

International Symposium on Fuzzy Sets Uncertainty Modelling

ISFS 2023

Programme

May 19-21, 2023

University of Rzeszów, Poland

Building: A0

Assembly hall: Ball

Programme

May 19

9:30 – 12:00 Registration desk, Building: A0, hall

10:00 – 10:15 Opening of Symposium, Assembly hall: Ball

Plenary lectures **Chair:** Barbara Pękala

10:15 – 10:55 R. Mesiar

Aggregation functions

10:55 – 11:35 S. Montes

Subsethood and embedding measures for interval-valued fuzzy sets: Similarities and differences

11:35 – 12:05 Coffee break

Chair: Urszula Bentkowska

12:05 – 12:25 M. Baczyński, H. Zhou

On the characterizations of the Reichenbach implication by functional equations

12:25 – 12:45 P. Grzegorzewski, M. Zacharczuk, K. Zdon

Nonparametric tests for fuzzy data

12:45 – 13:05 M. Bruteničová, V. Janiš

Postmodifiers preserving monotony

13:05 – 13:25 V. Kobza

Some approaches for divergence measures between fuzzy sets

13:25 – 13:45 B. Yatsalo

Fuzzy Multi-Criteria Decision Analysis: Myth or Reality?

13:45 – 15:15 Lunch, Building: A0, hall

Chair: Anna Król

15:15 – 15:35 M. Kalina

A generalization of Bi-polar OWA operators to the continuous case

15:35 – 15:55 J. Špirková

Generalized mixture D-mean

15:55 – 16:15 M. Boczek, O. Hutník, M. Kleinová

The Choquet integral in the language of bases and transforms

16:15 – 16:35 L. Coroianu, R. Fullér, I. Á. Harmati

Solution methods for some constrained OWA aggregation problems

16:35 – 17:05 Coffee break

Chair: Wiesław Paja

17:05 – 17:25	H. Sadłowska, P. Korczak, A. Kochański, B. Płonka, P. Grzegorzewski <i>Regression models for optimizing the aluminum extrusion process under isothermal conditions</i>
17:25 – 17:45	K. Dyczkowski <i>AI and Sport Data Analysis in Football</i>
17:45 – 18:05	J. Wieczynski, J. Sartori, G. Lucca, G. Dimuro, C. Guerra, A. Cruz, J. Fernandez, H. Bustince <i>Choquet integral as a Substitute for Multiplication in Vision Transformers</i>
18:05 – 18:25	K. Kmita, K. Kaczmarek-Majer, O. Hryniewicz <i>The non-linear impact of the scaling factor α on the outcomes of Semi-Supervised Fuzzy CMeans</i>

18:30 Welcome cocktail (dinner), Building: A0, hall

May 20

Plenary lectures **Chair:** Michał Baczyński

09:30 – 10:10	J. Kacprzyk <i>De novo type approaches in fuzzy decision making, optimization and control: Towards optimal system design</i>
10:10 – 10:50	J. Drewniak <i>Algebra of fuzzy relations</i>

10:50 – 11:20 Coffee break

Poster Session – A0, hall

11:20 – 12:50	1) S. Basarık, J. Borzová, L. Halčinová, J. Šupina <i>The generalized Choquet integral computation in discrete space</i>
	2) B. Hannelová, O. Hutník <i>Generalized integrals applied to scientometric indices</i>
	3) J. Kalafut, A. Mesiarová-Zemánková <i>Pseudo-uninorms with Archimedean underlying functions</i>
	4) K. Miś <i>Consistency of linguistic summaries</i>
	5) A. Kozak <i>Building Trust in Machine Learning: The Role of Explainable AI</i>
	6) A. Urio-Larrea, G. Lucca, C. Guerra, J. Fernandez, G. Dimuro, H. Bustince

Fuzzy Rule comparison system and its application to select the best method for the Generalized Modus Ponens

7) M. Ojaghi, V. Janiš

Relational modifiers for L-valued mappings

8) A. Jastrzębska

Fuzzy Concept-Based Time Series Models: Time Series Similarity, Clustering, and Classification

9) U. Bentkowska, W. Gałka, M. Mrukowicz

Ensemble regression model based on aggregation functions

10) P. Drygaś, A. Król

On threshold generated fuzzy implications

11) D. Gil, T. Mroczek, B. Pękala

Missing Data completing employing a Hybrid FuzzyRough Approach in a Posture Detection System

12) E. Rak, J. Sarzyński, A. Szczur

Classifiers Aggregation method based on the Distributivity Law (CADL)

12:50 – 14:20 Lunch, Building: A0, hall

Chair: Paweł Drygaś

14:20 – 14:40

A. Rutkowska, K. Kaczmarek-Majer

Inflation expectation analysis with evolving membership functions

14:40 – 15:00

P. Murinová

Position of “A few” and “Several” in Graded Peterson’s Hexagon of Opposition

15:00 – 15:20

A. Cena, I. Balagura

The importance of keywords in bibliometrics

15:20 – 15:40

K. Čunderlíková

A note about almost uniformly convergence and a variation on the Egorov’s theorem

15:40 – 16:00

J. L. García-Lapresta, R. González del Pozo

Scoring functions on ordered qualitative scales

16:00 – 16:20

J. Szkoła, B. Pękala

The learning method of regression using interval-valued spline functions

16:20 Closure the scientific part of the Symposium

Walk to the city center (in nice weather)

May 21

09:30 – 18:00 Excursion to the mine in Bochnia (meet in the hall of building A0)