Computational Mathematics and Its Applications in Numerical Analysis

Guest Editors:

Prof. Dr. Shufei Wu
Department of Statistics,
Tamkang University, Taipei
251301, Taiwan

Prof. Dr. Shou-Fu Tian
School of Mathematics, China
University of Mining and
Technology, Xuzhou 221116,
China

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Message from the Guest Editors

Computational mathematics has became increasingly significant across diverse fields in science and engineering. This Special Issue aims to showcase recent research findings in computational mathematics and advanced numerical methods. The publication will encompass original and survey papers delving into analysis, modeling, control, and optimization. Contributions employing advanced computational mathematics and numerical methods, with applications spanning various realms of science, technology, engineering, and related disciplines, are encouraged and warmly welcomed.

Potential topics include, but are not limited to, the following:

- Computational mathematics for data science;
- Applied mathematics in optimization problems;
- Signal processing and mathematical images;
- Scientific computing and algorithms;
- Numerical analysis for problems arising in various fields.

Special Issue

Editor-in-Chief

Prof. Dr. Sergei D. Odintsov
1. Institució Catalana de Recerca i Estudis Avançats (ICREA), Passeig Luis Companys, 23, 08010 Barcelona, Spain
2. Institute of Space Sciences (ICE-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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