ODAM 2013

Conference ODAM 2013
Plenary session
June 12, 2013, room 2.001 (second floor)

8.30–10.00	Registration of participants (second floor)
10.00–10.20	Opening ceremony
	Chair M. Vlach
10.20–11.00	I. Perfilieva
	Computational intelligence for image processing
11.00–11.40	V. Pawlowsky-Glahn, J. J. Egozcue, D. Lovell
	The product space T (tools for compositional data with a total)
11.40–13.00	Lunch

Keynote speech
June 13, 2013, room 2.001 (second floor)

	Chair R. Mesiar
17.45–18.45	Ch. Carlsson (President of the IFSA)
	Soft computing in analytics
19.00–22.00	Conference dinner

Section: Fuzzy sets, MCDM and Applications
June 12, 2013, room 2.001

	Chair I. Perfilieva
13.00–13.30	V. Novák, P. Murinová
	Intermediate quantifiers in fuzzy natural logic
13.30–14.00	R. Montemanni
	Vehicle routing, data uncertainty and metaheuristic algorithms
14.00–14.30	M. Vlach
	Negotiation, bargaining, arbitration
14.30–14.45	Coffee break
	Chair M. Kalina
14.45–15.15	S. Bodjanová
	Rough sets and fuzzy sets in prototype based clustering algorithms
15.15–15.45	J. Fischer
	Using Statistical Inference in macro-economic statistics: challenges, obstacles, misunderstandings
15.45–16.15	T. Urbánek
	Have psychology and mathematics anything in common? Not much, but…
16.15–16.30	Coffee break
	Chair P. Fiala
16.30–17.00	M. Collan
	Fuzzy scorecards
17.00–17.20	T. Talášek, P. Luukka, M. Collan
	Fuzzy comparison measures and fuzzy OWA in multicriteria decision making
19.00	Academia film Olomouc: The Colors of Math

June 13, 2013, room 2.001

8.00–9.00	Registration of participants (second floor)
	Chair K. Zimmermann
9.00–9.30	J. Ramík
	Application of binary relations to ranking of alternatives
9.30–10.00	M. Fedrizzi, N. Civolani, A. Critch
	Inconsistency evaluation in preference relations: a characterization based on metrics induced by a norm
10.00–10.20	V. Jandová, J. Talašová
	Weak consistency—a new approach to consistency in the Saaty's analytic hierarchy process
10.20–10.40	J. Krejčí
	A proper fuzzification of Saaty's scale and an improvement of the method for computing fuzzy weights from fuzzy pair wise comparison matrix
10.40–11.00	Coffee break
	Chair J. Ramík
11.00–11.30	K. Zimmermann
	Incorrectly posed systems of (max, min)-linear equations and inequalities
11.30–12.00	P. Fiala
	A hybrid procedure for network multi-criteria systems
12.00–12.20	J. Stoklasa, J. Krejčí, J. Talašová
	Peer-review integration into the R&D evaluation based on objective data—a model using fuzzy AHP
12.30–14.00	Lunch
	Chair S. Bodjanová
14.00–14.30	R. Mesiar
	Integrals: special functionals and an optimization tool
14.30–15.00	B. Riečan
	On an elementary characterization of the Lebesgue integral
15.00–15.20	D. Hliněná, M. Kalina, P. KráĺÍ
	Semi-copulas and generator triples for fuzzy preferences
15.20–15.40	O. Nánásiová, M. Kalina
	Relative arithmetic for non-compatible observables
15.40–16.00	Coffee break

June 14, 2013, room 2.006

9.00–9.45	Registration of participants (second floor)
9.45–10.00	Coffee break
	Chair I. Müller
10.00–10.30	R. Viertl, S. M. Yeganeh
	Predictive distributions in fuzzy Bayesian inference
10.30–10.50	S. M. Yeganeh, R. Viertl
	On the likelyhood based on fuzzy data
10.50–11.10	S. de la Rosa de Sáa, P. Filzmoser, M. Á. Gil, M. A. Lubiano
	Fuzzy rating or fuzzy linguistic?
11.30	Closing ceremony + Lunch

Section: Mathematical and Applied Statistics
June 12, 2013, room 2.005

	Chair V. Pawlowsky-Glahn
13.00–13.25	K. Hron, P. Filzmoser, E. Fišerová
	Correlation analysis for compositional data using classical and robust methods
13.25–13.50	C. Mert, P. Filzmoser, K. Hron
	Principal balances with sparse PCA
13.50–14.15	A. Kalivodová, K. Hron, M. Templ, P. Filzmoser
	Replacement of missing values and rounded zeros in high-dimensional compositional data with application to metabolomics
14.15–14.45	Coffee break
	Chair V. Witkovský
14.45–15.10	L. Kubáček, J. Vrbková
	Variance of plug-in estimators in multivariate regression models
15.10–15.35	R. Navrátil
	Minimum distance estimators in measurement error models
15.35–16.00	M. Chvosteková
	A univariate multiple use calibration
16.00–16.25	O. Vencálek
	Depth based classification: several new ideas
19.00	Academia film Olomouc: The Colors of Math

June 13, 2013, room 2.005

8.00–9.00	Registration of participants (second floor)
	Chair M. Grendár
9.00–9.40	R. Fried, K. Fokianos, T. Liboschik Outliers and interventions in count time series
9.40–10.05	P. Pavlíček, D. Naik White-light interferometry—coherence peak evaluation and influence of noise
10.05–10.30	S. Bělašková, E. Fišerová Cox proportional regression model with delayed entry and its application to mitral valve replacement study
10.30–11.00	Coffee break
	Chair R. Fried
11.00–11.25	M. Grendár Translate p-value into Bayes factor?
11.25–11.50	D. Stibůrek Statistical inference about the drift parameter in stochastic processes
11.50–12.15	V. Todorov Robust R Tools for exploring high-dimensional data
12.30–14.00	Lunch
	Chair E. Fišerová
14.00–14.25	O. Pavlačka, K. Hron Proportional representations of interval compositional data
14.25–14.50	K. Fačevicová, K. Hron Compositional tables analysis in coordinates
14.50–15.15	K. Hrůzová, K. Hron, E. Fišerová, G. S. Monti, S. Migliorati Simplicial regression for concentration-response experiments
15.15–16.15	Coffee break + Poster Session

June 14, 2013, room 2.005

9.30–10.00	Registration of participants (second floor)
	Chair V. Todorov
10.00–10.25	M. Templ, K. Hron, P. Filzmoser, G. S. Monti Outlier detection in compositional data with structural zeros
10.25–10.50	S. Donevska, E. Fišerová, K. Hron Calibration line problem for compositions
10.50–11.15	P. Filzmoser, F. Schroeder, A. Braumann, K. Hron Stepwise variable selection in robust regression with compositional explanatory variables
11.30	Closing ceremony + Lunch

Section: Numerical Mathematics and PDE
June 12, 2013, room 2.004

12.30–13.00	Registration of participants (second floor)
	Chair J. Malík
13.00–14.00	M. Pokorný Steady compressible Navier–Stokes–Fourier system with temperature dependent viscosities
14.00–14.30	K. Motyčková The semi-smooth Newton method for contact problems with Tresca and Coulomb friction
14.30–15.00	Coffee break
	Chair J. Malík
15.00–15.30	T. Ligurský, Y. Renard A continuation problem for computing solutions of discretized quasi-static problems
15.30–16.00	M. Minárová Hygric models in enclosure
16.00–16.30	V. Čerňanová On an explicit solution of a finite network problem
19.00	Academia film Olomouc: The Colors of Math

June 13, 2013, room 2.004

8.00–9.00	Registration of participants (second floor)
	Chair J. Zítko
9.00–9.30	J. Machalová, H. Netuka Solution of contact problems for a beam and an elastic foundation
9.30–10.00	J. Machalová, H. Netuka Canonical duality in optimization problems
10.00–10.30	M. Dvorská Vector optimization results for l-stable data
10.30–11.00	Coffee break
	Chair J. Zítko
11.00–11.30	R. Andrášik Nonlinear rescaling method and self-concordant functions
11.30–12.00	P. Ženčák Numerical comparison of some algorithms for the vehicle routing problem
12.00–12.30	R. Vodák Robustness analysis of road networks
12.30–14.00	Lunch
	Chair M. Pokorný
14.00–14.45	J. Malík Lateral asymmetry and torsional oscillations in suspension bridges
14.45–15.15	S. Sysala Discretization and numerical methods for the Hencky elastic-perfectly plastic problem
15.15–15.45	D. Kotorová Comparison of the 3D numerical schemes for solving curvature driven level set equation based on DDFV
15.45–16.15	Coffee break

June 14, 2013, room 2.004

9.00–9.30	Registration of participants (second floor)
	Chair R. Vodák
9.30–10.15	J. Zítko, J. Eliaš Computing the greatest common divisor of polynomials
10.15–10.45	Coffee break
10.45–11.30	R. Kučera Projected methods for nonsymmetric two-by-two block linear systems
11.30	Closing ceremony + Lunch

Sekce: Konference projektu MAPLIMAT
14. 6. 2013, místnost 2.001

9.30–9.45	Slavnostní zahájení konference, přivítání účastníků, úvodní slovo hlavní řešitelky projektu doc. RNDr. Jany Talašové, CSc.
9.45–10.30	Stručné představení klíčových aktivit projektu a jejich výstupů
10.30–10.45	Přestávka, občerstvení účastníků
10.45–11.15	Vstupy spolupracujících zaměstnavatelů, zhodnocení dosavadní spolupráce v oblasti studentských praxí
11.15–11.30	Zhodnocení projektu MAPLIMAT z pohledu studentů
11.30	Ukončení konference
	Oběd