Special Issue

Data Mining Algorithms and Mathematical Models for Social Network Analysis

Message from the Guest Editor

This Special Issue focuses on the intersection of data mining algorithms and mathematical models tailored for social network analysis, aiming to advance our understanding of complex relational data. We invite contributions on new approaches or techniques for addressing challenges such as community detection, influence propagation, fake news detection, and dynamic network modeling. Topics of interest include, but are not limited to, machine learning approaches for social network analysis, mathematical modeling of network evolution, graph-based algorithms for social network data, and applications in domains such as fake news detection, recommendation systems, echo chambers, and the science of science. By bridging theoretical advancements with practical applications, this Special Issue will foster interdisciplinary collaboration and highlight innovative solutions that push the boundaries of social network analysis. We welcome research that not only addresses computational challenges but also explores novel methodologies to extract meaningful insights from ever-growing and interconnected datasets.

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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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