

Program of the 11th European Symposium on Computational Intelligence and Mathematics

October 2nd - 5th, 2019, Toledo, Spain



WEDNESDAY 2 nd	
Location: San Pedro Mártir building. Toledo	
8:30	Open Registration Desk
9:30–10:00	Inauguration
10:00–11:00	Keynote Speaker - José Luis Verdegay Chairperson: Jesús Medina Room: El Teatrillo
11:00–11:20	Coffee break
11:20–12:30	Session S1. Chairperson: José Luis Verdegay Room: El Teatrillo
	<i>A new exploitation scheme in the context of bipolar classifiers</i> Guillermo Villarino Martínez, Daniel Gomez, J. Tinguaro Rodríguez and Alberto Fernández
	<i>Dynamic maximal covering location problem with facility types and time dependent availability</i> Cynthia Porras, Jenny Fajardo Calderín, Alejandro Rosete, Raúl Alvarez and David Pelta.
	<i>Implicative linguistic summaries</i> María Eugenia Cornejo and Jesús Medina

12:30–13:30	Session S2. Chairperson: Andreja Tepavcevic Room: El Teatrillo
	<i>Some relationships between the notions of f-inclusion and f-contradiction</i> Nicolás Madrid and Manuel Ojeda-Aciego
	<i>Decomposition integrals for interval-valued functions</i> Adam Šeliga
	<i>A Mostert & Shields-type Characterization for Group-like Uninorms</i> Sándor Jenei
13:30–14:40	Lunch
14:40–15:40	Keynote Speaker - Andreja Tepavcevic Title: Special lattice valued structures and approximate solutions of linear equations Chairperson: László T. Kóczy Room: El Teatrillo
15:40–16:00	Coffee break
16:00–18:00	Parallel Session S3a. Chairperson: László T. Kóczy Room: El Teatrillo
	<i>Enhanced Comparison of Discrete Memetic Evolutionary Metaheuristics which are able to apply for TSP</i> Gergő Fogarasi, Boldizsár Tüü-Szabó, Péter Földesi and László T. Kóczy
	<i>Syntactic analysis of sentences using deep neural networks</i> David Muñoz-Valero, Luis Rodríguez-Benítez, Luis Jiménez Linares and Juan Moreno García
	<i>Estimating Remaining Time in Business Processes using Structural Attributes of the Traces</i> Ahmad Aburomman, Manuel Lama and Alberto Bugarín
	<i>Convolutional Neural Networks in the Ovarian Cancer Detection</i> Piotr A. Kowalski, Jakub Błoniarczyk and Łukasz Chmura
	<i>Analyzing the performance of TSP solver methods</i> Boldizsár Tüü-Szabó, Péter Földesi and László T. Kóczy
	<i>Fuzzy Decision Support Methodology for Sustainable Packaging System Design</i> Adrienn Buruzs, Kata Vöröskői, Gergő Fogarasi and László T. Kóczy
16:00–18:00	Parallel Session S3b. Chairperson: Manuel Ojeda-Aciego Room: Sala de prensa
	<i>Relational powerset theories</i> Jiri Mockor
	<i>On some categories underlying knowledge graphs</i> Ondrej Kridlo, Manuel Ojeda-Aciego, Tim Put and Marek Reformat
	<i>On two categories of many-level fuzzy morphological spaces</i> Alexander Sostak and Ingrida Uljane
	<i>Congruences on lattices and lattice-valued functions</i> Branimir Seselja and Andreja Tepavcevic
	<i>Some Roughness Features of Fuzzy Sets</i> Zoltán Ernő Csajbók
	<i>On some generalizations of the Choquet integral</i> Andrea Stupnanova
19:00	Welcome reception

THURSDAY 3rd**Room: El Teatrillo. San Pedro Mártir building**

9:00–9:50	Keynote Speaker - Juan Moreno-García Title: Generating linguistic descriptions using Linguistic Petri Nets Chairperson: José Luis Verdegay
9:50–11:00	Session S4. Chairperson: Juan Moreno-García
	<i>A fuzzy model to aggregate performance indicators in sports</i> Francisco Romero, Eusebio Angulo, Jesús Serrano-Guerrero and Jose A. Olivas-Varela
	<i>Formal analysis of solar power and weather data</i> María Eugenia Cornejo, Jesús Medina and Clemente Rubio-Manzano
	<i>Parametric optimisation of line and shape detection algorithms in driving assistance applications</i> Luis Rodríguez-Benítez, Juan Giralt, Luis Jiménez Linares, Juan Moreno-García, Juan Alfredo García-García and Victor Hugo Menéndez Domínguez
11:00–11:20	Coffee break
11:20–13:30	Session S5. Chairperson: László T. Kóczy
	<i>Combining Symbolic Unfolding and Tuning Techniques for Fuzzy Logic Programs</i> Gines Moreno and José Antonio Rianza Valverde
	<i>A weakened notion of congruence to reduce concept lattices</i> Roberto García-Aragón, Jesús Medina and Eloísa Ramírez-Poussa
	<i>Interactive search by means of the minimal generators</i> Pablo Cordero, Manuel Enciso, Ángel Mora, Manuel Ojeda-Aciego and Carlos Rossi
	<i>Knowledge implications in multi-adjoint concept lattices</i> Eloísa Ramírez-Poussa, Jesús Medina and Pablo Navareño
	<i>TinyPaella: A formal tool for FCA context's debugging</i> Gonzalo A. Aranda-Corral, Joaquín Borrego-Díaz, Antonia M. Chávez-González and Juan Galán-Páez
13:30–15:00	Lunch
17:00–20:00	Toledo tour. Cathedral of Toledo
20:00	Gala dinner. Restaurante Museo Alcázar de Toledo

FRIDAY 4th	
Room: El Teatrillo. San Pedro Mártir building	
10:00–11:00	Keynote Speaker - Joao Carvalho Title: Recommender Systems: Using Fuzzy Fingerprints for “Proper” Recommendations Chairperson: László T. Kóczy
11:00–11:20	Coffee break
11:20–13:30	Session S6. Chairperson: Joao Carvalho
	<i>A new community detection problem based on bipolar fuzzy measures</i> Inmaculada Gutiérrez, Daniel Gómez, Javier Castro and Rosa Espínola
	<i>Novel methods of FCM model reduction</i> Miklós Hatwágner and László T. Kóczy
	<i>Some Implications of Interval Approach to Dimension for Network Complexity</i> Vera Kurkova
	<i>Social indexes segregation based on MEOWA and MOOWA aggregation operators</i> Nuria Martinez, Daniel Gomez, Karina Rojas, Pablo Olaso and Javier Montero
	<i>Combining conceptual graphs and sentiment analysis for fake news detection</i> Walter Rene Cuenca, César González Fernández, Alberto Fernández, Isaac Martín De Diego and Alejandro García de Marina Martín
13:40–15:00	Closing Session
15:00–16:00	Visit San Pedro Mártir building
19:30–21:00	Night Toledo tour

SATURDAY 5th	
10:00	Round table Seventh International Workshop on Mathematics and Soft Computing
14:00	Round table Tenth Győr Symposium on Computational Intelligence

Social Events

WEDNESDAY 2nd

19:00 **Welcome reception**

THURSDAY 3rd

17:00–20:00 **Toledo tour. Cathedral of Toledo**

20:00 **Gala dinner. Alcázar of Toledo**

FRYDAY 4th

13:40–15:00 **Closing Session**

19:30–21:00 **Night Toledo tour**

SATURDAY 5th

9:00–17:00 **Visit to Aranjuez**