

Table of Contents

International Journal of Applied Metaheuristic Computing

Volume 12 • Issue 3 • July-September-2021 • ISSN: 1947-8283 • eISSN: 1947-8291

RESEARCH ARTICLES

- 1 **Development of Energy Efficient and Optimized Coverage Area Network Configuration to Achieve Reliable WSN Network Using Meta-Heuristic Approaches**
Avishek Banerjee, Asansol Engineering College, Asansol, India
Victor Das, Asansol Engineering College, Asansol, India
Arindam Biswas, Kazi Nazrul University, Asansol, India
Samiran Chattopadhyay, Jadavpur University, India
Utpal Biswas, University of Kalyani, India
- 28 **Hybrid Genetic Algorithm-Gravitational Search Algorithm to Optimize Multi-Scale Load Dispatch**
D. Santra, RCC Institute of Information Technology, India
A. Mukherjee, RCC Institute of Information Technology, India
K. Sarker, Budge Budge Institute of Technology, India
S. Mondal, Jadavpur University, India
- 54 **Economic Load Dispatch Incorporating Wind Power Using Hybrid Biogeography-Based Optimization: Salp Swarm Algorithm**
Bikram Saha, Kalyani Government Engineering College, India
Provas Kumar Roy, Kalyani Government Engineering College, India
Barun Mandal, Kalyani Government Engineering College, India
- 81 **A Multi-Objective Approach for Test Suite Reduction During Testing of Web Applications: A Search-Based Approach**
Munish Khanna, Hindustan College of Science and Technology, Mathura, India
Naresh Chauhan, YMCA University of Science and Technology, Faridabad, India
Dilip Kumar Sharma, GLA University, Mathura, India
Law Kumar Singh, Hindustan College of Science and Technology, Mathura, India
- 123 **Hybrid Modified Whale Optimisation Algorithm Simulated Annealing Technique for Control of SRM**
Nutan Saha, Veer Surendra Sai University of Technology, India
Sidhartha Panda, Veer Surendra Sai University of Technology, India
- 148 **Implementation of an H-PSOGA Optimization Model for Vehicle Routing Problem**
Justice Kojo Kangah, Kwame Nkrumah University of Science and Technology, Ghana
Justice Kwame Appati, University of Ghana, Ghana
Kwaku F. Darkwah, Kwame Nkrumah University of Science and Technology, Ghana
Michael Agbo Tettey Soli, University of Ghana, Ghana
- 163 **Trajectory Generation of an Industrial Robot With Constrained Kinematic and Dynamic Variations for Improving Positional Accuracy**
Amruta Rout, National Institute of Technology, Rourkela, India
Deepak BBVL, National Institute of Technology, Rourkela, India
Bibhuti Bhusan Biswal, National Institute of Technology, Rourkela, India
Golak B. Mahanta, National Institute of Technology, Rourkela, India
- 180 **Swarm Intelligence-Based Uplink Power Control in Cognitive Internet of Things (CIoT) for Underlay Environment**
Babar Sultan, Department of Electrical Engineering, Abasyn University, Islamabad, Pakistan
Imran Shafi, Department of Electrical Engineering, Abasyn University, Islamabad, Pakistan
Jamil Ahmad, Kohat University of Science and Technology, Pakistan
- 195 **A Genetic Algorithm Approach to Parallel Machine Scheduling Problems Under Effects of Position-Dependent Learning and Linear Deterioration: Genetic Algorithm to Parallel Machine Scheduling Problems**
Oğuzhan Ahmet Arik, Nuh Naci Yazgan University, Turkey
Mehmet Duran Toksarı, Erciyes University, Turkey
- 212 **A New Memetic Approach to Solve the Strategic Berth Template Problem**
Issam El Hammouti, Department of Mathematics, Faculty of Science of Tetouan, Morocco
Azza Lajjam, National School of Applied Sciences, Abdelmalek Essaadi University, Morocco
Mohamed El Merouani, Department of Mathematics, Faculty of Science of Tetouan, Morocco

Copyright

The **International Journal of Applied Metaheuristic Computing (IJAMC)** (ISSN 1947-8283; eISSN 1947-8291), Copyright © 2021 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 Metaheuristic Computing* is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; DBLP; Google Scholar; INSPEC; JournalTOCs; MediaFinder; SCOPUS; The Standard Periodical Directory; UGC-CARE List (India); Ulrich's Periodicals Directory; Web of Science; Web of Science Emerging Sources Citation Index (ESCI)