

Table of Contents

International Journal of Grid and High Performance Computing

Volume 12 • Issue 3 • July-September-2020 • ISSN: 1938-0259 • eISSN: 1938-0267

SPECIAL ISSUE ON INNOVATION IN INFORMATION TECHNOLOGY THROUGH SMART CLOUD AND ANALYTICS

EDITORIAL PREFACE

- iv *Upasana Geetanjali Singh, University of KwaZulu-Natal, South Africa*
Amit Banerjee, National University of Singapore, Singapore

RESEARCH ARTICLES

- 1 **sl-LSTM: A Bi-Directional LSTM With Stochastic Gradient Descent Optimization for Sequence Labeling Tasks in Big Data**
Nancy Victor, Vellore Institute of Technology, India
Daphne Lopez, Vellore Institute of Technology, India
- 17 **Intelligent Technique Based on Enhanced Metaheuristic for Optimization Problem in Internet of Things and Wireless Sensor Network**
Miloud Mihoubi, EEDIS Laboratory, Djillali Liabès University, Sidi Bel Abbès, Algeria & DAEI Laboratory, University of Ibn Khaldoun, Tيارت, Algeria
Abdellatif Rahmoun, LabRI-SBA Lab, École Supérieure en Informatique, Sidi Bel Abbes, Algeria
Meriem Zerkouk, University of Sciences and Technology - Mohamed Boudiaf, Bir El Djir, Algeria
Pascal Lorenz, IRIMAS Laboratory, University of Haute Alsace, Colmar, France
Lotfi Baidar, LabRI-SBA Lab, École Supérieure en Informatique, Sidi Bel Abbes, Algeria
- 43 **Effectiveness of Normalization Over Processing of Textual Data Using Hybrid Approach Sentiment Analysis**
Sukhnandan Kaur Johal, Thapar Institute of Engineering and Technology, India
Rajni Mohana, Jaypee University of Information Technology, India
- 57 **Machine Learning Evaluation for Music Genre Classification of Audio Signals**
Chetna Dabas, Jaypee Institute of Information Technology, India
Aditya Agarwal, Jaypee Institute of Information Technology, India
Naman Gupta, Jaypee Institute of Information Technology, India
Vaibhav Jain, Jaypee Institute of Information Technology, India
Siddhant Pathak, Jaypee Institute of Information Technology, India
- 68 **RFA Reinforced Firefly Algorithm to Identify Optimal Feature Subsets for Network IDS**
R. Rajakumar, Madanapalle Institute of Technology and Science, Madanapalle, India
K. Dinesh, Madanapalle Institute of Technology and Science, Madanapalle, India
Ankur Dumka, Women Institute of Technology, Dehradun, India
Jayakumar L, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, India
- 88 **DUICM Deep Underwater Image Classification Model using Convolutional Neural Networks**
Manimaran Aridoss, Department of Computer Applications, Madanapalle Institute of Technology and Science, India
Chandramohan Dhasarathan, Department of Computer Science and Engineering, Madanapalle Institute of Technology and Science, India
Ankur Dumka, Graphic Era (Deemed to be University), Dehradun, India
Jayakumar Loganathan, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, India

Copyright

The **International Journal of Grid and High Performance Computing (IJGIPC)** (ISSN 1938-0259; eISSN 1938-0267), Copyright © 2020 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; Ulrich's Periodicals Directory; Web of Science; Web of Science Emerging Sources Citation Index (ESCI)