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| 1. Record Nr. | UNINA9910483026703321 |
| Titolo | Computational science and its applications, ICCSA 2005 : international conference, Singapore, May 9-12, 2005 : proceedings, part IV // Osvaldo Gervasi ... [et al.] (eds.) |
| Pubbl/distr/stampa | Berlin ; ; New York, : Springer, c2005 |
| Edizione | [1st ed. 2005.] |
| Descrizione fisica | 1 online resource (XXVII, 1353 p.) |
| Collana | Lecture notes in computer science, , 0302-9743 ; ; 3483 Computational science and its applications, ICCSA 2005 : international conference, Singapore, May 9-12, 2005 : proceedings ; ; pt. 4 |
| Altri autori (Persone) | GervasiOsvaldo |
| Disciplina | 004 |
| Soggetti | Computer science Computational 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 and indexes. |
| Nota di contenuto | Information and Communication Technology (ICT) Education Workshop -- Digital Device for Ubiquitous Computing Workshop -- Optimization : Theories and Applications (OTA) 2005 Workshop -- General tracks. |
| Sommario/riassunto | The four volume set assembled following The 2005 International Conference on Computational Science and its Applications, ICCSA 2005, held in Suntec International Convention and Exhibition Centre, Singapore, from 9 May 2005 till 12 May 2005, represents the ?ne collection of 540 refereed papers selected from nearly 2,700 submissions. Computational Science has ?rmly established itself as a vital part of many scienti?c investigations, affecting researchers and practitioners in areas ranging from applications such as aerospace and automotive, to emerging technologies such as bioinformatics and nanotechnologies, to core disciplines such as ma- ematics, physics, and chemistry. Due to the shear size of many challenges in computational science, the use of supercomputing, parallel processing, and - phisticated algorithms is inevitable and becomes a part of fundamental t- oretical research as well as endeavors in emerging ? elds. Together, these far reaching scienti?c areas contribute to shape this Conference in the realms of state-of-the-art computational science research and applications, encompassing the facilitating |

theoretical foundations and the innovative applications of such results
in other areas.
