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Recent Developments and Emerging Trends in Computational Fluids Dynamics (CFD)

Guest Editors:

Prof. Dr. Warn-Gyu Park
School of Mechanical Engineering, Pusan National University, Busan 46241, Korea

Prof. Dr. Jinyul Hwang
School of Mechanical Engineering, Pusan National University, Busan 46241, Korea

Deadline for manuscript submissions:
closed (20 May 2021)

Message from the Guest Editors

Dear Colleagues,

In recent years, computational fluid dynamics (CFD) has played a crucial role in elucidating fluid dynamics problems. In particular, CFD allows us to obtain detailed information about turbulent flow, a ubiquitous phenomenon in many engineering applications. Turbulent flow governs the transport and mixing of momentum, heat, or matter and also leads to the large wall-shear stress near solid walls. Consequently, CFD has become an indispensable engineering tool in predicting turbulent flows and in designing engineering applications. Novel computational approaches, along with the rapid developments of computer power, can provide a new avenues for the understanding and controlling of turbulent phenomena.

For this Special Issue, we invite the submission of original manuscripts as well as review articles that report recent progress on the development and application of computational methods and modeling for fluid dynamics problems. We encourage you to present new techniques for the study of complex fluid flows and the analysis of multiscale and metaphysics turbulent flows.

Prof. Dr. Warn-Gyu Park
Prof. Dr. Jinyul Hwang
Guest Editors

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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
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