

Table of Contents

International Journal of Grid and High Performance Computing

Volume 13 • Issue 2 • April-June-2021 • ISSN: 1938-0259 • eISSN: 1938-0267

Research Articles

- 1 **Efficient Energy Conservation and Faulty Node Detection on Machine Learning-Based Wireless Sensor Networks**
Amarasimha T., Rayalaseema University, India
V. Srinivasa Rao, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, India

- 21 **Network Blueprint for Maximizing the Lifetime of Smart Devices in Low Power IoT Networks**
Sarwesh P., Madanapalle Institute of Technology and Science, India
K. Chandrasekaran, National Institute of Technology and Science, Karnataka, India
Thamizharasan S., Madanapalle Institute of Technology and Science, India

- 39 **A New Social Volunteer Computing Environment With Task-Adapted Scheduling Policy (TASP)**
Nabil Kadache, LaSTIC Laboratory, Department of Computer Science, University of Batna 2, Algeria
Rachid Seghir, LaSTIC Laboratory, Department of Computer Science, University of Batna 2, Algeria

- 56 **Genetic Algorithm With Three-Dimensional Population Dominance Strategy for University Course Timetabling Problem**
Zhifeng Zhang, Software Engineering College, Zhengzhou University of Light Industry, China
Junxia Ma, Software Engineering College, Zhengzhou University of Light Industry, China
Xiao Cui, Software Engineering College, Zhengzhou University of Light Industry, China

- 70 **Performance Comparison of Various Algorithms During Software Fault Prediction**
Munish Khanna, Hindustan College of Science and Technology, India
Abhishek Toofani, Hindustan College of Science and Technology, India
Siddharth Bansal, Hindustan College of Science and Technology, India
Mohammad Asif, Hindustan College of Science and Technology, India

- 95 **Neural Network Inversion-Based Model for Predicting an Optimal Hardware Configuration: Solving Computationally Intensive Problems**
Mirvat Mahmoud Al-Qutt, Ain Shams University, Egypt
Heba Khaled, Ain Shams University, Egypt
Rania El Gohary, Ain Shams University, Egypt

- 118 **Remote Health Patient Monitoring System for Early Detection of Heart Disease**
Gokulnath Chandra Babu, Vellore Institute of Technology, India
Shantharajah S. P., Vellore Institute of Technology, India

COPYRIGHT

The *International Journal of Grid and High Performance Computing (IJGHP)* (ISSN 1938-0259; eISSN 1938-0267), 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 Grid and High Performance Computing* is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; Compendex (Elsevier Engineering Index); DBLP; GetCited; 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)