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Editors

Parallel Computational Fluid Dynamics 2008

Parallel Numerical Methods, Software
Development and Applications

 Springer

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Preface

Parallel CFD 2008, the twentieth in the high-level international series of meetings featuring different aspect of parallel computing in computational fluid dynamics and other modern scientific domains was held May 19 – 22, 2008 in Lyon, France.

The themes of the 2008 meeting included the traditional emphases of this conference, and experiences with contemporary architectures. Around 70 presentations were included into the conference program in the following sessions:

Parallel Algorithms and solvers

Parallel performances with contemporary architectures

Structured and unstructured grid methods, boundary methods
software framework and components architecture

CFD applications (Bio fluid, environmental problem) Lattice Boltzmann method and SPH

Optimisation in Aerodynamics

This book presents an up-to-date overview of the state of the art in Parallel Computational Fluid Dynamics from Asia, Europe, and North America. This reviewed proceedings included about sixty percent of the oral lectures presented at the conference.

The editors.

Parallel CFD 2008 was organized by the Institut Camille Jordan of the University of Lyon 1 in collaboration with the Center for the Development of the Parallel Scientific Computing.

The Scientific Committee and Local Organizers of Parallel CFD 2008 are delighted to acknowledge the generous sponsorship of the following organizations, through financial or in-kind assistance. Assistance of our sponsors allowed to organize scientific as well as social program of the conference.



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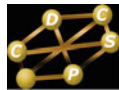
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Fluorem



Modelys

Many people worked to organize and execute the conference. We are especially grateful to all members of the international scientific committee. We also want to thank the key members of the local organizing committee David Guibert, Toan Pham Duc, Patrice linel, Simon Pomarede, Thomas Dufaud, Nicolas Kielbasievich, Daniel Fogliani, Fabienne Oudin, Brigitte Hautier, Sandrine Montingy.

We also thank our colleagues Frédéric Desprez from the Laboratoire d'Informatique du Parallélisme (LIP) Ecole Normale Supérieure de Lyon, Michel Lance from the Laboratoire de Mécanique des Fluides et d'Accoustique (LMFA) Ecole Centrale de Lyon, and Patrick Quéré from the Computer Science Laboratory for mechanics and Engineering Sciences (LIMSI) for their help to promote this event.

Damien Tromeur-Dervout
Chairman, Parallel CFD 2008.

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