

Large-Scale Scientific Computing

Third International Conference, LSSC 2001, Sozopol, Bulgaria, June 6-10, 2001. Revised Papers

Large-scale computations in air pollution modeling, – Large-scale computations for mechanical engineering problems, and – Numerical methods for incompressible flow. The workshop itself attracted about 80 participants from around the world. Authors from over 15 countries submitted 52 papers, of which 7 were invited, and 45 were contributed. The Fourth International Conference (ICLSSC 2003) will take place in 2003. Svetozar Margenov October 2001 Jerzy Wasniewski Plamen Yalamov Table of Contents I Invited Papers Optimizing Two-Level Preconditionings for the Conjugate Gradient Method. 3 O. Axelsson and I. Kaporin On the Parallelization of the Sparse Grid Approach for Data Mining. 22 J. Garcke and M. Griebel Java Communications for Large-Scale Parallel Computing. 33 V. Getov and M. Philippsen Continuous Path Brownian Trajectories for Diffusion Monte Carlo via First- and Last-Passage Distributions. 46 J. A. Given, M. Mascagni, and Ch. -O. Hwang Multilevel Monte Carlo Methods. 58 S. Heinrich Iterative Aggregation/Disaggregation Methods for Computing Some Characteristics of Markov Chains. 68 I. Marek and P. Mayer Time-Integration Algorithms for the Computer Treatment of the Horizontal Advection in Air Pollution Models. 81 Z. Zlatev II Robust Preconditioning Algorithms MIC(0) Preconditioning of Rotated Trilinear FEM Elliptic Systems. 95 I. Georgiev and S. Margenov Sobolev Space Preconditioning for Mixed Nonlinear Elliptic Boundary Value Problems. 104 J. Karátson and I. Faragó On a Schur Complement Approach for Solving Two-Level Finite Element Systems. 113 M. Neytcheva and O. Axelsson VIII III Monte Carlo Methods On-Line State Estimation of Maneuvering Objects by Sequential Monte Carlo Algorithm. 125 D. Angelova, E. Semerdjiev, Tz. Semerdjiev, and P. Konstantinova On the Dyadic Diaphony of the Sobol' Sequences. 133 E. I. Atanassov An Improved Monte Carlo Algorithm for Elastic Electron Backscattering from Surfaces. 141 I. T. Dimov, E. I. Atanassov, and M. K. Durchova Statistical Algorithms for Simulation of Electron Quantum Kinetics in Semiconductors – Part I. 149 T. V. Gurov and P. A. Whitlock A Quasi-Monte Carlo Method for Integration with Improved Convergence. 158 A. Karaivanova, I. Dimov, and S. Ivanovska Solving Systems of Linear Algebraic Equations Using Quasirandom Numbers.

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