

Contents

Soft Computing Techniques and Sustainability Science, an Introduction	1
Carlos Cruz Corona	
Vessels Fuel Consumption: A Data Analytics Perspective to Sustainability	11
Andrea Coraddu, Luca Oneto, Francesco Baldi and Davide Anguita	
FuzzyCovering: A Spatial Decision Support System for Solving Fuzzy Covering Location Problems	49
Virgilio C. Guzmán, David A. Pelta and José Luis Verdegay	
A Fuzzy Location Problem Based Upon Georeferenced Data	67
Airam Expósito-Márquez, Christopher Expósito-Izquierdo, Belén Melián-Batista and J. Marcos Moreno-Vega	
A Review of the Application to Emergent Subfields in Viticulture of Local Reflectance and Interactance Spectroscopy Combined with Soft Computing and Multivariate Analysis	87
Armando Fernandes, Véronique Gomes and Pedro Melo-Pinto	
Consumer Segmentation Through Multi-instance Clustering Time-Series Energy Data from Smart Meters	117
Alejandro Gómez-Boix, Leticia Arco and Ann Nowé	
A Multicriteria Group Decision Model for Ranking Technology Packages in Agriculture	137
Juan Carlos Leyva López, Pavel Anselmo Álvarez Carrillo and Omar Ahumada Valenzuela	
Fuzzy Degree of Geographic Appropriateness for Social Impact Investing	163
Vicente Liern and Blanca Pérez-Gladish	

A New Approach for Information Dissemination in VANETs Based on Covering Location and Metaheuristics 179
Antonio D. Masegosa, Idoia de la Iglesia, Unai Hernandez-Jayo,
Luis Enrique Diez, Alfonso Bahillo and Enrique Onieva

Product Matching to Determine the Energy Efficiency of Used Cars Available at Internet Marketplaces 203
Mario Rivas-Sánchez, Maria P. Guerrero-Lebrero, Elisa Guerrero,
Guillermo Bárcena-Gonzalez, Jaime Martel and Pedro L. Galindo

Fault Diagnosis in a Steam Generator Applying Fuzzy Clustering Techniques 217
Adrián Rodríguez Ramos, Rayner Domínguez García,
José Luis Verdegay Galdeano and Orestes Llanes Santiago

An Updated Review on Watershed Algorithms 235
R. Romero-Zaliz and J.F. Reinoso-Gordo

An Application Sample of Machine Learning Tools, Such as SVM and ANN, for Data Editing and Imputation 259
Esther-Lydia Silva-Ramírez, Manuel López-Coello
and Rafael Pino-Mejías

Multimodal Transport Network Problem: Classical and Innovative Approaches 299
Juliana Verga, Ricardo C. Silva and Akebo Yamakami

A Linguistic 2-Tuple Based Environmental Impact Assessment for Maritime Port Projects: Application to Moa Port 333
Yeleny Zulueta, Rosa M. Rodríguez and Luis Martínez

Soft Computing for Sustainability Science

Cruz, C. (Ed.)

2018, XVI, 348 p. 83 illus., 32 illus. in color., Hardcover

ISBN: 978-3-319-62358-0