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Symmetry and Heat Transfer

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Message from the Guest Editors

Dear Colleagues,

Even if mathematicians and engineers have understood and explained the phenomena of heat transfer, a great challenge is to apply it at the required rate of process while controlling heat and pressure losses. The growing demand to improve heat transfer efficiency involves the use of innovative techniques for the analysis and development of high-performance thermal systems.

The recent progress of computational technologies has effectively accelerated fundamental research and practical development in the heat and mass transfer area, whereby software codes are being developed for heat transfer analysis both in classical processes and in emerging technologies, including microelectronics, nanoscience, thermal storage, smart materials, microelectromechanical systems, biotechnology, or novel energy conversion technologies. Powerful computational fluid dynamics and computational heat transfer solvers were developed, but large-scale simulation still requires a large amount of computation time.

Symmetry is often used to significantly reduce the running time of pre-processing, actual solving, and post-processing...

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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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