Prof. Dr. Jürgen Jost

Max-Planck-Institut für Mathematik in den Naturwissenschaften in Leipzig

Generalized Curvatures and the Geometry of Data

Abstract: Curvature is the most important concept of Riemannian geometry, and it has been extended to metric spaces. Here, I shall develop a notion of curvature that also applies to discrete spaces (as occurring as data samples), links curvature to the concept of hyperconvexity and offers a geometric view on topological data analysis.