INPUTS: experimental time series of concentrations

Time-lagged correlation between time series → Interspecies distances

Every dimensionality D that produce a tolerable values of the stress function is accepted.

Non metric multidimensional scaling (MDS): determination of spatial coordinates of the species in D-dimensionals space

D > 3?

Yes → Temporal ordering of the correlations: determination of the arcs directionality

No → Thresholding on the MDS-estimated distances distribution

Thresholding of the interspecies distances

OUTPUT: list of reactions

Network calibration via probabilistic parameter inference for cutting eventual false positive arcs

Figure 1:
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Thresholding of the interspecies distances

Figure 1: