söndag 3 mars 2024 23:0

$$\begin{array}{lll}
& 5.148 + 5.149 \\
& \lambda_{ij} \times_{i} \times_{j} + \lambda_{ji} \times_{j} \times_{i} = (\lambda_{ij} + \lambda_{ji}) \times_{i} \times_{j} \\
& A = \begin{pmatrix} -1 & 3 & 2 \\ 1 & 2 & 4 \end{pmatrix}
\end{array}$$

$$X^{T}AX = \begin{pmatrix} x_{1} \times_{2} \times_{3} \end{pmatrix} \begin{pmatrix} -1 & -1 & \frac{1}{2} \\ -1 & 3 & 2 \\ \frac{1}{2} & 2 & 4 \end{pmatrix} \begin{pmatrix} x_{1} \\ x_{2} \\ x_{3} \end{pmatrix}$$

$$k_{12} = 1 \qquad k_{23} = 1 \qquad k_{31} = 1$$

$$k_{12} = \frac{1}{2} = k_{32} \qquad k_{31} = \frac{1}{2} = k_{32} \qquad k_{31} = \frac{1}{2} = k_{32}$$

$$A = \begin{pmatrix} 0/2 & 1/2 \\ 1/2 & 0 & 1/2 \\ 1/2 & 1/2 & 0 \end{pmatrix}$$