

# Table of Contents

## International Journal of Ambient Computing and Intelligence

Volume 12 • Issue 2 • April-June-2021 • ISSN: 1941-6237 • eISSN: 1941-6245

### GUEST EDITORIAL PREFACE

- v      **Advances in Deep and Machine Learning for Data Mining, Knowledge Representation, and Reasoning**  
*K. C. Santosh, KC's PAMI Research Lab, Computer Science, University of South Dakota, USA*  
*Nilanjan Dey, JIS University, India*

### RESEARCH ARTICLES

- 1      **Testing Exchangeability With Martingale for Change-Point Detection**  
*Liang Dai, Halmstad University, Sweden*  
*Mohamed-Rafik Bouguella, Halmstad University, Sweden*
- 21     **Forward Context-Aware Clickbait Tweet Identification System**  
*Rajesh Kumar Mundotiya, Indian Institute of Technology, Varanasi, India*  
*Naina Yadav, Indian Institute of Technology, Varanasi, India*
- 33     **Analysis of Sentiment on Movie Reviews Using Word Embedding Self-Attentive LSTM**  
*Soubraylu Sivakumar, School of Computer Science and Engineering, Vellore Institute of Technology, Chennai, India*  
*Ratnavel Rajalakshmi, School of Computer Science and Engineering, Vellore Institute of Technology, Chennai, India*
- 53     **A Survey of Fog Computing-Based Healthcare Big Data Analytics and Its Security**  
*Rojalina Priyadarshini, C. V. Raman Global University, India*  
*Rabindra Kumar Barik, KIIT University (Deemed), India*  
*Harish Chandra Dubey, The University of Texas at Dallas, USA*  
*Brojo Kishore Mishra, GIET University, Gunupur, India*
- 73     **Multi-Step Clustering Approach of Myelinated Nerve Fibers in Experimental Neuromorphology**  
*Taras Kotyk, Ivano-Frankivsk National Medical University of the Ministry of Health of Ukraine, Ukraine*  
*Nadiya Tokaruk, Ivano-Frankivsk National Medical University of the Ministry of Health of Ukraine, Ukraine*  
*Viktoria Bedej, Ivano-Frankivsk National Medical University of the Ministry of Health of Ukraine, Ukraine*  
*Maria Hryshchuk, Ivano-Frankivsk National Medical University of the Ministry of Health of Ukraine, Ukraine*  
*Oksana Popadynets, Ivano-Frankivsk National Medical University of the Ministry of Health of Ukraine, Ukraine*  
*Yaroslav Kolinko, Charles University, Czech Republic*  
*João Manuel R. S. Tavares, Universidade do Porto, Portugal*
- 92     **CoAP-Based Lightweight Interoperability Semantic Sensor and Actuator Ontology for IoT Ecosystem**  
*Sukhavasi Suman, FSKTM, Universiti Putra Malaysia, Malaysia*  
*Thinakaran Perumal, FSKTM, Universiti Putra Malaysia, Malaysia*  
*Norwati Mustapha, FSKTM, Universiti Putra Malaysia, Malaysia*  
*Razali Yaakob, FSKTM, Universiti Putra Malaysia, Malaysia*  
*Mohd Anuaruddin Bin Ahmadon, Yamaguchi University, Japan*  
*Shingo Yamaguchi, Yamaguchi University, Japan*
- 111    **Detection and Classification of Leukocytes in Blood Smear Images: State of the Art and Challenges**  
*Renuka Veerappa Tali, K. S. School of Engineering and Management, India*  
*Surekha Borra, K. S. Institute of Technology, India*  
*Mufti Mahmud, Nottingham Trent University, UK*

### Copyright

The **International Journal of Ambient Computing and Intelligence (IJACI)** (ISSN 1941-6237; eISSN 1941-6245), 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 Ambient Computing and Intelligence* 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)