Special Issue

Surrogate Modeling and Related Methods in Science and Engineering

Message from the Guest Editor

Surrogate modeling (SM) has emerged as a fundamental tool in pure and applied research, through the development of computationally tractable and reasonably accurate models that are able to replace the original time-consuming physical models. Surrogate models are currently employed for design automation, parametric studies, design space exploration, optimization, and sensitivity analysis in different fields of applied physics and engineering. The purpose of this Special Issue is to gather a collection of articles reflecting the latest developments in surrogate modeling and related fields of applications. Keywords

- Design of experiments
- Data fit surrogate models
- Reduced-order surrogate models
- Hybrid surrogate models
- Surrogate-based optimization
- Multifidelity surrogate models
- Forward and inverse surrogate modeling.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2021)

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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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