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SOFTWARE ENGINEERING

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OpenLB −Open Source Lattice Boltzmann Code

Wednesday 26 February 2025 19:40 (20 minutes)

OpenLB is one of the leading open source software projects for Lattice Boltzmann Method (LBM) based simulations in computational fluid dynamics and beyond. Developed since 2007 by an interdisciplinary and international community, it not only provides a flexible framework for implementing novel LBM schemes but also contains a large collection of academic and advanced engineering examples. It runs efficiently on target platforms ranging from smartphones over multi-GPU workstations up to supercomputers.

This poster will give an overview of the project and its community, its many multi-physics applications as well as performance benchmarks and continuous development process.

I want to participate in the youngRSE prize

no

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Session Classification: Poster and Demo Session together with Reception

Track Classification: Policies and Community Building: open source research software