Loss functions

name	formula
symm bounded	$F_{sb} = \sum_{i=1}^{n} \sum_{j=1}^{n_i} \frac{w_{ij}^0}{n_i} \frac{(d_{ij} - p_{ij})^2}{d_i^2 + p_i^2}$
symm unbounded	$F_{ub} = \sum_{i=1}^{n} \sum_{j=1}^{n_i} \frac{w_{ij}^0}{n_i} (d_{ij} - p_{ij})^2 (d_i^{-2} + p_i^{-2})$
relative error	$F_{re} = \sum_{i=1}^{n} \sum_{j=1}^{n_i} \frac{w_{ij}^0}{n_i} \frac{(d_{ij} - p_{ij})^2}{d_i^2}$
symm mean abs error	$F_{SMAE} = 2\sum_{i=1}^{n} \sum_{j=1}^{n_i} \frac{w_{ij}^0}{n_i} \frac{ d_{ij} - p_{ij} }{ d_{ij} + p_{ij} }$

$$w_{ij}^0 = 1$$
(by default); $d_i = \frac{1}{n_i} \sum_{j=1}^{n_i} d_{ij}$; $p_i = \frac{1}{n_i} \sum_{j=1}^{n_i} p_{ij}$