Special Issue

Advanced Numerical Analysis and Scientific Computing

Message from the Guest Editors

This Special Issue will present recent research results in advanced numerical analysis and scientific computing. Original papers on the production, analysis, and computational performance of new methods of all areas of digital twins' creation, numerical analysis, and scientific computing are welcome. We welcome papers on, but not limited to, the following:
Scientific computing and algorithms in applications in the sciences (computational physics, computational chemistry, computational bioinformatics, computational engineering, etc.);
Mathematical modeling (including, but not limited to, mathematical modeling of engineering and environmental manufacturing processes, industrial systems, heat transfer, fluid mechanics, CFD, and transport phenomena);
Numerical problems in dynamical systems, numerical analysis of ODEs, PDEs, and systems;
Fuzzy sets and systems, fuzzy logic, description logics, fuzzy ontologies in scientific computing;
Mathematical methods with applications in many artificial intelligences;
Neural networks in numerical analysis and scientific computing.

Guest Editors

Prof. Dr. Vladislav Kovalnogov

Laboratory of Inter-Disciplinary Problems of Energy Production, Ulyanovsk State Technical University, 32 Severny Venetz Street, 432027 Ulyanovsk, Russian

Prof. Dr. Nadezhda Yarushkina

Department of Information Systems, Ulyanovsk State Technical University, Ulyanovsk, Russia

Deadline for manuscript submissions

closed (31 August 2023)

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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

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