ 0.5397 & 1 & 0.1799 & 0.0746 \\ 3 & 5.5585 & 1 & 0.4145 \\ 7.2382 & 13.4112 & 2.4127 & 1 \end{pmatrix},$$

Example 0.586.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/7 \\ 1/2 & 1 & 1/9 & 1/9 \\ 3 & 9 & 1 & 1/4 \\ 7 & 9 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1658, \quad CR = 0.0625$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.082139 \\ 0.043655 \\ 0.251148 \\ 0.623057 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8815 & 0.3271 & 0.1318 \\ 0.5315 & 1 & 0.1738 & 0.0701 \\ 3.0576 & 5.7530 & 1 & 0.4031 \\ 7.5854 & 14.2722 & 2.4808 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.083584 \\ 0.043587 \\ 0.250753 \\ 0.622076 \end{pmatrix} = 0.998426 \cdot \begin{pmatrix} 0.083716 \\ 0.043655 \\ 0.251148 \\ 0.623057 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.9177 & 1/3 & 0.1344 \\ 0.5215 & 1 & 0.1738 & 0.0701 \\ 3 & 5.7530 & 1 & 0.4031 \\ 7.4425 & 14.2722 & 2.4808 & 1 \end{pmatrix},$$

Example 0.587.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/8 \\ 1/2 & 1 & 1/8 & 1/9 \\ 3 & 8 & 1 & 1/4 \\ 8 & 9 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1403, \quad CR = 0.0529$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.079261 \\ 0.044680 \\ 0.240167 \\ 0.635892 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7740 & 0.3300 & 0.1246 \\ 0.5637 & 1 & 0.1860 & 0.0703 \\ 3.0301 & 5.3753 & 1 & 0.3777 \\ 8.0228 & 14.2323 & 2.6477 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.079469 \\ 0.044669 \\ 0.240114 \\ 0.635748 \end{pmatrix} = 0.999775 \cdot \begin{pmatrix} 0.079486 \\ 0.044680 \\ 0.240167 \\ 0.635892 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7790 & 0.3310 & 1/8 \\ 0.5621 & 1 & 0.1860 & 0.0703 \\ 3.0215 & 5.3753 & 1 & 0.3777 \\ 8 & 14.2323 & 2.6477 & 1 \end{pmatrix},$$

Example 0.588.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/8 \\ 1/2 & 1 & 1/9 & 1/8 \\ 3 & 9 & 1 & 1/5 \\ 8 & 8 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2637, \quad CR = 0.0994$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.075634 \\ 0.044309 \\ 0.231456 \\ 0.648601 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7070 & 0.3268 & 0.1166 \\ 0.5858 & 1 & 0.1914 & 0.0683 \\ 3.0602 & 5.2237 & 1 & 0.3569 \\ 8.5755 & 14.6382 & 2.8023 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.077035 \\ 0.044242 \\ 0.231106 \\ 0.647617 \end{pmatrix} = 0.998482 \cdot \begin{pmatrix} 0.077152 \\ 0.044309 \\ 0.231456 \\ 0.648601 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7412 & 1/3 & 0.1190 \\ 0.5743 & 1 & 0.1914 & 0.0683 \\ 3 & 5.2237 & 1 & 0.3569 \\ 8.4068 & 14.6382 & 2.8023 & 1 \end{pmatrix},$$

Example 0.589.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/8 \\ 1/2 & 1 & 1/9 & 1/9 \\ 3 & 9 & 1 & 1/4 \\ 8 & 9 & 4 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.1664, \quad CR = 0.0627$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.078190 \\ 0.043179 \\ 0.246702 \\ 0.631929 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.8109 & 0.3169 & 0.1237 \\ 0.5522 & 1 & 0.1750 & 0.0683 \\ 3.1551 & 5.7135 & 1 & 0.3904 \\ 8.0819 & 14.6352 & 2.5615 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.078928 \\ 0.043144 \\ 0.246505 \\ 0.631423 \end{pmatrix} = 0.999198 \cdot \begin{pmatrix} 0.078991 \\ 0.043179 \\ 0.246702 \\ 0.631929 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.8294 & 0.3202 & 1/8 \\ 0.5466 & 1 & 0.1750 & 0.0683 \\ 3.1232 & 5.7135 & 1 & 0.3904 \\ 8 & 14.6352 & 2.5615 & 1 \end{pmatrix},$$

Example 0.590.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/8 \\ 1/2 & 1 & 1/9 & 1/9 \\ 3 & 9 & 1 & 1/5 \\ 8 & 9 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2267, \quad CR = 0.0855$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.074941 \\ 0.042019 \\ 0.227506 \\ 0.655533 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7835 & 0.3294 & 0.1143 \\ 0.5607 & 1 & 0.1847 & 0.0641 \\ 3.0358 & 5.4143 & 1 & 0.3471 \\ 8.7473 & 15.6007 & 2.8814 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.075768 \\ 0.041982 \\ 0.227303 \\ 0.654947 \end{pmatrix} = 0.999107 \cdot \begin{pmatrix} 0.075835 \\ 0.042019 \\ 0.227506 \\ 0.655533 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.8048 & 1/3 & 0.1157 \\ 0.5541 & 1 & 0.1847 & 0.0641 \\ 3 & 5.4143 & 1 & 0.3471 \\ 8.6441 & 15.6007 & 2.8814 & 1 \end{pmatrix},$$

Example 0.591.

$$\mathbf{A} = \begin{pmatrix} 1 & 2 & 1/3 & 1/9 \\ 1/2 & 1 & 1/9 & 1/9 \\ 3 & 9 & 1 & 1/5 \\ 9 & 9 & 5 & 1 \end{pmatrix}, \quad \lambda_{\max} = 4.2277, \quad CR = 0.0859$$

$$\mathbf{w}^{EM} = \begin{pmatrix} 0.071729 \\ 0.041633 \\ 0.223825 \\ 0.662813 \end{pmatrix}$$

$$\left[\frac{w_i^{EM}}{w_j^{EM}} \right] = \begin{pmatrix} 1 & 1.7229 & 0.3205 & 0.1082 \\ 0.5804 & 1 & 0.1860 & 0.0628 \\ 3.1204 & 5.3761 & 1 & 0.3377 \\ 9.2406 & 15.9204 & 2.9613 & 1 \end{pmatrix},$$

$$\mathbf{w}' = \begin{pmatrix} 0.073505 \\ 0.041553 \\ 0.223397 \\ 0.661545 \end{pmatrix} = 0.998087 \cdot \begin{pmatrix} 0.073646 \\ 0.041633 \\ 0.223825 \\ 0.662813 \end{pmatrix},$$

$$\left[\frac{w'_i}{w'_j} \right] = \begin{pmatrix} 1 & 1.7689 & 0.3290 & 1/9 \\ 0.5653 & 1 & 0.1860 & 0.0628 \\ 3.0392 & 5.3762 & 1 & 0.3377 \\ 9 & 15.9204 & 2.9613 & 1 \end{pmatrix},$$