

Topology and Data

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Abstract: It has been shown in recent years that topological methods and concepts can be generalized into the world of "point clouds", i.e. finite metric spaces. These objects come up frequently in the analysis of data from many diverse sources, which suggests that the generalizations of topological methods should be used as one tool in the analysis of such data. In this talk, we will discuss various examples of the extensions and their application to the analysis of data sets.