## 《Computational Scienc》

#### 图书基本信息

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#### 内容概要

The four-volume set LNCS 3036, LNCS 3037, LNCS 3038 and LNCS 3039 constitutes the refereed proceedings of the 4th International Conference on Computational Science, ICCS 2004, held in Krak ó w, Poland in June 2004. The four volumes present more than 550 reviewed contributed and invited papers of the main conference and its 30 workshops. The papers span the whole range of computational science, from foundational and methodological issues in computer science and algorithmic mathematics to advanced applications in virtually all sciences making use of computational techniques. The proceedings is a unique record of recent progress in the field.

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#### 书籍目录

Track on Numerical Algorithms Hierarchical Matrix-Matrix Multiplication Based on Multiprocessor Tasks Improving Geographical Locality of Data for Shared Memory Implementations of PDE Solvers Cache Oblivious Matrix Transposition: Simulation and Experiment An Intelligent Hybrid Algorithm for Solving Non-linear Polynomial Systems A Jacobi-Davidson Method for Nonlinear Eigenproblems Numerical Continuation of Branch Points of Limit Cycles in MATCONT Online Algorithm for Time Series Prediction Based on Support Vector Machine Philosophy Improved A-P Iterative Algorithm in Spline Subspaces Solving Differential Equations in Developmental Models of Multieellular Structures Expressed Using L-systems On a Family of A-stable Collocation Methods with High Derivatives Local Sampling Problems Recent Advances in Semi-Lagrangian Modelling of Flow through the Strait of Gibraltar Efficiency Study of the "Black-Box" Component Decomposition Preconditioning for Discrete Stress Analysis Problems Direct Solver Based on FFT and SEL for Diffraction Problems with Distribution Non-negative Matrix Factorization for Filtering Chinese Document On Highly Secure and Available Data Storage SystemsTrack on Neural Networks Self-Organizing Multi-layer Fuzzy Polynomial Neural Networks Based on Genetic Optimization ......Track on ApplicationsPoster PapersAuthor Index

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