1. Record Nr.   UNISA996465888703316

Titolo   Computational Science — ICCS 2001 [[electronic resource]] : International Conference San Francisco, CA, USA, May 28–30, 2001 Proceedings, Part I / / edited by Vassil N. Alexandrov, Jack J. Dongarra, Benjoe A. Juliano, Rene S. Renner, C.J.Kenneth Tan

Pubbl/distr/stampa   Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2001

ISBN   3-540-45545-0

Edizione   [1st ed. 2001.]

Descrizione fisica   1 online resource (LVI, 1305 p. 301 illus.)

Collana   Lecture Notes in Computer Science, , 0302-9743 ; ; 2073

Disciplina   004

Soggetti   Computers
Software engineering
Artificial intelligence
Computer mathematics
Computational complexity
Theory of Computation
Software Engineering/Programming and Operating Systems
Information Systems and Communication Service
Artificial Intelligence
Computational Mathematics and Numerical Analysis
Complexity

Lingua di pubblicazione   Inglese

Formato   Materiale a stampa

Livello bibliografico   Monografia

Note generali   Bibliographic Level Mode of Issuance: Monograph

Nota di bibliografia   Includes bibliographical references at the end of each chapters and index.

Nota di contenuto   Invited Paper -- Architecture-Specific Automatic Performance Tuning -- Climate Modeling -- Global Computing — Internals and Usage -- Collaborative Computing -- Complex Physical System Simulation -- Computational Chemistry -- Computational Finance -- Computational Geometry and Applications -- Computational Methods -- Computational Models of Natural Language Arguments -- Computational Physics in the Undergraduate Curriculum -- Computational Science Applications and Case Studies -- Computational Science Education: Standards, Learning Outcomes and Assesment

Techniques -- High Performance and Parallel Computing in Manufacturing and Testing Environments -- Monte Carlo Numerical Methods.

Sommario/riassunto	LNCS volumes 2073 and 2074 contain the proceedings of the International Conference on Computational Science, ICCS 2001, held in San Francisco, California, May 27 -31, 2001. The two volumes consist of more than 230 contributed and invited papers that reflect the aims of the conference to bring together researchers and scientists from mathematics and computer science as basic computing disciplines, researchers from various application areas who are pioneering advanced application of computational methods to sciences such as physics, chemistry, life sciences, and engineering, arts and humanitarian fields, along with software developers and vendors, to discuss problems and solutions in the area, to identify new issues, and to shape future directions for research, as well as to help industrial users apply various advanced computational techniques.