

Special Issue

Mathematical and Computational Models of Cognition, 2nd Edition

Message from the Guest Editor

One of the ultimate goals of Cognitive Science is to discover the mathematical laws and computational processes that govern human behavior and the human mind, as well as to achieve this with the systematicity and rigor that are found in the physical sciences.

Mathematical and computational modeling are key tools in accomplishing this lofty goal. This Special Issue has two aims. The first is to collate papers that propose, apply, and/or test mathematical and computational models of any of the following cognitive capacities. The second aim is to inform and motivate mathematicians from different fields of mathematics to engage in cognitive modeling. Contributions may involve any style of mathematical and computational modeling, whether deterministic or probabilistic, providing that the approach is accompanied by a plausible cognitive mechanism and adequate theory development. In addition, contributions may focus on methodological (or metamodeling theory) techniques in the form of new model-testing methods or programming tools that are designed to facilitate model construction and/or testing if these are grounded in mathematical theory.

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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