

# Table of Contents

## International Journal of Extreme Automation and Connectivity in Healthcare

Volume 1 • Issue 1 • January-June-2019 • ISSN: 2577-4794 • eISSN: 2577-4808

*An official publication of the Information Resources Management Association*

### INTERNATIONAL JOURNAL OF EXTREME AUTOMATION AND CONNECTIVITY IN HEALTHCARE:

#### EDITORIAL PREFACE

- v      Sabah Mohammed, Lakehead University, Thunder Bay, Canada  
Jinan Fiaidhi, Lakehead University, Thunder Bay, Canada

#### RESEARCH ARTICLES

- 1      **The Black Box Myth: Artificial Intelligence's Threat Re-Examined**  
Abraham Rudnick, Dalhousie University, Halifax Regional Municipality, Canada
- 4      **Virtual Communities, Machine Learning and IoT: Opportunities and Challenges in Mental Health Research**  
Christo El Morr, York University, Toronto, Canada
- 12     **Similarity Measure of Breast Cancer Datasets Using Fuzzy Rule-Based Classification by Attribute**  
Tengyue Li, University of Macau, Macau  
Simon Fong, University of Macau, Macau
- 29     **Efficacy of Telemedicine in Psychiatry and Mental Health Nursing**  
Michael Jones, Marshall University, Huntington, USA  
Girmay Berhie, Marshall University, Huntington, USA
- 40     **Discovery of Characteristic Sequential Patterns Based on Two Types of Constraints**  
Shigeaki Sakurai, Toshiba Digital Solutions, Kawasaki, Japan
- 55     **A Fast Feature Selection Method Based on Coefficient of Variation for Diabetics Prediction Using Machine Learning**  
Tengyue Li, University of Macau, Macau  
Simon Fong, University of Macau, Macau
- 66     **JSON-LD as an Interchange Technology to Facilitate Health Information Exchange**  
Daniel L. Kaukinen, Confederation College, Thunder Bay, Canada
- 79     **Cascading Workflow of Healthcare Services: Transforming COPD Related Clinical Narratives from Discharge Summaries Into a Standardized Order Set**  
Phillip Osial, Lakehead University, Thunder Bay, Canada  
Arnold Kim, Lakehead University and Thunder Bay Regional Health Science Center, Thunder Bay, Canada  
Kalle Kauranen, Lakehead University, Thunder Bay, Canada
- 96     **Prescriptive Grammar for Clinical Prescribing Workflow**  
Kalle Kauranen, Lakehead University, Thunder Bay, Canada  
Arnold Kim, Thunder Bay Regional Health Sciences Centre, Thunder Bay, Canada  
Phillip Osial, Lakehead University, Thunder Bay, Canada

#### Copyright

The **International Journal of Extreme Automation and Connectivity in Healthcare (IJEACH)** (ISSN 2577-4794; eISSN 2577-4808), Copyright © 2019 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.