



Advances in Numerical Analysis of Heat Transfer and Fluid Flow

Guest Editors:

Prof. Dr. Tomislav Mrakovčić

Faculty of Engineering, University
of Rijeka, 51000 Rijeka, Croatia

Prof. Dr. Paolo Blecich

Faculty of Engineering, University
of Rijeka, 51000 Rijeka, Croatia

Deadline for manuscript
submissions:

closed (30 April 2024)

Message from the Guest Editors

Numerical analysis developed into a crucial tool for the understanding of heat transfer and fluid flow properties in various engineering applications. This topic encompasses computational approaches, numerical tools and methods for the heat and mass transfer problems, single- and multi-phase fluid flow, nanofluidics, and phase change phenomena. The goal is to develop reliable and experimentally validated numerical approaches that can be used for the optimization of the thermal-hydraulic performance of heat exchangers, heat pumps, turbomachinery, HVAC&R components, renewable energy systems, internal combustion engines, and energy conversion.

This Special Issue is open to original research articles using computational approaches, numerical tools and methods for the investigation of heat transfer and fluid flow in engineering applications. Review articles about the latest developments and research efforts in this field are also welcome.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

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), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

Contact Us

Processes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/processes
processes@mdpi.com
[X@Processes_MDPI](https://twitter.com/Processes_MDPI)