International Joint Conference
SOCO’13-CISIS’13
-ICEUTE’13

Salamanca, Spain, September 11th–13th, 2013
Proceedings
Preface

This volume of Advances in Intelligent and Soft Computing contains accepted papers presented at SOCO 2013, CISIS 2013 and ICEUTE 2013, all conferences held in the beautiful and historic city of Salamanca (Spain), in September 2013.

Soft computing represents a collection or set of computational techniques in machine learning, computer science and some engineering disciplines, which investigate, simulate, and analyse very complex issues and phenomena.

After a thorough peer-review process, the 8th SOCO 2013 International Program Committee selected 40 papers which are published in these conference proceedings, and represents an acceptance rate of 41%. In this relevant edition a special emphasis was put on the organization of special sessions. Four special sessions were organized related to relevant topics as: Systems, Man, and Cybernetics, Data Mining for Industrial and Environmental Applications, Soft Computing Methods in Bioinformatics, and Soft Computing Methods, Modelling and Simulation in Electrical Engineering.

The aim of the 6th CISIS 2013 conference is to offer a meeting opportunity for academic and industry-related researchers belonging to the various, vast communities of Computational Intelligence, Information Security, and Data Mining. The need for intelligent, flexible behaviour by large, complex systems, especially in mission-critical domains, is intended to be the catalyst and the aggregation stimulus for the overall event.

After a thorough peer-review process, the CISIS 2013 International Program Committee selected 23 papers which are published in these conference proceedings achieving an acceptance rate of 39%.

In the case of 4th ICEUTE 2013, the International Program Committee selected 11 papers which are published in these conference proceedings.

The selection of papers was extremely rigorous in order to maintain the high quality of the conference and we would like to thank the members of the Program Committees for their hard work in the reviewing process. This is a crucial process to the creation of a high standard conference and the SOCO, CISIS and ICEUTE conferences would not exist without their help.
SOCO’13, CISIS’13 and ICEUTE’13 enjoyed outstanding keynote speeches by distinguished guest speakers: Prof. Hojjat Adeli - Ohio State University (USA), Prof. Huijun Yin - University of Manchester (UK), and Prof. Manuel Graña – University of Pais Vasco (Spain).

SOCO’13 has teamed up with the International Journal of Neural Systems (WORLD SCIENTIFIC), Integrated Computer-Aided Engineering (IOS PRESS), Computer-Aided Civil and Infrastructure Engineering (IOS PRESS), Neurocomputing (ELSEVIER), Journal of Applied Logic (ELSEVIER), Applied Soft Computing (ELSEVIER) and DYNA (FEDERACION ASOCIACIONES INGENIEROS INDUSTRIALES ESPANA) journals for a suite of special issues and fast track including selected papers from SOCO’13.

For this CISIS’13 special edition, as a follow-up of the conference, we anticipate further publication of selected papers in a special issue of the prestigious Logic Journal of the IGPL Published by Oxford Journals.

Particular thanks go as well to the Conference main Sponsors, IEEE-SecciónEspaña, IEEE Systems, Man and Cybernetics-CapítuloEspañol, AEPIA, Ayto. of Salamanca, University of Salamanca, World Federation of Soft Computing, MIR Labs, IT4 Innovation Centre of Excellence, The International Federation for Computational Logic, Ministerio de Economía y Competitividad (TIN 2010-21272-C02-01), Junta de Castilla y León (SA405A12-2), INMOTIA, RELENTIA, and HIDROGENA, who jointly contributed in an active and constructive manner to the success of this initiative. We want also to extend our warm gratitude to all the Special sessions chairs for their continuing support to the SOCO, CISIS and ICEUTE Series of conferences.

We would like to thank all the special session organizers, contributing authors, as well as the members of the Program Committees and the Local Organizing Committee for their hard and highly valuable work. Their work has helped to contribute to the success of the SOCO 2013, CISIS 2013 and ICEUTE 2013 events.

September, 2013

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VŠB-Technical University of Ostrava,  
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Bournemouth University, UK

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