

LOW DIMENSIONAL EMBEDDINGS OF SYMBOLIC DATASETS

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Numerous data analysis and data mining techniques require data to be embedded in a Euclidean space. When faced with symbolic datasets, however, conventional embedding approaches may be too high dimensional or coarse-grained to learn from the data effectively, or may have to be recomputed from scratch when faced with new, unclassified data. To overcome these issues we amend the graph-theoretic notion of "metric dimension" to that of "multilateration."