Special Issue

Mathematical Models and Methods in Computational Social Science

Message from the Guest Editors

Advanced mathematical models and methods are playing an increasingly critical role in computational social science by offering rigorous frameworks for analyzing the complex dynamics of social systems. Nonetheless, a gap often exists between state-of-the-art mathematical approaches and their broader application in social research, especially among scholars without formal mathematical training. The aim of this Special Issue is to help bridge this divide by showcasing the potential of novel mathematical techniques across diverse areas of computational social science. We invite contributions that highlight innovative modeling and methodological advancements in topics such as social networks, agent-based modeling, text mining, big data analytics, public policy evaluation, social influence, opinion dynamics, and behavioral economics. Submissions emphasizing cross-disciplinary collaboration, empirical validation, and actionable insights are especially welcome. We look forward to your submissions, which will help illuminate the transformative power of mathematical methods in driving new discoveries and practical applications within computational social science.

Guest Editors

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Deadline for manuscript submissions

30 September 2025

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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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