### **Table of Contents**

### **Journal of Information Technology Research**

Volume 14 • Issue 3 • July-September-2021 • ISSN: 1938-7857 • eISSN: 1938-7865

#### **Research Articles**

#### 1 Cyber-Identity Theft and Fintech Services: Technology Threat Avoidance Perspective

Kwame Okwabi Asante-Offei, Ghana Institute of Management and Public Administration, Ghana Winfred Yaokumah, University of Ghana, Ghana

#### 20 A Novel Intrusion Detection System for Internet of Things Network Security

Arun Kumar Bediya, Jamia Millia Islamia University, India Rajendra Kumar, Jamia Millia Islamia University, India

#### 38 Semantic Querying of News Articles With Natural Language Questions

Tuan-Dung Cao, Hanoi University of Science and Technology, Vietnam Quang-Minh Nguyen, Hanoi University of Science and Technology, Vietnam

# 58 Investigation of the Software Code Vulnerabilities' Impact on the Popularity of Open Source Software Projects

Madanjit Singh, Guru Nanak Dev University, Amritsar, India Munish Saini, Guru Nanak Dev University, Amritsar, India Manevpreet Kaur, Guru Nanak Dev University, Amritsar, India

#### 70 Study on Green Construction Evaluation of Highway in Seasonal Frozen Zone

Zhenwu Shi, Northeast Forestry University, China Zhaolin Li, Northeast Forestry University, China Xianyu Tan, Northeast Forestry University, China Shuxin Hua, Northeast Forestry University, China

# 87 SO-AODV: A Secure and Optimized Ad-Hoc On-Demand Distance Vector Routing Protocol Over AODV With Quality Assurance Metrics for Disaster Response Applications

Karan Singh, M. M. Institute of Computer Technology and Business Management, Maharishi Markandeshwar University, Mullana, India

Rajeev Gupta, Department of Computer Science and Engineering, M. M. Engineering College, Maharishi Markandeshwar University, Mullana, India

#### COPYRIGHT

The Journal of Information Technology Research (JITR) (ISSN 1938-7857; eISSN 1938-7865), 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 Journal of Information Technology Research is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; Compendex (Elsevier Engineering Index); CSA Illumina; DBLP; GetCited; Google Scholar; INSPEC; JournalTOCs; MediaFinder; The Index of Information Systems Journals; The Standard Periodical Directory; UGC-CARE List (India); Ulrich's Periodicals Directory; Web of Science; Web of Science Emerging Sources Citation Index (ESCI)