

Special Issue

Topological Data Analysis

Message from the Guest Editor

We invite you to submit your latest research in the area of applied and computational topology to this Special Issue, “Topological Data Analysis”. We are looking for new and innovative approaches to use methods from algebraic topology in data analysis, statistics, and machine learning. This Special Issue is intended to feature a balance between theoretical developments in topological data analysis and practical applications. Topics include but are not limited to persistence theory, multidimensional persistence, design of filtered simplicial complexes from data, summaries of persistence modules, design of new algorithms to efficiently use topological insights in data science applications, as well as a broad spectrum of applications of topological methods in robotics, biology, medicine, and social sciences.

Guest Editor

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Deadline for manuscript submissions

closed (15 November 2020)



Algorithms

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About the Journal

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Editor-in-Chief

Prof. Dr. Frank Werner

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