



**Parallel Computational Fluid Dynamics 2008:
Parallel Numerical Methods, Software
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Parallel CFD 2008, the twentieth in the high-level international series of meetings featuring different aspects 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. VI Preface 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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