

Computation, Metrics and Topology for Data Analysis

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The main focus of the CoMeT project is on the design of computational methods for the analysis of point-cloud data, using tools from metric geometry and algebraic topology. Our aim is to develop efficient algorithms to extract structural information from such data, and down the road to get a higher-level informative understanding of the spaces it originates from. My talk will illustrate this claim through some recent contributions made by the members of our associated team.