

# International Journal of Swarm Intelligence Research

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

## Table of Contents

### RESEARCH ARTICLES

- 1 **Collective Animal Behaviour Based Optimization Algorithm for IIR System Identification Problem**  
*P. Upadhyay, Department of Electronics and Communication Engineering, National Institute of Technology, Durgapur, India*  
*R. Kar, Department of Electronics and Communication Engineering, National Institute of Technology, Durgapur, India*  
*D. Mandal, Department of Electronics and Communication Engineering, National Institute of Technology, Durgapur, India*  
*S. P. Ghoshal, Department of Electrical Engineering, National Institute of Technology, Durgapur, India*
- 36 **Developmental Swarm Intelligence: Developmental Learning Perspective of Swarm Intelligence Algorithms**  
*Yuhui Shi, Department of Electrical and Electronic Engineering, Xi'an Jiaotong Liverpool University, Jiangsu, China*
- 55 **Monitoring the Vital Signs in a Complex Social System: An Example Using Cultural Algorithms**  
*Xiangdong Che, College of Technology, Eastern Michigan University, Ypsilanti, MI, USA*  
*Areej Salaymeh, Department of Computer Science, Wayne State University, Detroit, MI, USA*  
*Robert Reynolds, Department of Computer Science, Wayne State University, Detroit, MI, USA*

### Copyright

The **International Journal of Swarm Intelligence Research (IJSIR)** (ISSN 1947-9263; eISSN 1947-9271), 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 Swarm Intelligence Research* is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; DBLP; Google Scholar; INSPEC; JournalTOCs; MediaFinder; The Standard Periodical Directory; Ulrich's Periodicals Directory