

14th Conference of The European Society for Fuzzy Logic and Technology
July 21 - July 25, 2025, Riga
Program

Monday, July 21			
08.00-09.00	Registration		
09.00-09.30	Opening, <i>Alfa</i>		
09.30-10.30	Plenary talk, Alfa <i>Oscar Cordón</i> Title: Artificial Intelligence for Skeleton-Based Biological Profiling and Forensic Human Identification Chairman: Martin Štěpnička		
10.30-11.00	Coffee break		
	Mathematical Fuzzy Logic <i>Chairman: Tommaso Flaminio</i> <i>Alfa</i>	Information Fusion Techniques I <i>Chairman: Humberto Bustince</i> <i>Room 103</i>	Modeling Complex Dynamics: Adapting Analytical Tools for Diverse Scenarios <i>Chairman: Martina Dankova</i> <i>Room 203</i>
11.00-11.20	On Some Properties of Tabular Varieties of MTL-Algebras and Their Decidability <i>Stefano Aguzzoli and Matteo Bianchi</i>	Rule Base Combination in Federated Fuzzy Rule Learning <i>Asier Urío Larrea, Javier Andreu-Perez, Graçaliz Dimuro and Humberto Bustince</i>	Adaptive Fuzzy Level Set Algorithm for Bitcoin Realized Volatility Modeling and Forecasting <i>Leandro Maciel, Guilherme Freitas, Vinicius Nazato and Fernando Gomide</i>
11.20-11.40	Foulis Quantales and Complete Orthomodular Lattices <i>Jan Paseka, Michal Botur and Richard Smolka</i>	Modelling Sequential Dependent Data with Non-Commutative Aggregation Functions Obtained by Means of Pseudo-Automorphisms <i>Mikel Ferrero-Jaurieta, Zdenko Takác, Lubomíra Horanská and Humberto Bustince</i>	Unconstrained Parametrization of Proper Symplectic Decomposition for Learning Hamiltonian Dynamics <i>Jānis Bajārs, Dāvis Kalvāns and Dmitry Gromov</i>
11.40-12.00	Gödel Logic and Nested Regular Languages <i>Stefano Aguzzoli, Brunella Gerla and Sarah Nastasi</i>	Capturing Divergent ESG and Financial Priorities in Heterogeneous Investor Groups: An Opinion Dynamics-Based Multi-Criteria Decision-Making Approach <i>Ezgi Türkarslan and Christian Oliver Ewald</i>	Multiplication and Linear Interactivity <i>Petra Stevuliakova and Zahra Alijani</i>
12.00-12.20	On The Non-Falsity and Threshold Preserving Variants of MTL Logics <i>Francesc Esteve, Joan Gispert and Lluís Godó</i>	Global Pooling of Features in Convolutional Neural Networks through Moderate Deviation Based Aggregation Functions <i>Iosu Rodríguez-Martínez, Jana Špírková, Mikel Ferrero-Jaurieta, Humberto Bustince and Javier Fernandez</i>	Differential Equations Driven by Fuzzy Measures - Existence and Uniqueness of Solution of Initial Value Problem <i>Miloslav Cisko</i>
12.20-12.40	Quantitative Lockean Thesis and its Logical Representation <i>Tommaso Flaminio and Lluís Subirana</i>	Learnable Fuzzy Measures for Enhancing F-Integrals in Deep Learning <i>Xabier Gonzalez-Garcia, Lubomíra Horanská and Humberto Bustince</i>	Lower–Upper Bounds Approach to Solve Differential Equations: Theory, Universal Properties, and Numerical Methods <i>Zahra Alijani and Martina Dankova</i>
12.40-13.00	A First-Order Extension of Fuzzy Probability Logics <i>Libor Behounek</i>	Chatbots with Character - An implementation of Fuzzy Conversational Character Computing <i>Sophie Hundertmark, Ramon Christen and Edy Portmann</i> Online	
13.00-14.30	Lunch		

	Monday, July 21		
14.30-15.30	Plenary talk, Alfa <i>Irina Perfilieva</i> Title: Alexander Šostak's Groundbreaking Contributions to Fuzzy Mathematics Chairman: Olga Grigorenko		
15.30-16.30	Round table <i>Homage to Alexander Šostak</i>		
16.30-16.50	Coffee break		
	Homage to Alexander Šostak Chairman: <i>Olga Grigorenko</i> <i>Alfa</i>	Information Fusion Techniques II Chairman: <i>Tiago da Cruz Asmus</i> <i>Room 103</i>	Soft Methods in Statistical Inference and Data Analysis I Chairman: <i>Przemysław Grzegorzewski</i> <i>Room 203</i>
16.50-17.10	On Fuzzy Metrics Constructed from Metrics and Their Topology <i>Juan-José Miñana and Simona Talia</i>	Measuring Representativeness through Coverage Degrees and Indexes <i>Inmaculada Gutiérrez, J. Tinguaro Rodríguez, Xabier González, Daniel Gómez, Javier Montero and Humberto Bustince</i>	Modeling Treatment Effect with Fuzzy Data <i>Przemysław Grzegorzewski</i>
17.10-17.30	Some Metric-Like Structures and \oplus -Based Semi (Pseudo) Metric-Like <i>Şuara Onbaşıoğlu Altuhovs and Banu Pazar Varol</i>	Understanding Data Properties in the Mallows Model: Impact of Voter Count Variability <i>Mario Villar, Noelia Rico and Irene Diaz</i>	Resampling Approaches for Multivariate Random Interval Numbers <i>Maciej Romaniuk</i>
17.30-17.50	Fuzzy Equivalence Based Metrizable Space <i>Reinis Isaks and Olga Grigorenko</i>	Input Importance in Aggregation Theory by Means of Dependence Stochastic Orders <i>Juan Baz and Franco Pellerey</i>	A Hierarchical Representation of Fuzziness in Epistemic Fuzzy Data Analysis <i>Antonio Calcagni and Przemysław Grzegorzewski</i>
17.50-18.10	On Behavior of Fuzzy Morphological Operators Under the Morphisms from Category L-FSLin <i>Ksenija Varfolomejeva and Ingrida Uljane</i>	Idempotence and Internality of Aggregations of Random Variables <i>Juan Baz, Irene Diaz and Susana Montes</i>	FLIRT--An Algorithm to Enhance a Regression Model with Federated Learning and GAN-Based Resampling <i>Przemysław Grzegorzewski and Maciej Romaniuk</i>
18.10-18.30	On Combination of T-Conorms for Aggregation of Data in Risk Assessments <i>Māris Krastiņš</i>		Implicational Quantifiers for Fuzzy Association Rule Mining: Theory and Application to Bipolar Disorder Data <i>Martina Dankova and Katarzyna Kaczmarek-Majer</i>
18.30-20.30	Welcome party, House of Sceince		

Tuesday, July 22			
9.30-10.30	Plenary talk, Alfa Humberto Bustince Title: Possible Applications of Fuzzy Theory in Artificial Intelligence Chairman: Michal Holčápek		
10.30-11.00	Coffee break		
	Main Track / Interval Uncertainty <i>Chairman: Vladik Kreinovich</i> <i>Alfa</i>	Information Fusion Techniques III <i>Chairman: Graçaliz Dimuro</i> <i>Room 103</i>	Advancements and Applications of Fuzzy Theory and Fuzzy Control I <i>Chairman: Chia-Wen Chang</i> <i>Room 203</i>
11.00-11.20	A Study of the Fuzzy Differential Entropy <i>Zuzana Ontkovičová and Vicenç Torra</i>	Construction of Uninorms on Bounded Lattices: Augmenting the Flexibility of Choice <i>Ander Goñi Medrano, Marisol Gómez Fernández and Raúl Pérez Fernández</i>	On Approximation Properties of Stochastic Higher Degree F-Transform <i>Michal Holčápek, Linh Nguyen and Thi Minh Tam Pham</i>
11.20-11.40	How to Deal with High-Impact Low-Probability Events: Theoretical Explanation of the Empirically Successful Fuzzy-Like Technique <i>Juan Ulloa, Aaron Velasco, Olga Kosheleva and Vladik Kreinovich</i>	An Analysis of Discrete Fuzzy Negations on a Subset of Discrete Fuzzy Numbers and Their Applications to Discrete t-Subnorms <i>Manuel González-Hidalgo, Arnau Mir, Juan Vicente Riera, Daniel Ruiz-Aguilera and All Authors</i>	A New Adaptive Dynamic Window Method Combined with Fuzzy Neural Network in Complex Dynamic Environment <i>Xuan-Wen Chen, Shun-Feng Su and Mei-Yung Chen</i>
11.40-12.00	How to Share a Success, How to Share a Crisis, and How All This Is Related to Fuzzy <i>Olga Kosheleva and Vladik Kreinovich</i>	Uncertainty Fusion in Generalizations of Fuzzy Sets Using Distance Transformations <i>Laura De Miguel and Carlos Lopez-Molina</i>	Applications of Kolmogorov Arnold Networks <i>Lan-Shin Jiang, Shun-Feng Su and Mei-Yung Chen</i>
12.00-12.20	A Natural Extension of F-Transform to Triangular and Triangulated Domains Necessitates the Use of Triangular Membership Functions <i>Hana Zamecnikova, Irina Perfilieva, Olga Kosheleva and Vladik Kreinovich</i>	Insights into the q Exponent in PM with Choquet-Integrals for Classification <i>Giancarlo Lucca, Tiago da Cruz Asmus, Cedric Marco-Detchart, Helida Santos, Graçaliz Dimuro, Humberto Bustince, Adenauer Yamin, Renata Reiser, Alice Pintanel and Heloisa Camargo</i>	Dynamic Simplified Decomposed Fuzzy Systems and Its Modeling Effects Analysis <i>Wei-Chen Lee and Shun-Feng Su</i>
12.20-12.40	A new approach to interval clustering using ordering degrees <i>Mohammad Ojaghi, Susana Montes and Irene Mariñas-Collado</i>	[a,b]-FG-Functionals: A Generalization of Sugeno Integral with Floating Domains in Arbitrary Closed Real Intervals <i>Tiago da Cruz Asmus, Giancarlo Lucca, Cedric Marco-Detchart, Javier Fernandez, Humberto Bustince and Graçaliz Dimuro</i>	PSO-Based Framework for Autonomous Driving in Dynamic Environments <i>Zhen-Yu Zhang, Shun-Feng Su and Mei-Yung Chen</i>
12.40-13.00	On the definition of arithmetic operations for intervals under the Xu and Yager order <i>Adan Rodriguez-Martinez, Agustina Bouchet and Susana Montes</i>		Dimension Reduction Methods for Regression with Interval-Valued Data <i>Chen-Chia Chuang, Ping-Yi Yu, Yong-Cian Jheng and Jin-Tsong Jeng</i>
13.00-14.30	Lunch		

	Tuesday, July 22		
14.30-15.30	Plenary talk, Alfa Katarzyna Kaczmarek-Majer Title: The Role of Fuzzy Linguistic Summaries - New Methods and Challenges Chairman: Przemysław Grzegorzewski		
15.30-16.30	Round table <i>60 Years of Fuzzy Sets: What Do We Have and What Is Next?</i>		
16.30-16.50	Coffee break		
	Main Track <i>Chairman: Svetlana Asmuss</i> <i>Alfa</i>	Soft Computing, Uncertainty and Imprecision in Image Processing <i>Chairman: Irina Perfilieva</i> <i>Room 103</i>	Advancements and Applications of Fuzzy Theory and Fuzzy Control II <i>Chairman: Shun-Feng Su</i> <i>Room 203</i>
16.50-17.10	An Enhanced Multi Criteria Decision Making Model for Delivery Locker Placement Using TOPSIS and Einstein Operators in a Pythagorean Fuzzy Framework <i>Gvantsa Tsulaia</i>	Environmental Semantic Mapping and Obstacle Avoidance System Using Lidar and RGB-D Images <i>Shu-Yin Chiang and Shin-En Huang</i>	Designing an LSTM-Based Action Recognition System with Limited Data <i>Chia-Wen Chang, Chin-Wang Tao and Song-Shyong Chen</i>
17.10-17.30	Robust Decisions: Bridging the Quantitative-Qualitative Gap <i>Sébastien Destercke and Agnes Rico</i>	Evolved Image Filtering Using Aggregation Operators <i>Carlos Lopez-Molina and Laura De Miguel</i>	Energy-Saving Technology with Distributed Intuitionistic Fuzzy Sets for Internet of Things Systems <i>Jau-Yang Chang and Ching-Chieh Feng</i>
17.30-17.50	A Fuzzy Logic Framework for Decision-Making Support Using a Variant of TSK Models <i>David Muñoz-Valero, Juan Moreno Garcia, Julio Alberto López-Gómez, Enrique Adrian Villarrubia-Martin and Luis Jimenez-Linares</i>	Laplacian-Guided Keypoint Selection for Efficient Fuzzy Transform Approximation in Bayesian Networks <i>Jan Mrógala and Irina Perfilieva</i>	Study on the Explainable AI of Temporal Convolutional Network <i>Hsuan-Jui Chang, Chen-Chia Chuang, Justin Lin and Jin-Tsong Jeng</i>
17.50-18.10	Fuzzy Clustering-Based Aggregation for Credit Risk Assessment <i>Pavels Orlovs</i>	Improving Early Warnings of Flash Floods Using Radar Images and AI <i>Iñaki Pérez del Notario López, Pedro Oria Iriarte and Humberto Bustince Sola</i>	Enhanced AML Transaction Monitoring via Fuzzy Equivalence in Rule-Based Systems <i>Igor Rodin and Jelizaveta Jelinska</i>
18.10-18.30	A Few Notes to the Fuzzy Best-Worst Method <i>Jana Špírková and Igor Kollár</i>	Comparative Study of Choquet-Inspired Aggregation Functions for Dimensionality Reduction in Noisy Images <i>Joaquin Arellano, Humberto Bustince, Francisco Javier Fernandez, Cedric Marco-Detchart, Graçaliz Dimuro and Benjamin Bedregal</i>	Interval Generalized Kernel-Based Fuzzy-Possibilistic C-Means Clustering Algorithm <i>Yung-Ju Cheng, Yi-Hsing Chien and Wei-Yen Wang</i>
18.30-20.00	EUSFLAT Assembly, Alfa		

Wednesday, July 23			
9.30-10.30	Plenary talk, Alfa Bernard De Baets Title: It's All Convolution, Stupid! Chairman: Vladik Kreinovich		
10.30-11.00	Coffee break		
	Main Track <i>Chairman: Martin Štěpnička</i> <i>Alfa</i>	New Contexts in Aggregation Theory I <i>Chairman: Bernard De Baets</i> <i>Room 103</i>	Soft Methods in Statistical Inference and Data Analysis II <i>Chairman: Katarzyna Kaczmarek-Majer</i> <i>Room 203</i>
11.00-11.20	Functors from Fuzzy Structures Categories into Category of Fuzzy Topological Spaces with Continuous Fuzzy Relations <i>Jiří Močkoř</i>	Ontology Aggregation with Maximum Consensus Based on a Fuzzy Multi-Criteria Group Decision Making Method <i>Lydia Castronovo, Giuseppe Filippone, Mario Galici, Gianmarco La Rosa and Marco Elio Tabacchi</i>	Fuzzy Events Require a Strengthened Form of Independence <i>Kamila Houšková and Mirko Navara</i>
11.20-11.40	Bipolarity on Bounded Lattices <i>Martin Kalina, Biljana Mihailović and Mirjana Štrboja</i>	An Axiomatic Study of the Properties Satisfied by Methods for Ranking the Elements of a Poset <i>Ignacio Montes, Raúl Pérez-Fernández and Bernard De Baets</i>	A Proposal for Measuring Polarization in the Context of Ordinal Scales <i>José Luis García-Lapresta, Daniel Gómez and Juan Antonio Guevara</i>
11.40-12.00	From Lower Boundary Approach to Partial Fuzzy Logics to the Upper Boundary One and Back <i>Martin Stepnicka and Nhung Cao</i>	Goodness-of-Fit Tests to Location-Scale Families Based on OWA Functions <i>Marina Iturrate-Bobes, Ignacio Montes and Raúl Pérez-Fernández</i>	Is There Something Fuzzy in Hypotheses Testing? <i>Ivana Stajner-Papuga and Aleksandar Takaci</i>
12.00-12.20	Locally Modified Multivariate F ^m -Transform: Theoretical Background and Possible Applications <i>Martins Kokainis and Svetlana Asmuss</i>	Decomposition of Non-Commutative Associative Functions via Non-Commutative Ordinal Sum <i>Andrea Mesiarová-Zemánková and Juraj Kalafut</i>	Weighted Quantile Approach to Time Series Forecasting Using Fuzzy-Probabilistic Inference Systems <i>Michal Holcapek, Nhung Cao, Radek Valasek, Nicolas Madrid, Tomas Tichy and David Nedela</i>
12.20-12.40	Kernel Operators on Trellises <i>Inma P. Cabrera, Pablo Cordero, Bernard de Baets, Emilio Muñoz-Velasco and Manuel Ojeda-Hernández</i>	Decomposition Integrals Constrained by Linear Inequalities <i>Adam Šeliga and Timur Kramár</i>	On the Consistency of Fuzzy Linguistic Summaries with Multiple Qualifiers <i>Katarzyna Miś, Katarzyna Kaczmarek-Majer and Michał Baczyński</i>
12.40-13.00	Visual Comparison of Inclusion Measures <i>Patryk Żywica, Anna Stachowiak and Joanna Siwek</i>	A New Perspective on the Discrete Choquet Integral and OWA Operator <i>Barbora Hennešlová, Michał Boczek, Ondrej Hutník and Jaroslav Šupina</i>	Alpha-Maxmin Classification with an Ensemble of Structural Restricted Boltzmann Machines <i>Davide Petturiti and Maria Rifqi</i> Online
13.00-14.30	Lunch		
14.30-21.30	Excursions		

Thursday, July 24			
9.30-10.30	Plenary talk, Alfa Ulrich Bodenhofer Title: AI for Good: Machine Learning in Medicine and Healthcare – Basics, Use Cases and Prospects Chairman: Bernard de Baets		
10.30-11.00	Coffee break		
	Main Track <i>Chairman: Michal Holčápek</i> <i>Alfa</i>	Fuzzy Implication Functions <i>Chairman: Michal Baczynski</i> <i>Room 103</i>	Student works <i>Room 203</i>
11.00-11.20	Direct Compatible Copulas <i>Roberto Ghiselli Ricci</i>	Implication construction methods on bounded lattices <i>Ümit Ertuğrul, Funda Karaçal and Kübra Karacair</i>	A Soft Clustering Method Derived from the Probabilistic Interpretation of Fuzzy C-Means <i>Davide Cazzorla and Corrado Mencar</i>
11.20-11.40	Multi-Metric Genetic Optimization of Ordinal Sums of Conjunctive and Disjunctive Functions in Classification Tasks <i>Erika Bombarová, Miroslav Hudec and Marek Reformat</i>	On the threshold-based generalization of the Modus Ponens syllogism <i>Michal Baczynski and József Dombi</i>	Verification of Validity of Generalized Logical Syllogisms Applying the Contraposition <i>Karel Fiala and Petra Murinová</i>
11.40-12.00	Incomplete Preference Relation Analysis for MgGDM System <i>José Ramón Trillo, Juan Carlos Gonzáles-Quesada, Francisco Mata, Ignacio Javier Pérez and Francisco Javier Cabrerizo</i>	On a generalization of the F-chains based construction of fuzzy implication functions <i>Raquel Fernandez-Peralta and Juan Vicente Riera</i>	On Modular Fuzzy Equivalences, Aggregation and Modular Pseudo-Metrics <i>Gabriel Jaume-Martin, Maria del Mar Bibiloni-Femenias and Oscar Valero</i>
12.00-12.20	Can Fuzzy Fingerprints Really Make LLMs More Interpretable? <i>Joao Paulo Carvalho and Rui Ribeiro</i>	Generalized Quantifiers, Logical Syllogisms and Applications <i>Chairman: Vilém Novák</i> <i>Room 103</i>	
		Using Intermediate Quantifiers to Reduce the Number of Linguistic Rules for Diagnosing Mood Disorders from Incomplete Data <i>Lucas Dantas de Oliveira and Peter Sussner</i>	
12.20-12.40	A First Approach to Fuzzy Logic Applied to the Explainability of Deep Learning Models by Layers <i>Arturo Fernández-Mora, Juan Moreno-García, David Muñoz-Valero and Luis Martínez</i>	Verification of Validity of Logical Syllogisms Generated by Cube of Opposition using Extended Peterson's Rules <i>Petra Murinová and Vilém Novák</i>	
12.40-13.00	Embedding-Based Similarity Measure for IVFS <i>Sara Suarez-Fernandez, Agustina Bouchet, Susana Diaz-Vazquez and Susana Montes</i>	Graded Hexagon of Opposition with New Forms of Intermediate Quantifiers <i>Petra Murinová and Vilém Novák</i>	
13.00-14.30	Lunch		

	Thursday, July 24		
	Representing and Managing Uncertainty I <i>Chairman: Jesús Medina</i> <i>Alfa</i>	New Contexts in Aggregation Theory II <i>Chairman: Raúl Pérez-Fernández</i> <i>Room 103</i>	Fuzzy Relations and Applications I <i>Chairman: Oscar Valero</i> <i>Room 203</i>
14.30-14.50	On direct systems of implications with graded attributes <i>Manuel Ojeda-Hernandez and Domingo López-Rodríguez</i>	Exploring Divisibility and Related Properties of T-Norms on Finite Lattices <i>Juraj Kalafut</i>	Generating Modular Relaxed Pseudo-Metrics by Aggregation <i>Maria del Mar Bibiloni-Femenias, Gabriel Jaume-Martin and Oscar Valero</i>
14.50-15.10	Credibility of decision rules as a tool for decision-making in fuzzy rough set theory <i>Fernando Chacón-Gómez, M. Eugenia Cornejo Piñero and Jesús Medina</i>	A General Framework for Measuring Chord Distances Using Aggregation Functions <i>Kristína Hurajová</i>	Prostate Cancer Diagnosis: A Geometric Approach Based on the Beer Index <i>Miquel Angel Serra-Moll, Arna Mir-Fuentes, Antoni Burguera Burguera and Oscar Valero</i>
15.10-15.30	Studying the structure generated by subsets of ϕ -indexes of inclusion <i>Nicolas Madrid, Manuel Ojeda-Aciego and Eloisa Ramirez-Poussa</i>	On the Existence of Non-Trivial Monometrics on Betweenness Relations: Some Sufficient Conditions <i>Kavit Nanavati, Megha Gupta and Balasubramaniam Jayaram</i> Online	On the Impossibility of Universally Transforming Similarity Metrics into Partial Metrics <i>Arna Mir Fuentes and Oscar Valero</i>
15.30-15.50	Computing minimal solutions of fuzzy relation equations with incremental quasi-polynomial delay <i>David Lobo, Jesús Medina, Timo Camillo Merkl and Reinhard Pichler</i>	Multidimensional Aggregation and Social Poverty <i>Marta Cardin</i> Online	On Metric Aggregation Functions and Fuzzy Decision-Making <i>Miquel Angel Serra-Moll, Onofre Martorell-Cunill, Carles Mulet-Forteza and Oscar Valero</i>
15.50-16.10	OFWA operators for multi-criteria decision making <i>Roberto G. Aragón, Jesús Medina and Samuel Molina-Ruiz</i>	Uniqueness and Reconstruction of Strict T-Norms Known Only Above a Level Curve and Different Curves <i>Gabriel Bauza-Llompert, Raquel Fernandez-Peralta and Marc Munar</i> Online	Prioritized preference aggregation for non-uniform groups of agents <i>Janusz Kacprzyk and Sławomir Zadrozny</i>
16.10-16.30	Coffee break		
19.00-23.00	Conference dinner		

Friday July 25			
9.30-10.30	Plenary talk, Alfa Andris Ambainis Title: Mathematical Ideas in Quantum Algorithms Chairman: Svetlana Asmuss		
10.30-11.00	Coffee break		
	Main Track <i>Chairman: Christophe Marsala</i> <i>Alfa</i>	Representing and Managing Uncertainty II <i>Chairman: David Lobo</i> <i>Room 103</i>	<i>The Role and Value of Information in Decision Making</i> <i>Chairman: Dmitry Gromov</i> <i>Room 203</i>
11.00-11.20	About T-Norms and T-Conorms on New Preorders in Type-2 Fuzzy Sets <i>Pablo Hernandez-Varela, Francisco Javier Talavera, Carmen Torres-Blanc, Susana Cubillo, Pedro Huidobro and Jorge Elorza</i>	Idea Management and Game Theory with Uncertain Payoffs <i>Inese Bula, Elīna Miķelsone, Līga Peiseniece, Astrīda Rijkure, Aivars Spilbergs and Inga Uvarova</i>	Pollution Control under Uncertainty: Integrating Optimal Control Theory and Value of Information <i>Dmitry Gromov, Prateek Verma, Amelie Luhede and Thorsten Upmann</i>
11.20-11.40	A Decision-Making Framework Based on Intersection and Similarity Measures for Type-2 Fuzzy Sets <i>Pedro Huidobro, Francisco Javier Talavera, Susana Cubillo, Carmen Torres-Blanc, Pablo Hernandez-Varela and Jorge Elorza</i>	Federated Learning with Strategy for Uncertainty Management in Machine Learning based on Interval-Valued Fuzzy Sets and Choquet Integral for Medical Diagnostic <i>Barbara Pękala, Jarosław Szkoła and Krzysztof Dyczkowski</i>	Extending the Concept of the Value of Information to Fuzzy Decision-Making with Expert Systems <i>Martiņš Zemlītis, Svetlana Asmuss, Dmitry Gromov, Olga Grigorenko</i>
11.40-12.00	Towards Probabilistic Entropies for Interval Valued Fuzzy Sets <i>Christophe Marsala and Bernadette Bouchon-Meunier</i>	GranFRRI: Improving Fuzzy Rough Rule Induction with Granular Approximations <i>Henri Bollaert, Marko Palanetić, Chris Cornelis, Salvatore Greco and Roman Slowinski</i>	Fuzzy Logic-Based Mathematical Structures in Classification Problem <i>Valerijs Mihailovs</i>
12.00-12.20	Some Results on Fuzzy Basis of Fuzzy Lie Algebras <i>Giuseppe Filippone, Mario Galici, Gianmarco La Rosa and Marco Elio Tabacchi</i>	New Approach to the Uncertainty Degree for ϕ -Intuitionistic Values <i>Matúš Ďubek</i>	
12.20-12.50	Closing		
13.00-14.30	Lunch		