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State of the Art in Scientific Computing

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Lyngby, Denmark, June 2004
Revised Selected Papers

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**Jack Dongarra, Kaj Madsen, Jerzy
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this volume were presented at PARA 2000 the Fifth International Workshop on Applied Parallel Computing PARA 2000 was held in Bergen Norway June 18 21 2000 The workshop was organized by Parallab and the Department of Informatics at the University of Bergen The general theme for PARA 2000 was New paradigms for HPC in industry and academia focusing on High performance computing applications in academia and industry The use of Java in high performance computing Grid and Meta computing Directions in high performance computing and networking Education in Computational Science The workshop included 9 invited presentations and 39 contributed presentations The PARA 2000 meeting began with a one day tutorial on OpenMP programming led by Timothy Mattson This was followed by a three day workshop The first three PARA workshops were held at the Technical University of Denmark DTU Lyngby 1994 1995 and 1996 Following PARA 96 an international steering committee for the PARA meetings was appointed and the committee decided that a workshop should take place every second year in one of the Nordic countries The 1998 workshop was held at Umeå University Sweden One important aim of these workshops is to strengthen the ties between HPC centers academia and industry in the Nordic countries as well as worldwide The University of Bergen organized the 2000 workshop and the next workshop in the year 2002 will take place at the Helsinki University of Technology Espoo Finland

Applied Parallel Computing. Large Scale Scientific and Industrial Problems Bo Kagström, Jack Dongarra, Erik Elmroth, Jerzy Wasniewski, 2006-11-15 This book constitutes the carefully refereed proceedings of the 4th International Workshop on Applied Parallel Computing PARA 98 held in Umeå Sweden in June 1998 The 75 revised papers presented were carefully reviewed and selected for inclusion in the book The papers address a variety of topics in large scale scientific and industrial strength computing in particular high performance computing and networking tools languages and environments for parallel processing scientific visualization and virtual reality and future directions in high performance computing and communication

Parallel Processing for Scientific Computing Michael A. Heroux, Padma Raghavan, Horst D. Simon, 2006-01-01 Parallel processing has been an enabling technology in scientific computing for more than 20 years This book is the first in depth discussion of parallel computing in 10 years it reflects the mix of topics that mathematicians computer scientists and computational scientists focus on to make parallel processing effective for scientific problems Presently the impact of parallel processing on scientific computing varies greatly across disciplines but it plays a vital role in most problem domains and is absolutely essential in many of them Parallel Processing for Scientific Computing is divided into four parts The first concerns performance modeling analysis and optimization the second focuses on parallel algorithms and software for an array of problems common to many modeling and simulation applications the third emphasizes tools and environments that can ease and enhance the process of application development and the fourth provides a sampling of applications that require parallel computing for scaling to solve larger and realistic models that can advance science and engineering

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Applied Parallel Computing. Computations in Physics, Chemistry and Engineering Science Jack Dongarra, Kaj Madsen, Jerzy Wasniewski, 2014-01-15

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