Contents

1 Internet of Things-Based Digital Life to Provide Assisted Living for Visually Challenged Persons 1
Siba Kumar Udgata and Gogula Suvarna Kumar

2 Impact of Information and Communication Technology on Tourist Spending 19
Ana Laura Herrera-Prado, Elizabeth Olmos-Martínez, and Ernesto León-Castro

3 A Sustainable Approach to Manage the Inventory During Pandemic Through Passive RFID Tags 37
S. R. Singh, R. B. Singh, Akshika Rastogi, and Surbhi Singhal

4 Enhancing Agriculture Supply Chain Management Using Blockchain 47
Sandra Samuel, R. Maheswari, and N. Mohana

5 A Deep Analysis of Gilled Mushroom Edibility Prediction Using Dimensionality Reduction Techniques 67
Mahendra Kumar Gourisaria, Sandali Khare, Ayush V. Patel, Manoj Sahni, and Ernesto León-Castro

6 Smartphone Retail-Purchase Buying Intentions: Investigation of Planned Behaviour in Indian Context 93
Lingam Naveen, Rabi N. Subudhi, Abu Saleh, Aishwarya Mohanty, and Smruti Malhar Mahapatro

7 Automated Breast Cancer Detection Systems (Analytical Study) 111
Arwa H. Zabian

8 Breast Cancer Classification and Survival Prediction Using Proteomic Analysis 123
Kirti Aggarwal, Anuja Arora, and Joel Azzopardi

9 An Improved Approach in Cloud-Assisted IoT Infrastructure with Anonymous Key Issuing 139
Nishant Doshi and Chintan Patel

10 Parallelizing RP^2-NGSA-II for the Multicriteria Ranking Problem of Sets of Medium-Sized Alternatives Through OpenMP 147
Gastelum Chavira Diego Alonso

11 The Financial Portfolio Selection Using the Multiple Criteria Hierarchical Process and the Markowitz Model 165
Maria Bernal, Deyanira Velázquez, Pavel Anselmo Alvarez, Manuel Muñoz-Palma, and Ernesto León-Castro

12 Forecasting the Exchange Rate in Diffuse Time Series by Hybridization of the OWA Operator in an Adaptive ARANFIS Neuronal Network 183
Diego Quintero-Avellaneda, Fabio Blanco-Mesa, Ernesto León-Castro, Andrés Alejandro Fernández Rosas, and Dianny Fernandez-Samacaa

13 Fuzzy Risk Analysis Assessment Applied to Value Stream Mapping 197
Luis Pérez-Domínguez, Pedro Ángel García Aguirre, Delia-Julieta Valles-Rosales, David Luviano-Cruz, and Erwin Martínez Gómez

14 Classification of the Population Health Status with the MR-Sort Method 213
Veronica Larreta, Pavel Anselmo Alvarez, Tania Gadea, Alejandra Duarte, and Ernesto León-Castro

15 A Bibliometric Analysis of Problem Structuring Between 1980 and 2019 227
Kenia Sanchez-Valenzuela, Diego Alonso Gastélum Chavira, Ernesto León-Castro, and Denisse Ballardo-Cárdenas

16 Study of Some Properties and Behavior of the Group of Signed Quadratic Residues and Its Applications to Cryptography 249
Pinkimani Goswami and Madan Mohan Singh