Special Issue

Advances in the Smoothed Particle Hydrodynamics (SPH) Method for Complex Flows

Message from the Guest Editors

SPH is a purely Lagrangian mesh-free numerical method that has unique advantages in dealing with complex flow problems containing free surfaces or multi-phase interfaces. With the continuous improvement of computational accuracy and stability, the SPH method has been widely used in many fields of science and engineering. This Special Issue, entitled "Advances in Smoothed Particle Hydrodynamics (SPH) Method for Complex Flows," aims to cover recent advances in the development and application of SPH for complex flows. Topics will include, but are not limited to, methods and/or applications in the following areas:

- The application of the SPH method to complex fluid flow problems in chemical engineering;
- Recent advances in SPH and other advanced meshfree methods;
- Coupling of the SPH method with PD, DEM, MPM, and other methods to solve complex flow problems;
- Applications of SPH for the simulation of soft materials, fluid-structure interaction, geomechanics, fluid-particle interaction, multi-phase interactions, additive manufacturing, nano-, non-Newtonian, and viscoelastic fluids, etc.

Guest Editors

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Deadline for manuscript submissions

closed (20 December 2024)



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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.

Editor-in-Chief

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