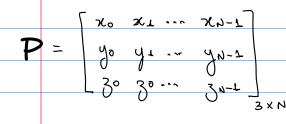
Squared Euclidean Distance Matrix (SEDM)

 $(\kappa_i, g_i, 3_i)$

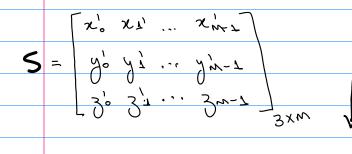
jth source point

Observation points matrix



Source points matrix

Squared Euclidean Distance Matrix (SEDM)

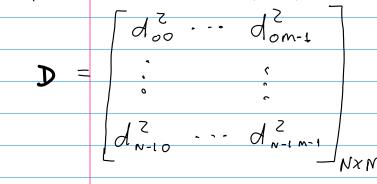


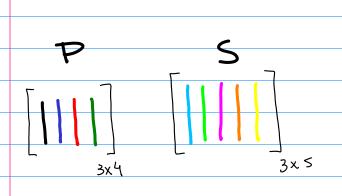
Squared Euclidean distance

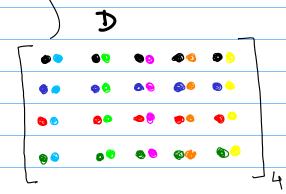
$$d_{i}^{z} = (z_{i} - x_{i}^{z}) + (y_{i} - y_{i}^{z})^{2} + (z_{i} - y_{i}^{z})^{2}$$

$$i = 0, ..., N-1 \quad j = 0, ..., M-1$$

$$di_{i}^{2} = (\chi_{i} - \chi_{i}^{2})^{2} + (\chi_{i} - \chi_{i}^{2})^{2} + (\chi_{i} - \chi_{i}^{2})^{2} + (\chi_{i} - \chi_{i}^{2})^{2}$$







$$\frac{d_{i}}{d_{i}} = (x_{i} - x_{i}) + (y_{i} - y_{i}) + (z_{i} - z_{i})$$

$$= (x_{i} - x_{i}) + (y_{i} - y_{i}) + (y_{i} - z_{i} - y_{i}) + (y_{i} - z_{i} - z_{i}) + (y_{i} - z_{i} - z_{i} - z_{i})$$

$$= (x_{i} + y_{i} + z_{i}) + (x_{i} + y_{i} + z_{i}) - 2(x_{i} + y_{i} + y_{i} + z_{i})$$

$$= (x_{i} + y_{i} + z_{i}) + (x_{i} + y_{i} + z_{i}) - 2(x_{i} + y_{i} + z_{i}) + (z_{i} + z_{i} + z_{i})$$

$$P_{i} = P_{i}^{T}P_{i} + S_{i}^{T}S_{i} - 2P_{i}^{T}S_{i}$$

$$P_{i} = \begin{bmatrix} x_{i} \\ y_{i} \\ y_{i} \\ y_{i} \end{bmatrix}$$

$$S_{i} = \begin{bmatrix} x_{i} \\ y_{i} \\ y_{i} \\ y_{i} \end{bmatrix}$$

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$$S_{i$$