



Special Issue on Approximation Theory and Applications

Call for Papers

In mathematics, approximation theory is concerned with how functions can best be approximated with simpler functions, and with quantitatively characterizing the errors introduced thereby. Note that what is meant by best and simpler will depend on the application. Approximation algorithm is an algorithm to solve an optimization problem that runs in polynomial time in the length of the input and outputs a solution that is guaranteed to be close to the optimal solution

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on **approximation theory and applications**. Potential topics include, but are not limited to:

- Approximation and computation
- Function approximation
- Statistical approximation
- Nonlinear approximation
- Algebraic methods
- Fourier analysis
- Estimation theory
- Numerical analysis
- Multivariate approximation
- Interpolation and polynomial approximation
- Multidimensional problems
- Quantum approximate optimization algorithm
- Approximation methods in science and engineering

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).

Please kindly notice that the “**Special Issue**” under your manuscript title is supposed to be specified and the research field “**Special Issue – Approximation Theory and Applications**” should be chosen during your submission.

According to the following timetable:

Submission Deadline	September 27th, 2022
Publication Date	November 2022



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