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MINISTRY OF EDUCATION,
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INVESTMENTS IN EDUCATION DEVELOPMENT

Conference ODAM 2011

Plenary sessions

January 26, 2011, room 2.001 (second floor)

Time	Project
8.30–9.30	Registration of participants (second floor)
9.30–10.00	Opening ceremony
	<i>Chair J. Volauřová</i>
10.00–10.45	Lubomír Kubáček, Eva Tesařiková The type A uncertainty
10.45–11.25	A. Pázman Strange design points in linear regression
11.25–11.40	Coffee break
	<i>Chair I. Perfilieva</i>
11.40–12.20	R. Mesiar Copulas and their applications in multicriteria decision support
12.20–13.00	J. Haslinger Free material optimization
13.00–14.00	Lunch (conference room of dean's office, sixth floor)



INVESTMENTS IN EDUCATION DEVELOPMENT

Conference ODAM 2011
Section: Mathematical and Applied Statistics
January 26, 2011, room 2.001

Time	Project
	<i>Chair I. Horová</i>
14.00–14.55	G. Wimmer, V. Witkovský, G. Wimmer jr. Continuation of Professor Kubáček's research work: some miscellaneous examples
14.55–15.15	I. Žežula, D. Klein Overview of recent results in multivariate linear models
15.15–15.40	Coffee break
	<i>Chair V. Witkovský</i>
15.40–16.20	J. Antoch Linear regression with interval data: computational issues
16.20–16.40	T. Jurczyk Trimmed estimators in regression framework
16.20–17.00	J. Pícek Extremes of two-step regression quantiles
19.00–20.00	Konvikt, Corpus Christi Chapel: Concert of the Stupka Quartet
20.00	Hotel Arigone restaurant—Reservation for ODAM participants



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INVESTMENTS IN EDUCATION DEVELOPMENT

Conference ODAM 2011
Section: Mathematical and Applied Statistics
January 27, 2011, room 2.001

Time	Project
8.30–9.00	Registration of participants (second floor)
	<i>Chair J. Antoch</i>
9.00–9.40	I. Horová Multivariate kernel density estimates
9.40–10.00	B. Kratochvílová, V. Beneš, D. Klement Stochastic modelling of neuron activity
10.00–10.20	I. Moll, K. Myšková, P. Moll Equidistant general exponential analysis with some known exponents
10.20–10.40	Coffee break
	<i>Chair V. Pawlowsky-Glahn</i>
10.40–11.00	J. J. Egozcue, V. Pawlowsky-Glahn The Hilbert space of density functions
11.00–11.20	K. Hron, E. Fišerová, P. Filzmoser, M. Templ On the interpretation of orthonormal coordinates for compositional data with applications
11.20–11.40	P. Filzmoser, K. Hron, M. Templ Discriminant analysis for compositional data and robust parameter estimation
11.40–12.00	V. Todorov Robust multivariate analysis in R
12.00–13.00	Lunch (conference room of dean's office, sixth floor)
	<i>Chair G. Wimmer</i>
13.00–13.40	J. Volaufová On testing problems in linear models with variance-covariance components
13.40–14.00	M. Mojzeš Physical heights determination by satellite and gravity measurements
14.00–14.20	J. Hefty, Ľ. Gerhátová Combination of 3D epoch-wise and permanent geodetic networks observed by global navigation satellite systems
14.20–14.40	Coffee break
	<i>Chair P. Filzmoser</i>
14.40–15.00	A. Ruiz-Gazen Exploratory projection pursuit: a review and new proposals
15.00–15.20	M. Templ, A. Alfons, P. Filzmoser, J. Holzer Estimation of social inclusion indicators with bounded influence of incomes by tail modeling
15.20–15.40	J. Kalina Least weighted squares applied to robust image analysis
15.40–16.00	R. Navrátil Rank tests of symmetry and R-estimation of location parameter under measurement errors
18.00–22.00	Ceremonial international meeting of applied mathematicians



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Section: Mathematical and Applied Statistics
January 28, 2011, room 2.001

Time	Project
9.00–9.30	Registration of participants (second floor)
	<i>Chair A. Pázman</i>
9.30–9.50	R. Harman, V. Lacko Algorithms for uniform sampling from n-spheres and n-balls
9.50–10.10	O. Nánásiová, E. Pastuchová, Š. Václavíková, M. Sabo Classification of association coefficients and its application in cluster analysis
10.10–10.30	O. Vencálek Concept of data depth and depth based classification
10.30–11.10	Poster session (second floor)
10.50–11.10	Coffee break
	<i>Chair J. J. Egozcue</i>
11.10–11.30	P. Lachout Law of large numbers in L_2
11.30–11.50	K. Hornišová Relative influence of copula and marginals on performance of calibration methods
11.50–12.10	O. Nánásiová, Ľ. Valášková Applications of bivariable functions on quantum logics
12.30	Closing ceremony
	Lunch (conference room of dean's office, sixth floor)



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INVESTMENTS IN EDUCATION DEVELOPMENT

Conference ODAM 2011
Section: Fuzzy Sets and MCDM
January 26, 2011, room 2.005

Time	Project
	<i>Chair R. Mesiar</i>
14.00–14.40	I. Perfiljeva F-transform—a new paradigm in fuzzy modeling
14.40–15.20	V. Novák Higher-order fuzzy logic
15.20–15.40	Coffee break
	<i>Chair J. Ramák</i>
15.40–16.20	M. Vlach Principles of collective decisions
16.20–17.00	K. Zimmermann Properties and applications of (max,min)-linear equations and inequalities
19.00–20.00	Konvikt, Corpus Christi Chapel: Concert of the Stupka Quartet
20.00	Hotel Arigone restaurant—Reservation for ODAM participants



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Conference ODAM 2011
Section: Fuzzy Sets and MCDM
January 27, 2011, room 2.005

Time	Project
8.30–9.30	Registration of participants (second floor) <i>Chair V. Novák</i>
9.00–9.40	R. Viertl Fuzzy information in statistic
9.40–10.20	M. Navara Several definitions of probability on systems of fuzzy sets
10.20–10.40	Coffee break <i>Chair M. Vlach</i>
10.40–11.20	J. Ramík Interval and fuzzy linear programming (demonstrated by example)
11.20–12.00	P. Fiala Multiobjective De Novo linear programming
12.00–13.00	Lunch (conference room of dean's office, sixth floor) <i>Chair P. Fiala</i>
13.00–13.40	M. Collan Thoughts about selected models for the valuation of real options
13.40–14.20	J. Jablonský AHP model for ranking of efficient units in DEA models
14.20–14.40	Coffee break <i>Chair M. Navara</i>
14.40–15.20	M. Mareš Information measure for vague symbols
15.20–16.00	M. Kalina Evaluation of granules of a fuzzy relation by integrals
18.00–22.00	Ceremonial international meeting of applied mathematicians



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January 28, 2011, room 2.005

Time	Project
9.00–9.30	Registration of participants (second floor)
	<i>Chair O. Pavlačka</i>
9.30–9.50	J. Talašová, J. Stoklasa, J. Šanovec Mathematical models of academic staff performance evaluation
9.50–10.10	J. Stoklasa Disaster decision making support: a linguistic fuzzy model for the emergency medical rescue service
10.10–10.30	Z. Talašová The application of linguistic fuzzy models to the analysis of Adolf Loos' villas
10.30–10.50	P. Holeček, J. Talašová The software support for fuzzy multiple-criteria evaluation
10.50–11.10	Coffee break
	<i>Chair J. Talašová</i>
11.10–11.30	O. Pavlačka Fuzzy extension of the weighted average operation and defuzzification of the resulting fuzzy number
11.30–11.50	I. Bebcáková, J. Talašová Interactions among criteria as modelled by fuzzified Choquet integral
11.50–12.10	E. Bohanesová Rate of return in building savings
12.30	Closing ceremony
	Lunch (conference room of dean's office, sixth floor)



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INVESTMENTS IN EDUCATION DEVELOPMENT

Conference ODAM 2011
Section: Numerical Mathematics and PDE
January 26, 2011, room 2.004

Time	Project
	<i>Chair J. Haslinger</i>
14.00–14.40	J. Dalík, O. Příbyl Optimal energy transport by advection
14.40–15.20	R. Šimeček A note on design optimization of a beam: Algebraic sensitivity analysis
15.20–15.40	Coffee break
15.40–16.20	P. Ženčák, R. Kučera The preconditioning of linear systems in interior point method
19.00–20.00	Konvikt, Corpus Christi Chapel: Concert of the Stupka Quartet
20.00	Hotel Arigone restaurant—Reservation for ODAM participants



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Conference ODAM 2011
Section: Numerical Mathematics and PDE
January 27, 2011, room 2.004

Time	Project
8.30–9.00	Registration of participants (second floor)
	<i>Chair J. Dalík</i>
9.00–10.20	J. Haslinger Free material optimization
10.20–10.40	Coffee break
10.40–11.20	J. Machalová, H. Netuka Linear beams on nonlinear foundation
11.20–12.00	H. Netuka, J. Machalová Consider Brouwer
12.00–13.00	Lunch (conference room of dean's office, sixth floor)
	<i>Chair R. Kučera</i>
13.00–13.40	T. Füst, M. Mistrík Automatic analysis of digital images originating in quantitative immunofluorescent analysis of DNA damage markers
13.40–14.20	R. Vodák, T. Füst, T. Šír, M. Bíl On the incompatibility of Richards' equation and finger-like infiltration in unsaturated homogeneous porous media
14.20–14.40	Coffee break
14.40–15.20	T. Ligurský, Y. Renard Computing non-unique solutions of quasi-static contact problems with coulomb friction
18.00–22.00	Ceremonial international meeting of applied mathematicians



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9.00–9.30	Registration of participants (second floor)
	<i>Chair H. Netuka</i>
10.00–10.40	R. Kučera On optimization algorithms for solving contact problems
10.40–11.20	L. Jüttner Automotive lighting with improved luminous homogeneity
12.30	Closing ceremony
	Lunch (conference room of dean's office, sixth floor)