Record Nr. UNINA9910299785303321 Interdisciplinary Topics in Applied Mathematics, Modeling and **Titolo** Computational Science / / edited by Monica G. Cojocaru, Ilias S. Kotsireas, Roman N. Makarov, Roderick V. N. Melnik, Hasan Shodiev Cham:,: Springer International Publishing:,: Imprint: Springer,, Pubbl/distr/stampa 2015 **ISBN** 3-319-12307-6 Edizione [1st ed. 2015.] 1 online resource (538 p.) Descrizione fisica Springer Proceedings in Mathematics & Statistics, , 2194-1009;; 117 Collana 510 Disciplina Soggetti Computer mathematics Applied mathematics **Engineering mathematics** Computer science—Mathematics Mathematics Social sciences Computational Science and Engineering Applications of Mathematics Mathematical and Computational Engineering Math Applications in Computer Science Mathematics in the Humanities and Social Sciences Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references at the end of each chapters. Nota di contenuto Exact solutions and conservation laws of the JosephEgri equation with power law nonlinearity (A.R. Adem, C.M. Khalique) -- MLa Deconvolution model in a bounded domain with a vertical regularization (H. Ali) -- Solving the Linear Transportation Problem by Modified Vogel Method (D. Almaatani, S.G. Diagne, Y. Gningue, P.M. Takouda) -- InputtoState Stability of LargeScale Stochastic Impulsive Systems with Time Delay and Application to Control Systems (M.S. Alwan, X.Z. Liu, W -- C. Xie) -- Replicator Dynamics of Axelrod's Norms Games (M. Andrews, E. Thommes, M. Cojocaru) -- Computing least squares condition numbers on hybrid multicore/GPU systems (M.

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Sommario/riassunto

-- Impulsive Control and Synchronization of Spatiotemporal Chaos in the GrayScott Model (K. Zhang, X. Liu, W -- C. Xie).

The Applied Mathematics, Modelling, and Computational Science (AMMCS) conference aims to promote interdisciplinary research and collaboration. The contributions in this volume cover the latest research in mathematical and computational sciences, modeling, and simulation as well as their applications in natural and social sciences, engineering and technology, industry, and finance. The 2013 conference, the second in a series of AMMCS meetings, was held August 26-30 and organized in cooperation with AIMS and SIAM, with support from the Fields Institute in Toronto, and Wilfrid Laurier University. There were many young scientists at AMMCS-2013, both as presenters and as organizers. This proceedings contains refereed papers contributed by the participants of the AMMCS-2013 after the conference. This volume is suitable for researchers and graduate students, mathematicians and engineers, industrialists, and anyone who would like to delve into the interdisciplinary research of applied and computational mathematics and its areas of applications.