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Contoh kasus :
"Sebuah Perusahaan ingin memilih karyawan terbaik untuk menduduki posisi manager"

* Alternatif
1. karyawan kerja
2. keterampilan
3. komunikasi
4. kreatifitas
5. kemandirian.

* kriteria.
1. Pengalaman kerja : 0.25
2. keterampilan : 0.2
3. komunikasi : 0.15
4. kreatifitas : 0.25
5. kemandirian : 0.15

*

	C1	C2	C3	C4	C5
karyawan A	7	5	8	7	8
karyawan B	8	7	6	6	5
karyawan C	6	7	5	8	6
karyawan D	6	6	8	7	6
karyawan E	7	8	4	5	7
karyawan F	9	7	7	5	6

$X_1 = \sqrt{7^2 + 8^2 + 6^2 + 6^2 + 6^2 + 7^2 + 9^2} = \sqrt{351} = 18.73$

$r_{11} = 7/18.77 = 0.37$ $r_{61} = 7/18.73 = 0.37$
$r_{21} = 8/18.73 = 0.42$ $r_{71} = 9/18.77 = 0.48$
$r_{31} = 6/18.73 = 0.32$
$r_{41} = 6/18.73 = 0.32$
$r_{51} = 6/18.73 = 0.32$

$X_2 = \sqrt{5^2 + 7^2 + 7^2 + 6^2 + 8^2 + 7^2} = \sqrt{272} = 16.49$

$\Rightarrow R_{12} = 5/16.49 = 0.30 \quad R_{42} = 6/16.49 = 0.36$

$R_{22} = 7/16.49 = 0.42 \quad R_{52} = 8/16.49 = 0.48$

$R_{32} = 7/16.44 = 0.42 \quad R_{62} = 7/16.49 \sim 0.42$

$X_3 = \sqrt{8^2 + 6^2 + 5^2 + 8^2 + 4^2 + 7^2} = \sqrt{254} = 15.93$

$\Rightarrow R_{13} = 8/15.93 = 0.48 \quad R_{43} = 8/15.91 = 0.50$

$R_{23} = 6/15.93 = 0.37 \quad R_{53} = 4/15.93 = 0.25$

$R_{33} = 5/15.93 = 0.31 \quad R_{63} = 7/15.97 = 0.43$

$X_4 = \sqrt{7^2 + 6^2 + 8^2 + 7^2 + 5^2 + 5^2} = \sqrt{248} = 15.74.$

$\Rightarrow R_{14} = 7/15.74 = 0.44 \quad R_{44} = 7/15.74 = 0.44$

$R_{24} = 6/15.74 = 0.38 \quad R_{54} = 5/15.74 = 0.31$

$R_{34} = 8/15.74 = 0.50 \quad R_{64} = 5/15.74 = 0.31$

$X_5 = \sqrt{8^2 + 5^2 + 6^2 + 6^2 + 7^2 + 6^2} = \sqrt{246} = 15.68$

$\Rightarrow R_{15} = 8/15.68 = 0.51 \quad R_{45} = 6/15.68 = 0.38$

$R_{25} = 5/15.68 = 0.31 \quad R_{55} = 7/15.68 = 0.44$

$R_{35} = 6/15.68 = 0.38 \quad R_{65} = 4/15.68 = 0.25$

$W = \begin{bmatrix} 0.25 & 0.2 & 0.15 & 0.25 & 0.15 \end{bmatrix}$

$R = \begin{bmatrix} 0.37 & 0.30 & 0.48 & 0.44 & 0.51 \\ 0.42 & 0.42 & 0.37 & 0.38 & 0.31 \\ 0.32 & 0.42 & 0.31 & 0.50 & 0.38 \\ 0.72 & 0.36 & 0.50 & 0.44 & 0.78 \\ 0.37 & 0.48 & 0.25 & 0.31 & 0.44 \\ 0.48 & 0.42 & 0.43 & 0.31 & 0.38 \end{bmatrix}$

$y = \begin{bmatrix} 0.09 & 0.06 & 0.072 & 0.11 & 0.07 \\ 0.105 & 0.084 & 0.055 & 0.09 & 0.04 \\ 0.08 & 0.084 & 0.046 & 0.12 & 0.05 \\ 0.08 & 0.072 & 0.075 & 0.11 & 0.05 \\ 0.09 & 0.096 & 0.037 & 0.07 & 0.06 \\ 0.12 & 0.084 & 0.064 & 0.09 & 0.05 \end{bmatrix}$