

Special Issue

Statistical Modeling for Analyzing Data with Complex Structures

Message from the Guest Editor

Big Data challenges have been observed in recent years in various fields including medicine, public health, epidemiology, social science, economics, and finance. Typically, the datasets are of complex structure, since they are collected from multiple sources (multiple sites, cities, or countries) and different domains (Euclidean space, functional space, or Riemannian manifold). Drawing insights from such large and complex datasets require new statistical modeling tools and the expertise from statistical computing and data science. This Special Issue of Mathematics is dedicated to collecting papers on cutting-edge methodological developments and unique applications for analyzing studies with complex data structures. Contributions proposing advanced statistical models to deal with Big Data with messy sources and/or nonstandard domains are welcome. Topics of interest include but are not limited to the following: Big Data integration, functional data analysis, manifold data analysis, tensor data analysis, shape data analysis, time series data analysis, and applications in health sciences and social sciences.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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