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Computational Fluid Dynamics of Heat Transfer and Applications

Guest Editor:

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Message from the Guest Editor

Understanding and predicting heat transfer has long been a subject of research due to its comprehensive relevance in engineering and scientific applications, such as geothermal energy extraction, heat exchangers and electronic cooling instruments, chemical catalytic reactors, pollution transport, and mineral processing. Over the past several decades, considerable investigations and applications have been devoted to this area by many researchers using various computational fluid dynamics (CFD) methods (e.g., finite difference method, finite element method, finite volume method, and lattice Boltzmann method).

This Special Issue will focus on numerical simulation and applied research in heat transfer using CFD methods. Papers are invited in all different areas of numerical heat transfer, as numerical heat transfer is a multidisciplinary topic involving research areas such as electromagnetism, mechanical design, thermal management, and material issues, as well as economic and environmental aspects. We look forward to receiving your contributions.

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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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