



COMPUTATIONAL SCIENCE COLLOQUIUM

27. November 2018

17:15 - 18:30 Uhr, Raum 3.008

Thema

Lattice Boltzmann Method

The lattice Boltzmann method is a modern approach in Computational Fluid Dynamics. It is often used to solve the incompressible, time-dependent Navier-Stokes equations numerically. Its strength lies however in the ability to easily represent complex physical phenomena, ranging from multiphase flows to chemical interactions between the fluid and the surroundings. The method finds its origin in a molecular description of a fluid and can directly incorporate physical terms stemming from a knowledge of the interaction between molecules. For this reason, it is an invaluable tool in fundamental research, as it keeps the cycle between the elaboration of a theory and the formulation of a corresponding numerical model short. At the same time, it has proven to be an efficient and convenient alternative to traditional solvers for a large variety of industrial problems.

Referierender

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Sprache

Englisch

Zielpublikum

Für Mitarbeiter, Studierende und alle Interessierten

Sinn

Erfahrungsaustausch im Bereich CAE

Horizonterweiterung

Entwicklungen mitverfolgen

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