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INVESTMENTS IN EDUCATION DEVELOPMENT

**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
	<i>Chair M. Vlach</i>
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)**

	<i>Chair R. Mesiar</i>
17.45–18.45	Ch. Carlsson (President of the International Fuzzy Systems Association) Soft computing in analytics
19.00–22.00	Conference dinner



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

	<i>Chair I. Perfilieva</i>
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
	<i>Chair M. Kalina</i>
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
	<i>Chair P. Fiala</i>
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 (movie projection)



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**Conference ODAM 2013**  
**Section: Fuzzy sets, MCDM and Applications**  
**June 13, 2013, room 2.001**

8.00–9.00	Registration of participants (second floor) <i>Chair K. Zimmermann</i>
9.00–9.30	J. Ramík Application of binary relations to ranking of alternatives
9.30–10.00	M. Fedrizzi, N. Civalani, 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 <i>Chair J. Ramík</i>
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 <i>Chair S. Bodjanová</i>
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. Král 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



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**Conference ODAM 2013**  
**Section: Fuzzy sets, MCDM and Applications**  
**June 14, 2013, room 2.006**

9.00–9.45	Registration of participants (second floor)
9.45–10.00	Coffee break
	<i>Chair I. Müller</i>
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 likelihood 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



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

	<i>Chair V. Pawlowsky-Glahn</i>
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
	<i>Chair V. Witkovský</i>
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 (movie projection)



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**Conference ODAM 2013**  
**Section: Mathematical and Applied Statistics**  
**June 13, 2013, room 2.005**

8.00–9.00	Registration of participants (second floor)
	<i>Chair M. Grendár</i>
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. Bélašková, E. Fišerová Cox proportional regression model with delayed entry and its application to mitral valve replacement study
10.30–11.00	Coffee break
	<i>Chair R. Fried</i>
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
	<i>Chair E. Fišerová</i>
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. Hružová, K. Hron, E. Fišerová, G. S. Monti, S. Migliorati Simplicial regression for concentration-response experiments
15.15–16.15	Coffee break + Poster Session
	H. Horáková, D. Jarušková Detecting a change in annual peak timing
	P. Kynčlová, P. Filzmoser, K. Hron Vector autoregression for compositional time series
	J. Mačutek, G. Wimmer, G. Altmann Discrete averaged mixed distributions
	L. Radová Statistical methods in biomarker detection
	V. Witkovský A note on computing extreme tail probabilities of the noncentral $t$ distribution with large noncentrality parameter



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**Conference ODAM 2013**  
**Section: Mathematical and Applied Statistics**  
**June 14, 2013, room 2.005**

9.30–10.00	Registration of participants (second floor)
	<i>Chair V. Todorov</i>
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



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

12.30–13.00	Registration of participants (second floor)
	<i>Chair J. Malík</i>
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
	<i>Chair J. Malík</i>
15.00–15.30	T. Ligurský, Y. Renard A continuation problem for computing solutions of discretized quasi-static problems
15.30–16.00	M. Minářová 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 (movie projection)





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**Conference ODAM 2013**  
**Section: Numerical Mathematics and PDE**  
**June 13, 2013, room 2.004**

8.00–9.00	Registration of participants (second floor) <i>Chair J. Zítko</i>
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 <i>Chair J. Zítko</i>
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 <i>Chair M. Pokorný</i>
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



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**Section: Numerical Mathematics and PDE**  
**June 14, 2013, room 2.004**

9.00–9.30	Registration of participants (second floor)
	<i>Chair R. Vodák</i>
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



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### Conference ODAM 2013

**Sekce: Závěrečná konference projektu MAPLIMAT**

Modernizace studia aplikované matematiky na PřF UP v Olomouci

**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