

Special Issue

Application of the Lattice Boltzmann Method for Particulate Flows

Message from the Guest Editors

The application of LBM to particle-laden flows can be traced back to three decades ago. This Special Issue will be an ideal opportunity to review and gather the latest progress in this fascinating interdisciplinary topic. Numerical studies on the following and other subjects related to LBM simulation of particulate flows are therefore warmly encouraged:

- Isothermal and non-isothermal simulations;
- Laminar and turbulent flows;
- Isotropic and anisotropic particles;
- Industrial simulations;
- Entropic LB methods;
- DNS, LES, and RAS;
- Comparison with classical CFD;
- Improvement of fluid-particle interaction modeling approaches;
- Numerical stability, accuracy, and speed;
- Immersed boundary and bounce-back methods;
- Curved boundary treatment;
- Optimization and machine learning techniques.

Guest Editors

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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Editor-in-Chief

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