



Advances in Numerical Model and Methods for Magnetic Fluids

Guest Editors:

Dr. Marko Jesenik

Faculty of Electrical Engineering
and Computer Science,
University of Maribor, Maribor,
Slovenia

Dr. Mislav Trbušić

Faculty of Electrical Engineering
and Computer Science,
University of Maribor, Maribor,
Slovenia

Deadline for manuscript
submissions:

30 November 2024

Message from the Guest Editors

Dear Colleagues,

In the last few decades, magnetic fluids have become an area of broad interest, since these are new materials that open possibilities for their use in different areas. It is essential to know their magnetic and thermal properties and their behavior in case of exposure to external magnetic fields and exposure to different ambient temperatures.

We are searching for papers on original approaches based on modern numerical and optimization techniques used to develop magnetic fluids models that are as realistic as possible. Experimental support is desirable but not necessary. In addition, magnetic fluid models and their applications in engineering, medicine, etc., where the fusion of mathematics (numerical models) and computation (numerical methods) stimulate progress in magnetic fluid research, are also welcome. Practical applications that involve optimization methods adapted for use in the case of magnetic fluids to achieve better design results or characteristics are also welcome.





Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and
Informatics, De Montfort
University, The Gateway,
Leicester LE1 9BH, UK

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank: JCR - Q1 (*Mathematics*) / CiteScore - Q1 (*General Mathematics*)

Contact Us

Mathematics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/mathematics
mathematics@mdpi.com
[X@MathematicsMDPI](https://twitter.com/MathematicsMDPI)