

# International Journal of Applied Evolutionary Computation

January-March 2014, Vol. 5, No. 1

## Table of Contents

### RESEARCH ARTICLES

- 1 **Invasive Weed Optimization for Combined Economic and Emission Dispatch Problems**  
*B.K. Panigrahi, Department of Electrical Engineering, Indian Institute of Technology Delhi, India*  
*Manjaree Pandit, Department of Electrical Engineering, Madhav Institute of Technology & Science Gwalior, India*  
*Hari Mohan Dubey, Department of Electrical Engineering, Madhav Institute of Technology & Science Gwalior, India*  
*Ashish Agarwal, Department of Electrical Engineering, Madhav Institute of Technology & Science Gwalior, India*  
*Wei-Chiang Hong, Department of Information Management, Oriental Institute of Technology, Taiwan*
- 19 **Nurse Scheduling by Cooperative GA with Effective Virus Operator**  
*Makoto Ohki, Tottori University, Department of Electrical and Electronic Engineering, Tottori, Japan*
- 30 **Hybridizing Shuffled Frog Leaping and Shuffled Complex Evolution Algorithms Using Local Search Methods**  
*Morteza Alinia Ahandani, Department of Electrical Engineering, Young Researchers Club, Islamic Azad University, Langaroud Branch, Langaroud, Iran*  
*Hosein Alavi-Rad, Department of Electrical Engineering, Young Researchers Club, Islamic Azad University, Langaroud Branch, Langaroud, Iran*
- 52 **Solution of “Hard” Knapsack Instances Using Quantum Inspired Evolutionary Algorithm**  
*C. Patvardhan, Department of Electrical Engineering, Dayalbagh Educational Institute, Agra, India*  
*Sulabh Bansal, Department of Electrical Engineering, Dayalbagh Educational Institute, Agra, India*  
*Anand Srivastav, Institut für Informatik, Universität zu Kiel, Kiel, Germany*
- 69 **Multi-Objective Genetic Algorithm with Strategies for Dying of Solution**  
*Rahila Patel, Research scholar, G. H. Raisoni College of Engineering, Nagpur, India*  
*M. M. Raghuvanshi, Principal, Rajiv Gandhi College of Engineering and Research, Nagpur, India*  
*Latesh Malik, Department of Computer Science & Engineering, G. H. Raisoni College of Engineering, Nagpur, India*

### Copyright

The **International Journal of Applied Evolutionary Computation (IJAEC)** (ISSN 1942-3594; eISSN 1942-3608), Copyright © 2014 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 noncommercial, 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 Evolutionary Computation* is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; DBLP; Google Scholar; INSPEC; JournalTOCs; MediaFinder; The Standard Periodical Directory; Ulrich's Periodicals Directory