

## Applied Parallel Computing. Advanced Scientific Computing: 6th International Conference, Para 2002, Espoo, Finland, June 15-18, 2002. Proceedings



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### **Reviews**

*Without doubt, this is actually the very best function by any article writer. it was writtern quite flawlessly and valuable. Once you begin to read the book, it is extremely difficult to leave it before concluding.*  
(Prof. Isobel Heller MD)

**APPLIED PARALLEL COMPUTING. ADVANCED SCIENTIFIC COMPUTING: 6TH INTERNATIONAL CONFERENCE, PARA 2002, ESPOO, FINLAND, JUNE 15-18, 2002. PROCEEDINGS**



Springer. Paperback. Book Condition: New. Paperback. 626 pages. Dimensions: 9.2in. x 6.0in. x 1.0in. These proceedings contain the papers presented at PARA2002, the Sixth International Conference on Applied Parallel Computing. PARA2002 was held in Espoo, Finland, June 15-18, 2002, and hosted by CSC, the Finnish information technology center for science. The general theme of the conference was advanced scientific computing. The conference demonstrated the ability of advanced scientific computing to solve real-world problems, and highlighted methods, instruments, and trends in future scientific computing. The conference began with a one-day tutorial session on Grid programming. The conference focused on an application-oriented, multi-disciplinary, and multi-scale approach. A wide variety of scientific computing applications were introduced, from semiconductor processing and behavior of the human body to oceanic and atmospheric phenomena. Scientific computing coupled with multi-disciplinary and multi-scale expertise will play a significant role in solving challenging problems in science. The conference aims to demonstrate how difficult problems can be solved using mathematical modeling, efficient numerical methods, advanced program development, and tools in parallel computing. The conference also focused on data analysis. The amount of information available is rapidly increasing. Data mining can be used to search for regularities in huge datasets, and new techniques in visualization, e. g. , virtual environments, can be used in the interpretation of numerical information. To the audience, the conference also reported on recent and future trends in generic technologies in scientific computing. These covered various environments, e. g. , clusters, supercomputers, and Grid technologies. April 2002 Juha Fagerholm, Juha Haataja, Jari Jarvinen, Mikko Lyly, Peter Raback, and Ville Savolainen VII Organization PARA2002 was organized by CSC, the Finnish IT center for science. CSC is a center for high-performance computing and networking, owned by the Finnish Ministry of Education. CSC provides modeling, computing, and information services for universities, research institutions, and industrial companies. Steering Committee Petter Bjørstad University of Bergen (Norway) Jack Dongarra University of Tennessee and Oak Ridge National Laboratory (USA) Björn Engquist PDC, Royal Institute of Technology (Sweden) Kristjan Jonasson University of Iceland (Iceland) Bo Kagstrom Umea University and HPC2N (Sweden) Risto Nieminen Helsinki University of Technology (Finland) Karstein Sorli SINTEF, Dept of Industrial Mathematics (Norway) Kari Laasonen University of Oulu (Finland) Jerzy Wasniewski Danish Computing Centre for Research and Education (UNIC) (Denmark) Local Organizing Committee Jari Jarvinen CSC, chairman Lauri Kettunen Tampere University of Technology Kari Laasonen University of Oulu Risto Nieminen Helsinki University of Technology Tapani Pakkanen University of Joensuu Jussi Rahola Nokia Research Center Henry Tirri University of Helsinki Katri Luostarinen CSC Aila Kinnunen CSC Kaija Sanz CSC Vesa Savolainen CSC VIII Organization Sponsors Main sponsor: IBM Others sponsors: Nokia Corporation Academy of Finland City of Espoo WM-data Ltd. SAS Springer-Verlag Table of Contents I Keynote Lectures Enabling Numerical and Software Technologies for Studying the Electrical Activity in Human Heart . . . . . 3 Xing Cai, Glenn Terje Lines Parallel Patient-Specific Computational Haemodynamics. . . . . 18 J. Cebra, R. Lohner, P. L. Choyke, P. J. Yim High Performance Computing, Computational Grid, and Numerical Libraries. . . . . 35 Jack Dongarra Grid Computing: Enabling a Vision for Collaborative Research . . . . . 37 Gregor von Laszewski HPC-What Might the Future Hold ....

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