

Advances in Intelligent Systems and Computing

Volume 950

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14th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2019)

Seville, Spain, May 13–15, 2019, Proceedings

 Springer

International Conference on

Soft Computing Models in Industrial
and Environmental Applications

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Preface

This volume of *Advances in Intelligent and Soft Computing* contains accepted papers presented at SOCO 2019 conference held in the beautiful and historic city of Seville (Spain), in May 2019.

Soft computing represents a collection or set of computational techniques in machine learning, computer science and some engineering disciplines, which investigate, simulate and analyze very complex issues and phenomena.

After a thorough peer review process, the 14th SOCO 2019 International Program Committee selected 57 papers which are published in these conference proceedings and represented an acceptance rate of 45%. In this relevant edition, a special emphasis was put on the organization of special sessions. Four special sessions were organized related to relevant topics as: Soft Computing Methods in Manufacturing and Management Systems; Soft Computing Applications in the Field of Industrial and Environmental Enterprises; Optimization, Modeling and Control by Soft Computing Techniques and Soft Computing in Aerospace, Mechanical and Civil Engineering: New methods and Industrial Applications.

The selection of papers was extremely rigorous in order to maintain the high quality of the conference, and we would like to thank the members of the Program Committees for their hard work in the reviewing process. This is a crucial process to the creation of a high-standard conference, and the SOCO conference would not exist without their help.

SOCO 2019 enjoyed outstanding keynote speeches by distinguished guest speakers: Prof. Dieu Tien Bui (University of South-Eastern Norway, Norway), Prof. Juan Manuel Corchado (University of Salamanca, Spain) and Prof. Julien Jacques (University of Lyon, France).

SOCO 2019 has teamed up with Neurocomputing (Elsevier) and Logic Journal of the IGPL (Oxford Academic) for a suite of special issues including selected papers from SOCO 2019. Furthermore, papers from a particular special session will be also considered for publication in special issues in Cybernetics and Systems: An International Journal (Taylor & Francis) and Expert Systems (Wiley).

Particular thanks go as well to the conference main sponsors, Startup Ole and IEEE SMC Spanish Chapter, who jointly contributed in an active and constructive manner to the success of this initiative.

We would like to thank all the special session organizers, contributing authors, as well as the members of the Program Committees and the Local Organizing Committee for their hard and highly valuable work. Their work has helped to contribute to the success of the SOCO 2019 event.

May 2019

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Contents

Machine Learning

Indexes to Find the Optimal Number of Clusters in a Hierarchical Clustering	3
José David Martín-Fernández, José María Luna-Romera, Beatriz Pontes, and José C. Riquelme-Santos	
Analysis and Application of Normalization Methods with Supervised Feature Weighting to Improve K-means Accuracy	14
Iratxe Niño-Adan, Itziar Landa-Torres, Eva Portillo, and Diana Manjarres	
Classifying Excavator Operations with Fusion Network of Multi-modal Deep Learning Models	25
Jin-Young Kim and Sung-Bae Cho	
A Study on Trust in Black Box Models and Post-hoc Explanations	35
Nadia El Bekri, Jasmin Kling, and Marco F. Huber	
A Study on Hyperparameter Configuration for Human Activity Recognition	47
Kemilly D. Garcia, Tiago Carvalho, João Mendes-Moreira, João M. P. Cardoso, and André C. P. L. F. de Carvalho	
A Fuzzy Approach for Sentences Relevance Assessment in Multi-document Summarization	57
Eduardo Valladares-Valdés, Alfredo Simón-Cuevas, José A. Olivas, and Francisco P. Romero	
Online Estimation of the State of Health of a Rechargeable Battery Through Distal Learning of a Fuzzy Model	68
Luciano Sánchez, José Otero, Manuela González, David Anseán, and Inés Couso	

A Proposal for the Development of Lifelong Dialog Systems 78
David Griol, Araceli Sanchis, and Jose Manuel Molina

Smart Cities and IOT

Real-Time Big Data Analytics in Smart Cities from LoRa-Based IoT Networks 91
Antonio M. Fernández, David Gutiérrez-Avilés, Alicia Troncoso, and Francisco Martínez-Álvarez

Deep Learning in Modeling Energy Cost of Buildings in the Public Sector 101
Marijana Zekić-Sušac, Marinela Knežević, and Rudolf Scitovski

Framework for the Detection of Physiological Parameters with Musical Stimuli Based on IoT 111
Mario Alcántara-Garrote, Ana B. Gil-González, Ana de Luis Reboredo, María N. Moreno, and Belén Pérez-Lancho

Edge Computing Architectures in Industry 4.0: A General Survey and Comparison 121
Inés Sittón-Candanedo, Ricardo S. Alonso, Sara Rodríguez-González, José Alberto García Coria, and Fernando De La Prieta

Predictive Maintenance from Event Logs Using Wavelet-Based Features: An Industrial Application 132
Stéphane Bonnevey, Jairo Cugliari, and Victoria Granger

Building Robust Prediction Models for Defective Sensor Data Using Artificial Neural Networks 142
Cláudio Rebelo de Sá, Arvind Kumar Shekar, Hugo Ferreira, and Carlos Soares

Temporal Data Analysis

Ensemble Deep Learning for Forecasting ²²²Rn Radiation Level at Canfranc Underground Laboratory 157
Miguel Cárdenas-Montes and Iván Méndez-Jiménez

Search of Extreme Episodes in Urban Ozone Maps 168
Miguel Cárdenas-Montes

A Novel Heuristic Approach for the Simultaneous Selection of the Optimal Clustering Method and Its Internal Parameters for Time Series Data 179
Adriana Navajas-Guerrero, Diana Manjarres, Eva Portillo, and Itziar Landa-Torres

A Hybrid Approach for Short-Term NO₂ Forecasting: Case Study of Bay of Algeciras (Spain) 190
 Steffanie Van Roode, Juan Jesus Ruiz-Aguilar, Javier González-Enrique, and Ignacio J. Turias

Context-Aware Data Mining vs Classical Data Mining: Case Study on Predicting Soil Moisture 199
 Anca Avram, Oliviu Matei, Camelia-M. Pinteá, Petrica C. Pop, and Carmen Ana Anton

DTW as Alignment Function in the Context of Time Series Balancing 209
 Enrique de la Cal, José Ramón Villar, and Javier Sedano

Feature Clustering to Improve Fall Detection: A Preliminary Study 219
 Mirko Fáñez, José Ramón Villar, Enrique de la Cal, Víctor M. González, and Javier Sedano

Data Generation and Preparation

Creation of Synthetic Data with Conditional Generative Adversarial Networks 231
 Belén Vega-Márquez, Cristina Rubio-Escudero, José C. Riquelme, and Isabel Nepomuceno-Chamorro

Data Selection to Improve Anomaly Detection in a Component-Based Robot 241
 Nuño Basurto and Álvaro Herrero

Addressing Low Dimensionality Feature Subset Selection: ReliefF(-k) or Extended Correlation-Based Feature Selection(eCFS)? 251
 Antonio J. Tallón-Ballesteros, Luís Cavique, and Simon Fong

A Predictive Maintenance Model Using Recurrent Neural Networks 261
 Alberto Rivas, Jesús M. Fraile, Pablo Chamoso, Alfonso González-Briones, Inés Sittón, and Juan M. Corchado

Soft Computing Applications

Prototypical Metric Transfer Learning for Continuous Speech Keyword Spotting with Limited Training Data 273
 Harshita Seth, Pulkit Kumar, and Muktabh Mayank Srivastava

Characteristic of WiFi Network Based on Space Model with Using Turning Bands Co-simulation Method 281
 Anna Kamińska-Chuchmała

Inconsistency Detection on Data Communication Standards Using Information Extraction Techniques: The ABP Case	291
Sonia León, José Antonio Rodríguez-Mondéjar, and Cristina Puente	
Mobile Architecture for Forest Fire Simulation Using PhyFire-HDWind Model	301
Alejandro Hernández, David Álvarez, M. Isabel Asensio, and Sara Rodríguez	
A Proposal of Robust Leak Localization in Water Distribution Networks Using Differential Evolution	311
Maibeth Sánchez-Rivero, Marcos Quiñones-Grueiro, Carlos Cruz Corona, Antônio J. Silva Neto, and Orestes Llanes-Santiago	
Neural Model of a Specific Single Proton Exchange Membrane PEM Fuel Cell	321
Jose Manuel Lopez-Guede, Manuel Graña, and Julian Estevez	
Special Session - Soft Computing Methods in Manufacturing and Management Systems	
A Hybrid Heuristic Algorithm for Multi-manned Assembly Line Balancing Problem with Location Constraints	333
Damian Krenczyk and Karol Dziki	
A Comparison Analysis of the Computer Simulation Results of a Real Production System	344
Cezary Grabowik, Grzegorz Ćwikła, Krzysztof Kalinowski, and Magdalena Kuc	
Multiple Fault Diagnosis in Manufacturing Processes and Machines Using Probabilistic Boolean Networks	355
Pedro J. Rivera Torres, Antônio José Silva Neto, and Orestes Llanes Santiago	
Concurrent Planning and Scheduling of Heterogeneous Production System. Case Study	366
Bożena Skołod, Agnieszka Szopa, and Krzysztof Kalinowski	
Multi-domain, Advisory Computing System in Continuous Manufacturing Processes	376
Krzysztof Niemiec and Damian Krenczyk	
Assessment of Similarity of Elements as a Basis for Production Costs Estimation	386
Grzegorz Ćwikła, Cezary Grabowik, Krzysztof Bańczyk, and Łukasz Wiecha	

Special Session - Soft Computing Applications in the Field of Industrial and Environmental Enterprises

Outlier Generation and Anomaly Detection Based on Intelligent One-Class Techniques over a Bicomponent Mixing System 399
 Esteban Jove, José-Luis Casteleiro-Roca, Héctor Quintián, Juan Albino Méndez-Pérez, and José Luis Calvo-Rolle

Material Flow Optimization Using Milk Run System in Automotive Industry 411
 Dragan Simić, Vasa Svirčević, Vladimir Ilin, Svetislav D. Simić, and Svetlana Simić

Smart PPE and CPE Platform for Electric Industry Workforce 422
 Sergio Márquez Sánchez, Roberto Casado Vara, Francisco Javier García Criado, Sara Rodríguez González, Javier Prieto Tejedor, and Juan Manuel Corchado

Acoustic Anomaly Detection Using Convolutional Autoencoders in Industrial Processes 432
 Taha Berkay Duman, Bariş Bayram, and Gökhan İnce

One-Class Classification to Predict the Success of Private-Participation Infrastructure Projects in Europe 443
 Álvaro Herrero and Alfredo Jiménez

Optimizing a Bi-objective Vehicle Routing Problem Appearing in Industrial Enterprises 452
 Ana D. López-Sánchez, Alfredo G. Hernández-Díaz, Julián Molina, and Manuel Laguna

An Industrial Application of Soft Computing for the Design of Personalized Call Centers 463
 David Griol, Jose Manuel Molina, and Araceli Sanchis

A Preliminary Study on Multivariate Time Series Clustering 473
 Iago Vázquez, José R. Villar, Javier Sedano, and Svetlana Simić

Adaptive Fault-Tolerant Tracking Control Algorithm for IoT Systems: Smart Building Case Study 481
 Roberto Casado-Vara, Fernando De la Prieta, Sara Rodriguez, Ines Sitton, Jose L. Calvo-Rolle, G. Kumar Venayagamoorthy, Pastora Vega, and Javier Prieto

**Special Session - Optimization, Modeling and Control
by Soft Computing Techniques**

Low Voltage Grid Operation Scheduling Considering Forecast Uncertainty	493
Albert Ferrer, Ferran Torrent-Fontbona, Joan Colomer, and Joaquim Meléndez	
Iterative Learning Control for a Hydraulic Cushion	503
Ignacio Trojaola, Iker Elorza, Eloy Irigoyen, Aron Pujana, and Carlos Calleja	
Opinion Mining to Detect Irony in Twitter Messages in Spanish	513
Daniela E. Sanjinés, Vivian F. López, Ana B. Gil, and María N. Moreno	
An Efficient Soft Computing Approach for Solving the Two-Stage Transportation Problem with Fixed Costs	523
Ovidiu Cosma, Petrica Pop, and Ioana Zelina	
Takagi-Sugeno Fuzzy Incremental State Model for Optimal Control of a Ball and Beam Nonlinear Model	533
Basil Mohammed Al-Hadithi, José Miguel Adánez, and Agustín Jiménez	
Time-Oriented System to Control Critical Medications	544
Cristina Puente, Alejandro Sobrino, Augusto Villa-Monte, and Jose Angel Olivas	
 Special Session - Soft Computing in Aerospace, Mechanical and Civil Engineering: New Methods and Industrial Applications	
An Introduction to Some Methods for Soft Computing in Fluid Dynamics	557
Soledad Le Clainche	
A Data-Driven ROM Based on HODMD	567
Víctor Beltrán, Soledad Le Clainche, and José M. Vega	
Soft Computing Techniques to Analyze the Turbulent Wake of a Wall-Mounted Square Cylinder	577
Christian Amor, José M. Pérez, Philipp Schlatter, Ricardo Vinuesa, and Soledad Le Clainche	
Generating Three-Dimensional Fields from Two-Dimensional Soft Computing Strategies	587
José Miguel Pérez, Soledad Le Clainche, and José Manuel Vega	

Low Cost Methods for Computing Instabilities in Boundary Layer Flows	596
Juan A. Martin and Pedro Paredes	
Author Index	607