

1. Record Nr.	UNINA9910144162103321
Titolo	Computational Science and Its Applications - ICCSA 2004 : International Conference, Assisi, Italy, May 14-17, 2004, Proceedings, Part III // edited by Antonio Laganà, Marina L. Gavrilova, Vipin Kumar, Youngsong Mun, C.J. Kenneth Tan, Osvaldo Gervasi
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2004
ISBN	1-280-30764-1 9786610307647
Edizione	[1st ed. 2004.]
Descrizione fisica	1 online resource (CVI, 1044 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 3045
Disciplina	004
Soggetti	Computers Computer programming Computer science—Mathematics Application software Computer mathematics Theory of Computation Programming Techniques Mathematics of Computing Information Systems and Communication Service Computer Applications Computational Mathematics and Numerical Analysis
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	Workshop on Computational Geometry and Applications (CGA 04) -- Track on Computational Geometry -- Track on Adaptive Algorithms -- Track on Biology, Biochemistry, Bioinformatics -- Track on Cluster Computing -- Track on Computational Medicine -- Track on Computational Methods -- Track on Computational Science Education -- Track on Computer Modeling and Simulation -- Track on Financial and Economical Modeling -- Track on Mobile Computing Systems.

The natural mission of Computational Science is to tackle all sorts of human problems and to work out intelligent automata aimed at alleviating the burden of working out suitable tools for solving complex problems. For this reason Computational Science, though originating from the need to solve the most challenging problems in science and engineering (computational science is the key player in the fight to gain fundamental advances in astronomy, biology, chemistry, environmental science, physics and several other scientific and engineering disciplines) is increasingly turning its attention to all fields of human activity. In all activities, in fact, intensive computation, information handling, knowledge synthesis, the use of ad-hoc devices, etc. increasingly need to be exploited and coordinated regardless of the location of both the users and the (various and heterogeneous) computing platforms. As a result the key to understanding the explosive growth of this discipline lies in two adjectives that more and more appropriately refer to Computational Science and its applications: interoperable and ubiquitous. Numerous examples of ubiquitous and interoperable tools and applications are given in the present four LNCS volumes containing the contributions delivered at the 2004 International Conference on Computational Science and its Applications (ICCSA 2004) held in Assisi, Italy, May 14–17, 2004.

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