

Program of the
16th European Symposium
on Computational Intelligence and Mathematics
including Workshop DigForASP
May 18th - 21st, 2025. A Coruña, Spain



MONDAY 19th**Location: EXE Eurostarts Hotel**

8:30	Open Registration Desk
9:00–9:30	Inauguration
9:30–10:20	Keynote Speaker - Vladik Kreinovich Title: TBA. Chairperson: TBA.
10:20–11:20	Regular Session S1 Chairperson: Vladik Kreinovich
	<i>Pedagogic Virtual Assistant supported by Fusion of Fuzzy Rule-based Explainers</i> Pablo Pérez, Alejandro Catalá, Alberto Bugarín, José Alonso
	<i>Fuzzy Weighted Shapley Values based on Nearest Neighbor Classification</i> Marcin Ostrowski, Katarzyna Kaczmarek-Majer, Jan Budzianowski, Paweł Burchardt, Janusz Rzeźniczak
	<i>Logarithmic Number System Is Optimal for AI Computations: Theoretical Explanation of Empirical Success</i> Olga Kosheleva, Vladik Kreinovich, Christoph Lauter, Kristalys Ruiz-Rohena
11:20–11:40	Coffee break
11:40–13:20	Special Session: Homage to Alexander Šostak Chairperson: Olga Grigorenko
	<i>Relational Characterization of b-Metrics</i> Olga Grigorenko
	<i>On Application of Formal Fuzzy Contexts in Data Comparison Models</i> Maris Krastins
	<i>Solving linear equations using generalized equality</i> Branimir Šešelja, Andreja Tepavčević
	<i>Degree of validity of attribute implications based on multi-adjoint concept-forming</i> M. Eugenia Cornejo, Jesús Medina, Francisco J. Ocaña-Alcázar
	<i>(Ab) Comparison of Formal Concept Analysis and k-means Clustering on Healthcare Dataset</i> Štefan Puci, Matúš Semančík, Dominika Kotlárová, L'ubomír Antoni, Peter Eliaš, Ján Guniš, Stanislav Krajčí, Ondrej Krídlo, L'ubomir Šnajder
13:20–14:40	Lunch

14:40–15:30	Keynote Speaker - Marek Reformat Title: TBA. Chairperson: TBA.
15:30–16:00	Coffee break
16:00–17:20	Regular Session S2 Chairperson: Marek Reformat
	<i>Decision-making based on confirmation measures</i> Fernando Chacón-Gómez, M. Eugenia Cornejo, Jesús Medina
	<i>Network Visualization of a Fuzzy Measure</i> Carlos I. Pérez-Sechi, Javier Castro, Daniel Gómez, Inmaculada Gutiérrez, Daniel Martín, Rosa Espínola
	<i>Complex-Valued Neural Networks: Applications and Performance in Image Classification</i> Piotr A. Kowalski, Michał Rutkowski
	<i>The granular structure of covering-based rough sets generated by the Mapper algorithm</i> Wannes De Maeyer, Mauricio Restrepo, Chris Cornelis
17:20–18:15	Regular Session S3 Chairperson: Radko Mesiar
	<i>Problem of distributivity between 2-uninorms and quasy-linear means</i> Dragan Jočić
	<i>Choquet-inspired functions</i> Humberto Bustince, Radko Mesiar, Gracaliz Dimuro, Bernard De Baets
	<i>(Ab) Unifunctions, a new class of functions for bipolar modeling</i> Juraj Kalafut, Martin Kalina
19:30	Welcome reception

TUESDAY 20th

Location: EXE Eurostarts Hotel

9:00–9:50	Keynote Speaker - Pedro Cabalar Title: TBA. Chairperson: TBA.
9:50–10:50	Workshop DigForASP. Session 1 Chairperson: Pedro Cabalar
	<i>Formal Verification of Social Engineering in Information-Seeking Dialogues</i> Andreas Brännström, Juan Nieves
	<i>Blueprint Personas in Digital Forensics and Cybersecurity</i> Alina Vozna, Stefania Costantini, Andrea Monaldini, Raffaele Olivieri
	<i>(Ab) SM-based Semantics for Answer Set Programs Containing Conditional Literals and Arithmetic</i> Yuliya Lierler
10:50–11:10	Coffee break
11:10–12:10	Workshop DigForASP. Session 2 Chairperson: Stefania Costantini
	<i>Recursive Aggregates as Intensional Functions in Answer Set Programmin</i> Jorge Fandinno, Zachary Hansen
	<i>Temporal Rules for Fraud Detection</i> Przemyslaw Walega
	<i>Advanced DDoS Detection in Autonomous Vehicles Through Eye Gaze and Time Headway Monitoring</i> Jamal Raiyn
12:10–13:40	Special Session: Decision and optimization model applied to logistics and transport Chairperson: Julio Alberto López-Gómez
	<i>Time-Dependent Triangular Fuzzy Soft Set Model for Describing Traffic Dynamics</i> Boldizsár Tüü-Szabó, Ruba AlMahasneh, László T. Kóczy
	<i>Learning label ranking trees using evolutionary algorithms</i> Arturo Fernández-Mora, José Antonio Gámez, Juan Carlos Alfaro, Juan Moreno-García
	<i>(Ab) Fuzzy logic applied to decision and optimization models</i> David Muñoz Valero, Juan Moreno-García, Julio Alberto López-Gómez, Enrique Adrián Villarrubia-Martín
	<i>A multi-adjoint lattice logic based on Gödel logic</i> M. Eugenia Cornejo, Francesc Esteva, Luis Fariñas del Cerro, Lluís Godo, Jesús Medina
	<i>Relations Among Intermediate Syllogisms</i> Petra Murinová, Vilém Novak
13:40–15:00	Lunch
15:00–16:15	Regular Session S4 Chairperson: Manuel Ojeda-Aciego
	<i>On testing hypotheses in fuzzy surroundings</i> Aleksandar Takači, Ivana Štajner-Papuga, Zagorka Lozanov-Crvenković, Gabriijela Grujić, Tatjana Došenović, Dragan Jočić
	<i>Kolmogorov Representation Theorem Explained in Terms of Fuzzy Partitions</i> Irina Perfilieva
	<i>Systems of fuzzy relational equations in case of a complete codomain lattice</i> Vanja Stepanović, Andreja Tepavčević
	<i>(Ab) WAMs based on a pair of n-tuples (w, b) and their relationship to OWA and IOWA operators</i> Andrea Stupňanová, Radko Mesiar, Radomír Halaš, Jozef Pócz
17:00–19:30	A Coruña tour
20:00	Gala dinner

WEDNESDAY 21st**Location: EXE Eurostarts Hotel**

10:00–10:50	Keynote Speaker - Bernadette Bouchon-Meunier Title: TBA. Chairperson: TBA.
10:50–11:10	Coffee break
11:10–12:00	Regular Session S5 Chairperson: Bernadette Bouchon-Meunier
	<i>Analytical Properties of General Unary Hypotheses Automaton Quantifiers</i> Martina Daňková
	<i>(Ab) Linear spline copulas</i> Radko Mesiar, Andrea Stupňanová, Fateme Kouchakinejad
	<i>(Ab) Some notes on permutation-equivariant decomposition integrals</i> Adam Šeliga
12:00–13:40	Special Session: Recent trends in knowledge representation and modelling Chairperson: Roberto G. Aragón
	<i>Vertical sum of concept lattices via bonds</i> Roberto G. Aragón, Jesús Medina, Samuel Molina
	<i>Bipolar max-product fuzzy relation equations with floor negation</i> Antonio Castejón, David Lobo, Pablo López-Molina
	<i>(Ab) New Simplification Rules for Databases with Positive and Negative Attributes</i> Domingo López-Rodríguez, Manuel Ojeda-Hernández, Carlos Bejines
	<i>(Ab) Formal concept analysis and its fuzzy extensions for Light-Bot game solutions</i> Dominika Kotlářová, Peter Eliaš, Ján Guniš, L'ubomir Antoni, Stanislav Krajčí, Ondrej Krídlo, L'ubomír Šnajder
	<i>(Ab) Composition as a fuzzy conjunction between indexes of inclusion</i> Nicolás Madrid, Manuel Ojeda-Aciego
	<i>(Ab) Towards the use of the f-index of inclusion for fuzzy reasoning</i> Nicolás Madrid, Eloísa Ramírez-Poussa, Carolina Díaz-Montarroso
13:40–15:00	Closing Session

Social Events	
SUNDAY 18 th	
09:30	Tour. The details will be announced very soon.
MONDAY 19 th	
19:30	Welcome reception
TUESDAY 20 th	
16:30–19:30	A Coruña tour
20:00	Gala dinner
WEDNESDAY 21 st	
13:40–15:00	Closing Session