

Conference Mathematical Methods in Economics 2014 Plenary session

September 10, 2014, room 2.001 (second floor)

The plenary session will be also streamed to the room 2.005.

7:30-9:00	Registration of participants (second floor)
9:00-9:15	Opening ceremony
	Chair Jana Talašová
9:15-10:00	Jaroslav Ramík
	Pairwise Comparison Matrix With Fuzzy Elements
10:00-10:45	Michele Fedrizzi
	Pareto efficient weights from pairwise comparison matrices and norm–induced
	distances
10:45-11:15	Coffee break

Conference Mathematical Methods in Economics 2014 Session A

September 10, 2014, room 2.001 (second floor)

	Chair Ondřej Pavlačka
11:15-11:35	Radomír Perzina and Jaroslav Ramík
	Solving Multicriteria Decision Making Problems using Microsoft Excel
11:35–11:55	Markéta Matulová
	A New Measure of Consistency of Additive Preference Matrix in Pairwise
	Comparisons
11:55-12:15	Věra Jandová, Jan Stoklasa and Jana Talašová
	Modification of the AHP based model for evaluating artistic production of
	Czech colleges
12:15-12:35	Pavel Holeček and Jana Talašová
	Multiple-Criteria Fuzzy Evaluation in FuzzME – Transitions Between Different
	Aggregation Operators
12:35–14:00	Lunch (Menza Šmeralova)
	Chair Milan Vlach
14:00-14:20	Mikuláš Luptáčik
	Data Envelopment Analysis for Measuring Economic Growth in Terms of
	Welfare
14:20-14:40	Milan Vlach
	Approximation operators in covering-based approach to rough sets
14:40-15:00	Ondřej Pavlačka and Pavla Melicheríková
	Probability of Fuzzy Events
15:00-15:20	Josef Jablonský
	Multiplicative efficiency and cross-efficiency: a comparative study
15:20-15:45	Coffee break
	Chair Josef Jablonský
15:45-16:05	Zuzana Kiszová
	Multicriteria evaluation of employees – case study
16:05-16:25	Robert Hlavatý
	Saaty's matrix revisited: Securing the consistency of pairwise comparisons
16:25–16:45	Jiří Mazurek
	An Alternative Approach to Interval AHP
18:00-19:00	Meeting of the Czech Society for Operations Research
19:00-21:00	Welcome evening

Conference Mathematical Methods in Economics 2014 Session A

September 11, 2014, room 2.001 (second floor)

9.00 0.00	Davistantian of manticipants (according on)
8:00-9:00	Registration of participants (second floor)
	Chair Jan Stoklasa
9:00-9:20	Jan Stoklasa, Pasi Luukka and Jana Talašová
	Classifier performance assessment in social science - does the quality of data
	matter?
9:20-9:40	Zuzana Dlouhá and Martin Dlouhý
	Factors of dissatisfaction with chosen study programme
9:40-10:00	Tommaso Lando and Lucio Bertoli-Barsotti
	New tools for complementing the h-index: an empirical study
10:20-10:40	Coffee break
	Chair Yuri Lawryshyn
10:40-11:00	Yuri Lawryshyn and Michael Vinelli
	A Comprehensive Discounted Cash-Flow Analysis Using Real Options
11:00-11:20	Maria Kobzareva and Jan Pelikán
	Fuzzy approach for portfolio selection problem
11:20-11:40	Tomasz Nawrocki and Izabela Jonek-Kowalska
	The use of fuzzy logic in the enterprises operating risk assessment on the
	example of coal mining companies listed on the Warsaw Stock Exchange
12:00-13:30	Lunch (Menza Šmeralova)
14:00-18:00	Conference trip
19:00-22:00	Conference dinner

Conference Mathematical Methods in Economics 2014 Session A

September 12, 2014, room 2.001 (second floor)

0.00.000	
8:00-9:00	Registration of participants (second floor)
	Chair Vladimír Mlynarovič
9:00-9:20	Ladislav Beránek
	A Belief Theoretic Approach to Finding a True Value from Recommendations
	in E-business
9:20-9:40	Eduard Hozlár and Vladimír Mlynarovič
	Multiple Criteria Approaches in Insurance Fraud and Receivables Nonpayment
	Risk Modeling
9:40-10:00	Monika Molnárová
	Robustness of Monge matrices in fuzzy algebra
10:00-10:20	Helena Myšková
	Interval Max-drast Systems of Linear Equations
10:20-10:40	Coffee break
	Chair Edward Kasem
10:40-11:00	Edward Kasem, Oldřich Trenz and Jiří Hřebíček
	Statistical Method and Neural Network for Sustainability Evaluation
11:00-11:20	Michal Kvasnička
	Search for the optimal strategy to spread a viral video: An agent-based model
	optimized with genetic algorithms
11:20-11:40	Bronislav Chramcov and Robert Bucki
	Decision Making Support of Logistics Tasks in the Manufacturing System
11:40-12:00	Elena Mielcová
	Application of an Asymmetric Banzhaf Power index: The Case of the Czech
	Parliament
12:00-13:30	Lunch (Menza Šmeralova)
	Chair Ondřej Pavlačka
13:30-13:50	Pavla Melicheríková
	A Cost-based Model for Support of Decision-making about a Spare-parts
	Storage
13:50-14:10	Renata Klufová and Michael Rost
	Is it possible to use multi-criteria criteria decision making methods for rural
	typology?
14:10-14:30	Jan Manďák
	Efficiency of 15 EU countries and the role of ICT: a stochastic frontier analysis
	approach
14:30-14:50	Ladislava Issever Grochová, Jitka Janová, David Hampel and Luboš Střelec
	Alternative approach of assessing European countries efficiency from the per-
	spective of sustainable economic performance

Conference Mathematical Methods in Economics 2014 Session B

September 10, 2014, room 2.005 (second floor)

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	Chair Michal Dorda
11:15–11:35	Michal Dorda and Dušan Teichmann
	M/En/1/m queueing system subject to catastrophes
11:35–11:55	Anastasiya Fesenko
	The real use of operations research methods in conjunction with logistics
	technologies
11:55–12:15	Karel Sladký
	The Variance of Discounted Rewards in Markov Decision Processes: Laurent
	Expansion and Sensitive Optimality
12:35-14:00	Lunch (Menza Šmeralova)
	Chair Petr Fiala
14:00-14:20	Petr Fiala
	Models of Coordination Games
14:20-14:40	Milan Horniaček
	Strong Nash general equilibrium
14:40–15:00	Anna Sroczyńska-Baron
	The analysis of the limit of obligatory offer for chosen sectors in Poland with
	the use of cooperative games
15:20-15:45	Coffee break
	Chair Petra Dotlačilová
15:45–16:05	Petra Dotlačilová, Ondřej Šimpach and Jitka Langhamrová
	The use of polynomial functions for modelling of mortality at the advanced
	ages
16:05–16:25	Jana Langhamrová and Markéta Arltová
	Life Expectancy and Modal Age at Death in the Czech Republic in 1920-2012
16:25–16:45	Martina Kuncová and Jana Sekničková
	Analysis of the efficiency of the electricity supplier selection depending upon
	the price changes
16:45–17:05	Jana Sekničková and Martina Kuncová
	Evaluation of the locality influence on the electricity supplier selection
18:00-19:00	Meeting of the Czech Society for Operations Research
19:00-21:00	Welcome evening

September 11, 2014, room 2.005 (second floor)

8:00-9:00	Registration of participants (second floor)
	Chair Milan Vlach Ph.D. Student Competition
9:00-9:20	Milan Bouda
	Macroprudential experiment using the DSGE model of the Czech Republic
	with Housing sector
9:20-9:40	Jana Krejčí
	Fuzzy Maximal Eigenvalues of Fuzzy Pairwise Comparison Matrices
9:40-10:00	Radek Hendrych
	Recursive Estimators of GARCH Models: Selected Problems
10:00-10:20	Petra Matušková
	Estimating capital requirement according to Solvency II and its impact on
	insurance companies
10:20-10:40	Karel Lavička
	Futures Trading with Transaction Costs
10:40-11:00	František Zapletal
	Mean-risk model optimizing the heavy industrial company's profit with respect
	to environmental aspects
12:00-13:30	Lunch (Menza Šmeralova)
14:00-18:00	Conference trip
19:00-22:00	Conference dinner

Conference Mathematical Methods in Economics 2014 Session B

September 12, 2014, room 2.005 (second floor)

8:00-9:00	Registration of participants (second floor)
	Chair Tomáš Šubrt
9:00-9:20	Tomáš Talášek, Jana Talašová, Eva Bohanesová and Jan Stoklasa
9:00-9:20	
	Investment decision making using fuzzy scorecards - mutual funds selection
9:20-9:40	Helena Brožová, Tomáš Šubrt and Jan Bartoška
	Fuzzy Approach to Risk Appetite in Project Management
9:40-10:00	Petr Kučera, Jan Bartoška and Tomáš Šubrt.
	Mathematical models of the work contour in project management
10:00-10:20	Iveta Bebčáková and Pavla Kouřilová
	Social choice function and multiple criteria group decision making
10:20-10:40	Coffee break
	Chair Jan Gorecki
10:40-11:00	Jan Górecki, Marius Hofert and Martin Holeňa
	The consistency of estimators for hierarchical Archimedean copulas estimation
11:00-11:20	Stanisław Wanat, Monika Papież and Sławomir Śmiech
	The conditional dependence structure between precious metals: a copula-
	GARCH approach
11:20-11:40	Michal Houda
	A note on the use of copulas in chance-constrained programming
11:40-12:00	Monika Papież
	A dynamic analysis of causality between prices of corn, crude oil and ethanol
12:00-13:30	Lunch (Menza Šmeralova)

Conference Mathematical Methods in Economics 2014 Session C

September 10, 2014, room 3.003 (third floor)

	Chair Petr Volf
11:15-11:35	Petr Volf
	On Bayes approach to optimization
11:35–11:55	Jan Černý, Anna Černá and Štefan Peško
	Modification of the Method PRIVOL for Optimal Routing and Frequencing
11:55-12:15	Jan Pelikán
	Randomized heuristics for capacitated arc routing problem
12:35-14:00	Lunch (Menza Šmeralova)
	Chair Jaroslav Janáček
14:00-14:20	Jaroslav Janáček and Marek Kvet
	Lexicographic Optimal Public Service System Design
14:20-14:40	Marek Kvet and Jaroslav Janáček
	Price of Fairness in Public Service System Design
14:40-15:00	Matej Cebecauer
	Generating Data Model for the Public Service System Design from the Open-
	StreetMap: Network and the Shortest Paths
15:00-15:20	Tomáš Majer
	Designing a Fair Public Urban Transport System
15:20-15:45	Coffee break
	Chair Juraj Pekár
15:45-16:05	Zuzana Čičková, Ivan Brezina and Juraj Pekár
	Open vehicle routing problem
16:05–16:25	Zuzana Čičková, Marian Reiff and Kvetoslava Surmanová
	Split Delivery Vehicle Routing Problem with Time Windows
16:25–16:45	Jan Melechovský
	A Variable Neighborhood Search for the Capacitated Arc Routing Problem
	with Time Windows
16:45–17:05	Pavel Kolman
	Dynamic transportation problem with partial limitations of material for each
	participant of the transport
18:00-19:00	Meeting of the Czech Society for Operations Research
19:00-21:00	Welcome evening

Conference Mathematical Methods in Economics 2014 Session C

September 11, 2014, room 3.003 (third floor)

0.00.00	
8:00-9:00	Registration of participants (second floor)
	Chair Martina Kuncová
9:00-9:20	Jan Voráček, Hana Vojáčková, Martina Kuncová and David Zažímal
	Modeling, Optimization and Visualization of Hospital Emergency Department
9:20-9:40	Štefan Peško and Roman Hajtmanek
	Matrix permutation problem for fair workload distribution
9:40-10:00	František Koblasa and František Manlig
	Application of Adaptive Evolution Algorithm on real-world Flexible Job Shop
	Scheduling Problems
10:00-10:20	Angelina Rajda
	Inference about product reliability by the analysis of complaints as a strategy
	for manufacturing process optimization
10:20-10:40	Coffee break
	Chair Karel Zimmermann
10:40-11:00	Stanislav Palúch and Ivana Urbaničová
	A Heuristic Approach to the p-Median Problem Using a Set Covering
	Formulation
11:00-11:20	Nikola Kaspříková
	Finding Optimal Variable Weights for Distance Calculation Using Metaheu-
	ristic Algorithms
11:20-11:40	Karel Zimmermann
	Machine Time Scheduling Problems with Extremally Separable Functions
12:00-13:30	Lunch (Menza Šmeralova)
14:00-18:00	Conference trip
19:00-22:00	Conference dinner

Conference Mathematical Methods in Economics 2014 Session C

September 12, 2014, room 3.003 (third floor)

8:00-9:00	Registration of participants (second floor)
	Chair Jan Černý
9:00-9:20	Anna Černá, Jan Černý and Jaroslav Matuška
	Optimal Scheduling of Vehicles for Wheelchair Users
9:20-9:40	Vojtěch Graf and Dušan Teichmann
	Timetable Optimization for Charter Air Transport Company
9:40-10:00	Michal Koháni
	Heuristic Approach to the Zone Partitioning Problem in Counting Zones Tariff
	System
10:00-10:20	Jana Kramulová, Josef Jablonský and Jan Zeman
	Application of optimisation models in visualisation of regional data
10:20-10:40	Coffee break
	Chair Jiří Hřebíček
10:40-11:00	Petr Kozel and Šárka Michalcová
	The using of linear programming for solving the municipal waste collection
	problem
11:00-11:20	Jana Soukopová, Jiří Kalina and Jiří Hřebíček
	Mathematical and economic model of municipal waste management using
	Maple
11:20-11:40	Jiří Hřebíček, Oldřich Trenz, Zuzana Chvátalová and Jana Soukopová
	Evaluation of corporate performance using data envelopment analysis with
	Maple
11:40-12:00	Zuzana Chvátalová, Jiří Hřebíček and Hana Zaoralová
	Optimization of Logistics in Service Company for Sustainability Performance
12:00-13:30	Lunch (Menza Šmeralova)
	Chair Vlasta Kaňková
13:30-13:50	Vlasta Kaňková
	Multiobjective Stochastic Optimization Problems with Probability Constraints
13:50-14:10	Kirill Odintsov
	SDP application on portfolio optimization problem with non-convex quadratic
	constraints
14:10-14:30	Emília Draženská
	On the Crossig number of Cartesian Products

Conference Mathematical Methods in Economics 2014 Session D

September 10, 2014, room 3.005 (third floor)

11:15-11:35 Vlastimil Reichel and Miroslav Hloušek RBC model vs. New Keynesian model: time series analysis of Czech data 11:35-11:55 Václav Adamec Effects of Interventions and Outliers on Mean Function and Volatility in Currency Exchange Rates 11:55-12:15 Jiří Hofman and Ladislav Lukáš Markov chain model used for sensitivity analysis of paid/unpaid claims in after-payment-due process 12:35-14:00 Lunch (Menza Smeralova) Chair Daniel Němec 14:00-14:20 Klára Hrůzová, Karel Hron and Valentin Todorov Compositional orthogonal regression of the resource efficiency in manufacturing 14:20-14:40 Kamila Fačevicová, Valentin Todorov and Karel Hron Compositional tables analysis with application to manufacturing 14:40-15:00 Daniel Němec Efficiency of the European labour markets: The Case of Czech Republic (A Stochastic frontier model approach) 15:00-15:20 Maciej Kostrzewski, Sławomir Śmiech, Monika Papież and Marek Dąbrowski Commodity prices and real and financial processes in the Euro area: a Bayesian SVAR approach 15:20-15:45 Coffee break Chair Jan Kalina 15:45-16:05 Jan Kalina and Katarína Vlčková Robust regularized cluster analysis for high-dimensional data 16:25-16:45 Malgorzata Szerszunowicz On the use of the balanced half-samples method in the construction of factorial designs 16:45-17:05 Stanislav Sopko and Nataliya Soldatyuk Using cluster analysis techniques based on K-means and Kohonen clustering methods in credit scoring		Chair Jiří Hofman
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methods in credit scoring 18:00–19:00 Meeting of the Czech Society for Operations Research	16:45–17:05	Stanislav Sopko and Nataliya Soldatyuk
18:00–19:00 Meeting of the Czech Society for Operations Research		Using cluster analysis techniques based on K-means and Kohonen clustering
		methods in credit scoring
10.00 21.00 W.l	18:00-19:00	Meeting of the Czech Society for Operations Research
19:00–21:00 Welcome evening	19:00-21:00	Welcome evening

Conference Mathematical Methods in Economics 2014 Session D

September 11, 2014, room 3.005 (third floor)

8:00-9:00	Registration of participants (second floor)
0.00 9.00	Chair Michal Černý
0.00.0.00	o .
9:00-9:20	Aleksandra Baszczyńska and Dorota Pekasiewicz
	Statistical inference about modality of random variable
9:20-9:40	Michal Černý
	Interval data and sample variance: computational issues
9:40-10:00	Jitka Bartošová and Vladislav Bína
	The measure of separation of components in final mixtures of probability
	densities
10:00-10:20	Malgorzata K. Krzciuk
	On the design accuracy of Royall's predictor of domain total for longitudinal
	data
10:20-10:40	Coffee break
	Chair Jan Kodera
10:40-11:00	Marta Malecka
	Multivariate approach to testing VaR models
11:00-11:20	Jan Kodera and Quang Van Tran
	Evaluation of the effects of inflation targeting policy by a modified VAR model
11:20-11:40	Jan Brůha
	A Comparison of Bayesian Methods for Estimating of Multivariate Models
	with Censored Data
11:40-12:00	Přemysl Bejda
	Geometric median, its applications and generalizations
12:00-13:30	Lunch (Menza Šmeralova)
14:00-18:00	Conference trip
19:00-22:00	Conference dinner

Conference Mathematical Methods in Economics 2014 Session D

September 12, 2014, room 3.005 (third floor)

8:00-9:00	Registration of participants (second floor)
	Chair Kamila Hasilová
9:40-10:00	Richard Horský
	Random Walk Process And Its Invertibility
10:00-10:20	Kamila Hasilová
	Iterative Bandwidth Selection in Kernel Discriminant Analysis
10:20-10:40	Coffee break
	Chair Pavel Pražák
10:40-11:00	Michaela Staníčková and Lukáš Melecký
	Examination of Internal Relations in Input-Output Factors of Competitiveness
	by SEM Method
11:00-11:20	Pavel Pražák
	Optimal Control Model of Production-Inventory System
11:20-11:40	Michal Řičař
	Factor and Principal Component Analysis in Scoring Modeling using SAS®
	System
12:00-13:30	Lunch (Menza Šmeralova)
	Chair Radim Dolák
13:30–13:50	Radim Dolák, Jan Górecki, Lukáš Slechan and Michael Kubát
	Categorical data analysis from Lean Company research
13:50–14:10	Magdalena Chmielińska
	The cost of acceptance sampling in case of alternative qualifications of products
	due to many features
14:10-14:30	Lenka Gladavská, Lenka Králová and Miroslav Plevný
	A production line inventory control model with an unbalanced output of the
	individual production facilities and with respect to other limitations

Conference Mathematical Methods in Economics 2014 Session E

September 10, 2014, room 5.006 (fifth floor)

	Chair Ondřej Čížek
11:15-11:35	Ondřej Čížek
	Forecasting Unemployment in the Eurozone
11:35-11:55	Zuzana Palová and Milena Botlíková
	Correlation analysis of regional disparities – the unemployment rate and crime
	regions of the Czech Republic
11:55-12:15	Silvie Bělašková and Eva Fišerová
	Detection of Influential Factors on Unemployment Duration of University of
	Tomas Bata Graduates by the Hazard Model
12:15-12:35	Šárka Horáková and Robert Jahoda
	Decomposition of fiscal imbalance in EU member countries
12:35-14:00	Lunch (Menza Šmeralova)
	Chair Václava Pánková
14:00-14:20	Vladimír Přibyl and Jan Černý
	Delay Management in Public transport
14:20-14:40	Vítězslav Píša and Jan Brůha
	A microeconometric analysis of household expenditures on transport services
	in the Czech Republic
14:40-15:00	Václava Pánková
	Capital mobility measurements
15:00-15:20	Dušan Teichmann, Michal Dorda, Jakub Vítek and Vladimír Smrž
	Modelling Destination Portfolio for International Regional Airport
15:20-15:45	Coffee break
	Chair Vladimír Hajko
15:45-16:05	Ladislava Issever Grochová and Petr Rozmahel
	Some methodological limitations of business cycle analysis within the Euro-
	pean area
16:05–16:25	Lucie Zotyková and Jiří Mazurek
	On a Gravity Equation of Trade: A Case of Germany and the Czech Republic
16:25–16:45	Vladimír Hajko, Naďa Birčiakova and Jana Stávková
	The trends in the income distributions in the EU-27 countries: Measuring the
	differences
16:45–17:05	Jaroslav Schulz, Štěpán Mikula
	Minimum wage setting mechanism and its effects
18:00-19:00	Meeting of the Czech Society for Operations Research
19:00-21:00	Welcome evening

Conference Mathematical Methods in Economics 2014 Session E

September 11, 2014, room 5.006 (fifth floor)

8:00-9:00	Registration of participants (second floor)
	Chair Jaroslava Pražáková
9:00-9:20	Anna Dobešová and David Hampel
	Asymmetries in Effects of Monetary Policy and their Link to Labour Market
	- Application of TVP-VARs to Three European Countries
9:20-9:40	Rostislav Staněk
	Convergence to monetary equilibrium in search model
9:40-10:00	Jaroslava Pražáková and Martin Pech
	Financial threats of network stability caused by fragments tending to
	bankruptcy
10:00-10:20	Ondřej Šimpach and Jitka Langhamrová
	Stochastic Modelling of Age-specific Mortality Rates for Demographic Pro-
	jections: Two Different Approaches
10:20-10:40	Coffee break
	Chair Karol Szomolányi
10:40-11:00	Karol Szomolányi, Martin Lukáčik and Adriana Lukáčiková
	Small Open Economy Real Business Cycle Model of the Slovak Economy
11:00-11:20	Libor Žídek and Daniel Němec
	The role of exchange rate dynamics in Bulgaria and Romania in the process
	of economic transition
11:20-11:40	Justyna Wróblewska and Marek A. Dąbrowski
	Financial shocks and real exchange rate movements in Poland and Slovakia in
	the global financial crisis
11:40-12:00	Miroslav Žižka
	Model of Evaluation of Socio-Economic Disparities of Sub-Regional Units in
12.00.12.20	the Czech Republic
12:00-13:30	Lunch (Menza Šmeralova)
14:00-18:00	Conference trip
19:00-22:00	Conference dinner

Conference Mathematical Methods in Economics 2014 Session E

September 12, 2014, room 5.006 (fifth floor)

8:00-9:00	Registration of participants (second floor)
	Chair Miloslav Vošvrda
9:00-9:20	Jana Hančlová and Milan Šimek
	Do active labour market policy programmes contribute to lower unemployment
	in the EU countries?
9:20-9:40	Ladislav Krištoufek and Miloslav Vošvrda
	Commodity futures and market efficiency
9:40-10:00	Marek Spišák and Roman Šperka
	On Trading Price Microeconomic Estimation in Monte Carlo Simulation
10:00-10:20	Elena Kuchina
	Analysis of the Dependence of the Biggest Oil Companies' Revenues on the
	World Oil and Gas Price by using Panel Data Tools
10:20-10:40	Coffee break
	Chair Petr Lachout
10:40-11:00	Kamila Olševičová
	Applying System Dynamics and Agent-based Modelling in Archaeological
	Simulation
11:00-11:20	Dominika Polko
	On testing the similarity of multivariate populations structures
11:20-11:40	Jan Acedański
	Pension reforms and welfare gains from eliminating business cycle in Poland
11:40-12:00	Petr Lachout
	On functional definition of time-series models
12:00-13:30	Lunch (Menza Šmeralova)

September 10, 2014, room 5.007 (fifth floor)

Chair Tomáš Tichý 11:15–11:35 Aleš Melecký Credit risk in the Czech Construction Sector
Credit risk in the Czech Construction Sector
11:35–11:55 Tomáš Tichý
Comparison of market risk models with respect to suggested changes of Base
Accord
11:55–12:15 Jaroslav Dufek and Martin Šmíd
Multifactor dynamic credit risk model
12:15–12:35 Nataliya Soldatyuk and Stanislav Sopko
Methods of solving missing data issues in credit risk scoring and compariso
of its effectiveness
12:35–14:00 Lunch (Menza Šmeralova)
Chair Elena Mielcová
14:00–14:20 Filip Tošenovský and Elena Mielcová
An Analysis of the Interconnection of the Czech and Global Stock Markets
14:20–14:40 Simona Hašková and Robert Zeman
Analytical Microeconomics as a Search Tool for the Stock Optimization
14:40–15:00 Petr Seďa
Conditional Volatility Model Selection and Comparison: Example from Stoc
Markets
15:00–15:20 Tomáš Výrost and Štefan Lyócsa
Mean-Variance Distance Based Stock Market Networks in Portfoli
Optimization
15:20–15:45 Coffee break Chain Milagel College
Chair Mikael Collan
15:45–16:05 Mario Fedrizzi, Mikael Collan, and Pasi Luukka
Group Possibilistic Risk Aversion and its Impact on Giga-Investments Insurance
16:05–16:25 Ladislav Lukáš
Numerical analysis of 3-D nonlinear financial model with lagged variables
influence of initial histories
16:25–16:45 Tomasz Węgrzyn
The omega ratio in the performance evaluation of mutual funds using the
market timing strategy on the Polish financial market
16:45–17:05 Radosław Pietrzyk
Evaluation of mutual fund performance on Polish capital market with the us
of market timing models
18:00–19:00 Meeting of the Czech Society for Operations Research
19:00–21:00 Welcome evening

September 11, 2014, room 5.007 (fifth floor)

8:00-9:00	Registration of participants (second floor)
	Chair Ladislav Lukáš
9:00-9:20	Jitka Poměnková and Zuzana Kučerová
	The Comovement of Financial and Trade Integration: Wavelet Co-Spectrum
	Approach
9:20-9:40	Svatopluk Kapounek and Jitka Poměnková
	Credit and Business Cycle Co-movements in V4 countries: Evidence from Wa-
	velet Analysis
9:40-10:00	Marek A. Dąbrowski, Monika Papież and Sławomir Śmiech
	Are exchange rates in CEE countries driven by monetary fundamentals? Evi-
	dence from a panel approach
10:00-10:20	Marco Cassader and Tomáš Tichý
	Numerical Methods for Option Pricing
10:20-10:40	Coffee break
	Chair Pavel Zimmermann
10:40-11:00	Monika Miśkiewicz-Nawrocka and Katarzyna Zeug-Żebro
	The effect of the NRL indicator on the accuracy of financial series forecasts
11:00-11:20	Stanislaw Barczak
	Modeling the volatility: gray model $\mathrm{GM}(1,1)\text{-}\mathrm{GARCH}$ vs. conventional GARCH
	model
11:20-11:40	Kamil Kladívko and Pavel Zimmermann
	Index Clause Valuation under Stochastic Inflation and Interest Rate
11:40-12:00	Adam Borovička
	Application possibilities of McCahone's approach
12:00-13:30	Lunch (Menza Šmeralova)
14:00-18:00	Conference trip
19:00-22:00	Conference dinner

September 12, 2014, room 5.007 (fifth floor)

9.00 0.00	Designation of nonticipants (second floor)
8:00-9:00	Registration of participants (second floor)
	Chair Quang Van Tran
9:00-9:20	Quang Van Tran and Jan Kodera
	A simulated heterogeneous agent double auction stock market
9:20-9:40	Sergio Ortobelli Lozza, Tomáš Tichý and Filomena Petronio
	On the use of dispersion measures consistent with additive shifts
9:40-10:00	Radosław Pietrzyk and Pawel Rokita
	Optimization of financing multiple goals with multiple investment programs
	for household financial planning
10:00-10:20	Jana Hvozdenská and Veronika Kajurová
	The application of sovereign bond spreads: The case of France, Germany and
	Great Britain
10:20-10:40	Coffee break
	Chair Milan Svoboda
10:40-11:00	Milan Svoboda and Ladislav Lukáš
	Possibilities of using Markov chains for construction of technical analysis indi-
	cators of stock exchange index PX
11:00-11:20	Petr Suchánek, Franciszek Marecki, Monika Marecka and Robert Bucki
	Analysis of Portfolio Options in the Field of Financial Logistics
11:20-11:40	Agata Gluzicka
	Diversification Effect on the Warsaw Stock Exchange
11:40-12:00	Miloš Kopa
	Minimal Risk Portfolios under SSD efficiency constraints
12:00-13:30	Lunch (Menza Šmeralova)

Conference Mathematical Methods in Economics 2014 Session G

September 10, 2014, room 5.008 (fifth floor)

	Chair Ludvík Friebel
11:15-11:35	Veronika Hedija
	Gender Pay Gap in Different Sectors of Czech Economy
11:35-11:55	Kamila Turečková and Eva Kotlánová
	Poverty analysis and measuring income inequality in Czech Republic
11:55-12:15	Ludvík Friebel and Jana Friebelová
	Using Malmquist index for evaluation of life quality development in the dist-
	ricts of the Czech Republic
12:15-12:35	Ľubica Šimková
	Impact of cooperation on firms on both sides of the market on innovation
12:35-14:00	Lunch (Menza Šmeralova)
	Chair Tomáš Formánek
14:00-14:20	Veronika Končiková
	The impact of China's economic rise on Czech Republic's car exports
14:20-14:40	Igor Kotlán, Zuzana Machová and Agata Drobiszová
	Uncertainty or Level of Government Expenditure - What Is More Harmful for
	Economy?
14:40-15:00	Tomáš Formánek and Roman Hušek
	Robustness in estimated macroeconomic policy factors for the Czech Republic
15:20-15:45	Coffee break
	Chair Jaroslav Sixta
15:45-16:05	Luboš Střelec, David Hampel, Ladislava Issever Grochova and Jitka Janová
	On the measurement of sustainable economic performance
16:05-16:25	Jaroslav Sixta, Jakub Fischer and Jaroslav Zbranek
	Regional Input-Output Tables
16:25-16:45	Václav Školuda
	Comparative sensitivity analysis of CGE model results obtained by different
	model formulations
18:00-19:00	Meeting of the Czech Society for Operations Research
19:00-21:00	Welcome evening

Conference Mathematical Methods in Economics 2014 Session G

September 11, 2014, room 5.008 (fifth floor)

8:00-9:00	Registration of participants (second floor)
	Chair Osvald Vašíček
9:00-9:20	Adam Pápai and Daniel Němec
	Labour market rigidities: A DSGE approach
9:20-9:40	Karolína Súkupová and Osvald Vašíček
	Small open economy during the period of recession: Nonlinear DSGE model
	approach
9:40-10:00	Vratislav Pisca and Osvald Vašíček
	DSGE model with a government sector and inflation targeting: Structural
	changes of the Czech economy in a period of recession
10:00-10:20	Stanislav Tvrz and Osvald Vašíček
	Nonlinear DSGE model of a small open economy with time-varying parame-
	ters: Czech economy in a period of recession
10:20-10:40	Coffee break
	Chair Lukáš Melecký
10:40-11:00	Radmila Stoklasová
	The influence of world oil prices on wheat price level
11:00-11:20	Sławomir Śmiech
	Dissimilarity of commodity prices – the results of time series clustering
12:00-13:30	Lunch (Menza Šmeralova)
14:00-18:00	Conference trip
19:00-22:00	Conference dinner

Conference Mathematical Methods in Economics 2014 Session G

September 12, 2014, room 5.008 (fifth floor)

8:00-9:00	Registration of participants (second floor)
	Chair David Hampel
9:00-9:20	Kateřina Myšková and Jaroslav Žák
	Influence of Technical Parameters of Underpasses and Economical Aspects on
	Wildlife Migrations
9:20-9:40	David Hampel and Jitka Janová
	Simulation of reforestation system
9:40-10:00	Martina Zámková and Martin Prokop
	Consumer behaviour of young people from Slovak Republic on the field of the
	bioproducts by using the correspondence and dependence analysis
10:00-10:20	Tamara Rudinskaya
	Estimation of Technical Efficiency of Food Processing Firms in the Czech Re-
	public over the crisis period
10:20-10:40	Coffee break
	Chair Lucie Chytilová
10:40-11:00	Alena Kocmanová and Marie Pavláková Dočekalová
	Sustainable Performance Measurement Using Data Envelopment Analysis
11:00-11:20	Martin Branda
	Sample approximation techniques for DEA-risk efficiency tests
11:20-11:40	Lucie Chytilová
	Analysis of bank efficiency: an application of DEA approach in the Czech
	commercial banks
11:40-12:00	Michaela Tichá and Elena Kuchina
	Analysis of the dependence of GDP of the Russian Federation and the Euro-
	pean Union on the Oil Demand and Oil Supply
12:00-13:30	Lunch (Menza Šmeralova)