

Large-Scale Scientific Computing

5th International Conference, LSSC 2005, Sozopol, Bulgaria, June 6-10, 2005, Revised Papers

This book constitutes the thoroughly refereed post-proceedings of the 5th International Conference on Large-Scale Scientific Computations, LSSC 2005, held in Sozopol, Bulgaria in June 2005. The 75 revised full papers presented together with five invited papers were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections.

The 5th International Conference on Large-Scale Scientific Computations (LSSC2005) was held in Sozopol, Bulgaria, June 6–10, 2005. The conference was organized and sponsored by the Institute for Parallel Processing at the Bulgarian Academy of Sciences. Partial support was also provided from project BIS-21++ funded by the European Commission in FP6 INCO via grant 016639/2005. The plenary invited speakers and lectures were: – O.

Axelsson, Eigenvalue Estimates for Preconditioned Saddle Point Matrices – R. Blaheta, Algebraic Multilevel Methods with Aggregations – S. Brenner, Additive Multigrid Theory – C. Carstensen, Review on the Convergence of Adaptive Finite Element Methods – S. Heinrich, Numerical Analysis on a Quantum Computer – U. Langer, Inexact Date-Sparse Boundary and Finite Element Domain - composition Methods – R. Lazarov, Discontinuous Galerkin Method as Stabilization Technique for Nonconforming Finite Element Approximations of PDEs – J. Wasniewski, New Data Storage Formats for Dense Matrices Lead to a Variety of High-Performance Algorithms – Z. Zlatev, Parallel Treatment of General Sparse Matrices The success of the conference and the present volume in particular are the outcome of the joint efforts of many colleagues from various institutions and organizations. Firstly thanks to all the members of the Scientific Committee for their valuable contribution forming the scientific face of the conference, as well as for their help in reviewing contributed papers. We especially thank the organizers of the special sessions. We are also grateful to the staff involved in the local organization.



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