

Special Issue

Mathematical and Computational Modeling of Language and Social Behaviors

Message from the Guest Editors

Computational, mathematical, and quantitative linguistics are three branches of language sciences that employ mathematical models. Natural language processing (NLP) on the other hand, is the computational application of such language modeling. With the maturity of machine learning and accessibility of internet data as a record of human activities, NLP recently made significant progress in areas such as Sentiment and/or Emotion Analysis, and fake news detection. In addition, NLP has been adopted in areas with immediate societal impacts such as in the Financial domain and Medical Informatics. All these developments involve internet language big data-driven computational modeling of collective human behaviors and decisions that lead to NLP tools to help resolve the grand challenges of our time. The purpose of this Special Issue is to highlight the contributions of quantitative modeling and NLP technology to understanding collective human behaviors and to help resolve some of the greatest challenges of our time. We welcome new or improved methods to model linked data from heterogeneous sources and their computational application to solve real-world problems.

Guest Editors

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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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