

# INTERNATIONAL JOURNAL OF APPLIED METAHEURISTIC COMPUTING

August-October 2013, Vol. 4, No. 3

## Table of Contents

### RESEARCH ARTICLES

- 1 **Hybridizing Harmony Search Algorithm with Multi-Parent Crossover to Solve Real World Optimization Problems**  
*Iyad Abu Doush, Computer Science Department, Yarmouk University, Irbid, Jordan*  
*Faisal Alkhateeb, Computer Science Department, Yarmouk University, Irbid, Jordan*  
*Eslam Al Maghayreh, Computer Science Department, Yarmouk University, Irbid, Jordan*  
*Mohammed Azmi Al-Betar, Department of Information Technology, Al-Huson University College, Al-Balqa Applied University, Irbid, Jordan*  
*Basima Hani F. Hasan, Computer Science Department, Yarmouk University, Irbid, Jordan*
- 15 **A New Meta-Heuristic Based on Social Bees for Detection and Filtering of Spam**  
*Reda Mohamed Hamou, Department of Mathematics and Computer Science, Dr. Moulay Tahar University of SAÏDA, Saida, Algeria*  
*Abdelmalek Amine, Department of Mathematics and Computer Science, Dr. Moulay Tahar University of SAÏDA, Saida, Algeria*  
*Amine Boudia, Department of Mathematics and Computer Science, Dr. Moulay Tahar University of SAÏDA, Saida, Algeria*
- 34 **A New Approach in Short-Term Prediction of the Electrical Charge with Regression Models: A Case Study**  
*Farhad Soleimani Gharehchopogh, Urmia Branch, Islamic Azad University, West Azerbaijan, Iran*  
*Freshite Dabaghchi Mokri, Computer Engineering Department, Science and Research Branch, Islamic Azad University, West Azerbaijan, Iran*  
*Maryam Molany, Computer Engineering Department, Science and Research Branch, Islamic Azad University, West Azerbaijan, Iran*
- 47 **An Efficient Ant Colony Instance Selection Algorithm for KNN Classification**  
*Amal Miloud-Aouidate, University of Science and Technology, Houari Boumediene, Bab Ezzouar Algiers, Algeria*  
*Ahmed Riadh Baba-Ali, University of Science and Technology, Houari Boumediene, Bab Ezzouar Algiers, Algeria*
- 65 **A Modified Ant Colony Algorithm to the P|Prec|C<sub>MAX</sub> Scheduling Problem: A Comparative Study**  
*Mohamed Messaoudi-Ouchene, LAMDA-RO Laboratory, Mathematics Department, Faculty of Science, University Saad Dahlab of Blida, Blida, Algeria*  
*Ali Derbala, LAMDA-RO Laboratory, Mathematics Department, Faculty of Science, University Saad Dahlab of Blida, Blida, Algeria*

### Copyright

The *International Journal of Applied Metaheuristic Computing* (ISSN 1947-8283; eISSN 1947-8291). Copyright © 2013 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for non-commercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.

The *International Journal of Applied Metaheuristic Computing* is currently listed or indexed in: ACM Digital Library; Bacon's Media Directory; DBLP; Google Scholar; INSPEC; JournalTOCs; MediaFinder; The Standard Periodical Directory; Ulrich's Periodicals Directory