

Guest Editorial Preface

Special Issue from 2015 Brazilian Congress on Computational Intelligence: Swarm Intelligence Highlights

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The 12th CBIC (Brazilian Congress on Computational Intelligence) was held in Curitiba alongside with the second LA-CCI (Latin American Congress on Computational Intelligence) from October, 13th to 16th, 2015. The objective of CBIC is to provide a high-level forum for scientists, researchers, engineers, and educators to disseminate their latest research results and exchange views of the future research directions on Neural & Learning Systems, Fuzzy & Stochastic Modeling, Evolutionary & Swarm Computation, and their related applications. CBIC follows a long-standing tradition that spans over 23 years.

The scientific committee of CBIC 2015 was composed by Carmelo Bastos-Filho, University of Pernambuco, as the TPC Chair, Celso Camilo-Junior, Federal University of Goiás, (TPC Co-Chair for Evolutionary & Swarm Computation), Cristiano Castro, Federal University of Minas Gerais (TPC Co-Chair for Neural & Learning Systems) and Carlos Maciel, University of São Paulo (TPC Co-Chair for Fuzzy & Stochastic Modeling) and most of the researchers on Computational Intelligence currently working in Brazil.

CBIC 2015 received 164 submissions, and 56 papers were accepted for oral presentation, and 60 papers were accepted as posters. The authors contributing to this special issue addressed swarm intelligence theory and applications and extended the versions of four of the best papers in this field developed in Brazil and presented in CBIC 2015. It is my hope that these contributions can help researchers interested in swarm intelligence algorithms.

Carmelo J.A. Bastos-Filho
Guest Editor
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Carmelo J. A. Bastos-Filho received the BSc in electronics engineering and the MSc and PhD degrees in electrical engineering from Federal University of Pernambuco (UFPE) in 2000, 2003, and 2005, respectively. In 2006, he received the best Brazilian thesis award in electrical engineering. His interests are related to optical networks, swarm intelligence, evolutionary computation, multiobjective optimization, and biomedical applications. He is currently an Associate Professor at the Polytechnic School of the University of Pernambuco. He is currently the scientist-in-chief of the Technological Park for Electronics of Pernambuco. He is a graduate faculty at University of Pernambuco, Federal University of Pernambuco and Florida Institute of Technology. He is an IEEE senior member and a Research fellow of the National Research Council of Brazil (CNPq).