

# The Quadratic Assignment Problem (QAP)

We resorted the matrix

$$D = \begin{matrix} & \begin{matrix} A & B & C \end{matrix} \\ \begin{matrix} A \\ B \\ C \end{matrix} & \begin{bmatrix} 0 & 1 & 2 \\ 1 & 0 & 1 \\ 3 & 1 & 0 \end{bmatrix} \end{matrix}$$

such that row and columns appear the following sequence

1  $\rightarrow$  C, 2  $\rightarrow$  A and 3  $\rightarrow$  B, i.e C, A, B

(it is advisable to perform the resorting in 2 steps: first rows than columns or the other way round)

$$D = \begin{matrix} & \begin{matrix} A & B & C \end{matrix} \\ \begin{matrix} A \\ B \\ C \end{matrix} & \begin{bmatrix} 0 & 1 & 2 \\ 1 & 0 & 1 \\ 3 & 1 & 0 \end{bmatrix} \end{matrix} \rightarrow D = \begin{matrix} & \begin{matrix} C & A & B \end{matrix} \\ \begin{matrix} A \\ B \\ C \end{matrix} & \begin{bmatrix} 2 & 0 & 1 \\ 1 & 1 & 0 \\ 0 & 3 & 1 \end{bmatrix} \end{matrix} \rightarrow D = \begin{matrix} & \begin{matrix} C & A & B \end{matrix} \\ \begin{matrix} C \\ A \\ B \end{matrix} & \begin{bmatrix} 0 & 3 & 1 \\ 2 & 0 & 1 \\ 1 & 1 & 0 \end{bmatrix} \end{matrix}$$

# Quadratic Assignment And Related Problems

**Shi, Yuhui**



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