

Table of Contents

International Journal of Extreme Automation and Connectivity in Healthcare

Volume 2 • Issue 1 • January-June-2020 • ISSN: 2577-4794 • eISSN: 2577-4808

SOCIOTECHNICAL APPROACH TO EXTREME AUTOMATION IN HEALTHCARE

EDITORIAL PREFACE

- iv Sabah Mohammed, Lakehead University, Ontario, Canada
Jinan Fiaidhi, Lakehead University, Ontario, Canada

RESEARCH ARTICLES

- 1 **The Dual-Tasking Texting Effect of Cell Phone Technology on Walking**
Asher Mendelsohn, Lakehead University, Thunder Bay, Canada
Carlos Zerpa, Lakehead University, Thunder Bay, Canada
- 15 **Long-Short Term Neural Network Analysis of Center of Pressure of Gait**
Arshia Khan, University of Minnesota, Duluth, USA
Janna Madden, University of Minnesota, Duluth, USA
- 35 **The Effect of Breathing Pattern and Heel Strike Pattern on Peak Ground Reaction Force at Initial Contact During Walking**
Paolo Sanzo, Lakehead University, Ontario, Canada
Cassandra Felice, Lakehead University, Ontario, Canada
Carlos Zerpa, Lakehead University, Ontario, Canada
- 48 **Fall Prevention and Management App Prototype for the Elderly and Their Caregivers: Design, Implementation, and Evaluation**
Eseohen Imoukhome, Dalhousie University, Nova Scotia, Canada
Lori E. Weeks, Dalhousie University, Nova Scotia, Canada
Samina Abidi, Dalhousie University, Nova Scotia, Canada
- 68 **An Electronic Medical Record System**
Muhammad Sarfraz, Kuwait University, Kuwait
Anwar F. Al-Hussainan, Kuwait University, Kuwait
Farah Mohammad, Kuwait University, Kuwait
Hanouf Al-Azmi, Kuwait University, Kuwait
- 103 **AIR POLLUTANTS CONCENTRATION PREDICTION BASED ON TRANSFER LEARNING AND RECURRENT NEURAL NETWORK**
Fong Iat Hang, Department of Computer and Information Science Faculty of Science and Technology University of Macau, Macau SAR, CHINA
Simon Fong, Department of Computer and Information Science Faculty of Science and Technology University of Macau, Macau SAR, CHINA
- 116 **MEASURING SIMILARITY BETWEEN BIOMEDICAL DATA BY USING FURIA ENSEMBLES RULE-BASED CLASSIFICATION**
Simon Fong, Department of Computer and Information Science, Faculty of Science and Technology, University of Macau, China
- 128 **Accessibility Monitoring for People with Disabilities: A Collaborative Virtual Community**
Ishita Saraswat, Faculty of Engineering, Dayalbagh Educational Institute, India
Aymen Braham, National School of Electronics and Telecommunication, University of Sfax, Tunisia
Nancy Viva Davis Halifax, York University, Canada
Christo El Morr, York University, Canada
- 138 **A Speech Clinic System for Children with Communication Disorder**
Muhammad Sarfraz, Kuwait University, Kuwait
Maha S. Almutairi, Kuwait University, Kuwait
Zahraa A. Jasem, Kuwait University, Kuwait
- 161 **Effects of Electronic Medical Record Downtime on Patient Safety, Downtime Mitigation, and Downtime Plans**
Joseph M. Walsh, University of Victoria, Victoria, Canada
Elizabeth M. Borycki, University of Victoria, Victoria, Canada
Andre W. Kushniruk, University of Victoria, Victoria, Canada

Copyright

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