

Parallel Scientific Computing and Optimization: Advances and Applications, 2010, 274 pages, Raimondas Ciegis, David Henty, Bo Kagström, Julius ESilinskas, 1441918841, 9781441918840, Springer New York, 2010

The book is divided into four parts: Parallel Algorithms for Matrix Computations, Parallel Optimization, Management of Parallel Programming Models and Data, and Parallel Scientific Computing in Industrial Applications. The first part of the book includes chapters on parallel matrix computations. The chapter by R. Granat, I. Jonsson, and B. Kagström, RECSY and SCASY Library Software: Recursive Blocked and Parallel Algorithms for Sylvester-type Matrix Equations with Some Applications, gives an overview of state-of-the-art high-performance computing (HPC) algorithms and software for solving various standard and generalized Sylvester-type matrix equations. Computer-aided control system design (CACSD) is a great source of applications for matrix equations - cluding different eigenvalue and subspace problems and for condition estimation. The parallelization is invoked at two levels: globally in a distributed memory paradigm, and locally on shared memory or multicore nodes as part of the distributed memory environment. In the chapter by A. Jakusev, R. Ciegis, I. Laukaityte, and V. Trofimov, Parallelization of Linear Algebra Algorithms Using ParSol Library of Mathematical Objects, the mathematical objects library ParSol is described and evaluated. It is applied to implement the finite difference scheme to solve numerically a system of PDEs describing a nonlinear interaction of two counter-propagating laser waves.

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