

ISCAMI 2020 – Programme at glance

Tuesday

8 September 2020

14:00 – 16:45	Registration	Reception
16:45 – 17:00	Opening Ceremony	Hall 1
17:00 – 18:30	Text analysis: from search engine to AI writer <i>J. Platoš</i>	Hall 1
18:45 –	Welcome dinner	Lounge

Wednesday

9 September 2020

9:00 – 10:30	Geometric algebras and their application in quantum computing <i>P. Vašík</i>	Hall 1
10:30 – 11:00	Coffee break	Lounge
11:00 – 12:40	Session 1	Hall 1
	Session 2	Hall 2
12:40 – 13:40	Lunch	Lounge
14:30 – 15:30	Deep Learning Workshop <i>P. Hurtik, V. Molek</i>	Hall 1
15:30 – 16:00	Coffee break	Lounge
16:00 – 17:00	Session 3	Hall 1
	Session 4	Hall 2
18:30 –	Dinner	Lounge

Thursday

10 September 2020

9:00 – 10:30	Methods of expression of real numbers <i>J. Šustek</i>	Hall 1
10:30 – 11:00	Coffee break	Lounge
11:00 – 12:40	Session 5	Hall 1
	Session 6	Hall 2
12:40 – 13:40	Lunch	Lounge
	Free afternoon	
18:30 –	Gala dinner	Lounge

Friday

11 September 2020

9:00 – 10:30	Relaxed equivalence checking for evolutionary design of approximate circuits <i>L. Sekanina</i>	Hall 1
10:30 – 11:00	Coffee break	Lounge
11:00 – 12:20	Session 7	Hall 1
12:20 – 12:30	Closing Ceremony	
12:30 – 14:00	Lunch	Lounge

ISCAMI 2020 - Detailed programme

Tuesday

8 September 2020

14:00 - 16:45 Registration Reception

16:45 - 17:00 Opening Ceremony Hall 1

Tutorial 1 Chair: R. Mesiar Hall 1

17:00 - 18:30 Text analysis: from search engine to AI writer
J. Platoš

18:45 - Welcome dinner Lounge

Wednesday

9 September 2020

Tutorial 2 Chair: M. Štěpnička Hall 1

9:00 - 10:30 Geometric algebras and their application in quantum computing
P. Vašík

10:30 - 11:00 Coffee break Lounge

Session 1 Chair: I. Perfilieva Hall 1

11:00 - 11:20 *On Manifold Weight Assignment Related to Fuzzy Partition*
J. Janeček

11:20 - 11:40 *Application of Collection Integrals: Coherent Lower and Upper Previsions*
A. Šeliga

11:40 - 12:00 *Qualitative Integral Transforms for Residuated Lattice-Valued Functions*
V. Bui

12:00 - 12:20 *Partial Derivatives of Fuzzy Valued Functions on Time Scale under Generalized Hukuhara Difference*
T. Truong

12:20 - 12:40 *F-transform Estimation by Quadrature Formulas*
T. Pham

Session 2 Chair: P. Vašík Hall 2

11:00 - 11:20 *Inverse Analysis of a Stochastic PDE Using Bayes Method*
L. Gaynutdinova

11:20 - 11:40 *Reference Material Based Preconditioning for the Finite Element Homogenization*
M. Ladecký

11:40 - 12:00 *On a Model of Transport Processes in Porous Media*
J. Runcziková

12:00 - 12:20 *Application of AI Methods in Source Code Similarity Recognition*
P. Raunigr

12:20 - 12:40 *On Fundamental Equations of Rotary Vector Fields*
J. Křížek

12:40 – 13:40	Lunch		Lounge
<i>Workshop</i>		Chair: J. Platoš	Hall 1
14:30 – 15:30	Deep Learning Workshop P. Hurtík, V. Molek		
15:30 – 16:00	Coffee break		Lounge
<i>Session 3</i>		Chair: I. Perfilieva	Hall 1
16:00 – 16:20	<i>Nonlocal Laplace Operator in Image Processing</i> H. Zámečnicková		
16:20 – 16:40	<i>Community Detection Using Clustering Methods and Closed Trail Distance</i> P. Prokop		
16:40 – 17:00	<i>Fuzzy Partition and Clusterization in Images</i> D. Adamczyk		
<i>Session 4</i>		Chair: P. Hurtík	Hall 2
16:00 – 16:20	<i>Adaptation Mechanisms of Parameters in Differential Evolution</i> P. Kolenovský		
16:20 – 16:40	<i>Statistical Evaluation of Botanical Data</i> D. Ballová		
16:40 – 17:00	<i>Efficiency of Evolutionary Algorithms when Estimate the Parameters of Non-linear Regression Model</i> V. Janisch		
18:30 –	Dinner		Lounge
Thursday			10 September 2020
<i>Tutorial 3</i>		Chair: J. Kupka	Hall 1
9:00 – 10:30	Methods of expression of real numbers J. Šustek		
10:30 – 11:00	Coffee break		Lounge
<i>Session 5</i>		Chair: J. Kupka	Hall 1
11:00 – 11:20	<i>Keypoints Selection Using Evolutionary Algorithms</i> D. Adamczyk		
11:20 – 11:40	<i>Amortizing Search and Planning with Neural Networks</i> J. Hůla		
11:40 – 12:00	<i>Graph Neural Networks in Automated Reasoning</i> D. Mojžíšek		
12:00 – 12:20	<i>Continuous Spatial Pooling</i> V. Molek		
12:20 – 12:40	<i>On Lifting Construcions of Small Regular Graphs of a Given Degree and Girth 6 and 8</i> P. Jánoš		

Session 6		Chair: J. Šustek	Hall 2
11:00 – 11:20	<i>Spectral Estimates for Dirichlet Laplacians and Shrödinger Operators on Geometrically Nontrivial Cusps</i> H. Ly		
11:20 – 11:40	<i>Hermitian and Skew-Hermitian matrix algebra over Octonions</i> A. Zohrabi		
11:40 – 12:00	<i>Natural Gas Consumption Forecasting</i> R. Svoboda		
12:00 – 12:20	<i>Detection of Structural Breaks in Time Series Using Fuzzy Techniques</i> P. Truong		
12:20 – 12:40	<i>Numerical Methods in Mathematical Cartography</i> A. Ábrahámová		
12:40 – 13:40	Lunch Free afternoon		Lounge
18:30 –	Gala dinner		Lounge

Friday **11 September 2020**

Tutorial 4		Chair: V. Novák	Hall 1
9:00 – 10:30	Relaxed equivalence checking for evolutionary design of approximate circuits L. Sekanina		
10:30 – 11:00	Coffee break		Lounge
Session 7		Chair: L. Sekanina	Hall 1
11:00 – 11:20	<i>Simulations of Fuzzy Dynamical Systems</i> N. Škorupová		
11:20 – 11:40	<i>Distribution Functions in Non-additive Case</i> Z. Ontkovičová		
11:40 – 12:00	<i>Transfer-Stable Aggregation Functions on Finite Lattices</i> Z. Kurač		
12:00 – 12:20	<i>An Algorithm for Generalized Intermediate Quantifiers</i> V. Červeňová		
12:20 – 12:30	Closing Ceremony		Hall 1
12:30 – 14:00	Lunch		Lounge