

QUANTITATIVE METHODS IN ECONOMICS (MCDM XIX)

Programme

Wednesday – 23rd May 2018

11:00 – 12:00 **Registration**

13:30 – 14:30 **Plenary session**

<i>Josef Jablonský</i>	EFFICIENCY EVALUATION IN MULTI-STAGE DEA MODELS: A MINIMAX GOAL PROGRAMMING APPROACH
<i>Jaroslav Janáček, Marek Kvet</i>	FAST ALGORITHM FOR DETERMINATION OF FULL NETWORK ARC CHARACTERISTIC IN A SERVICE SYSTEM
<i>Manuel Alberto M. Ferreira, Maria Cristina Peixoto de Matos</i>	A CODE FORM GAME IN A SELECTION PROCESS

14:30 – 15:00 **Coffee break**

15:00 – 16:30 **Parallel sessions**

Session A

<i>Marek Zinecker, Tomáš Meluzín, Marcin Faldziński, Adam P. Balcerzak, Michał Bernard Pietrzak</i>	THE USE OF BACKTESTING BINOMIAL TESTS IN ASSESMENT OF THE VALUE-AT-RISK ON GERMAN AND POLISH CAPITAL MARKETS
<i>Adam P. Balcerzak</i>	CLUSTER ANALYSIS OF EUROPEAN ECONOMIES IN REGARD TO EUROPE 2020 CLIMATE CHANGE AND ENERGY OBJECTIVES
<i>Hanna Dudek, Mariola Chrzanowska</i>	SUBJECTIVE EQUIVALENCE SCALES FOR THE VISEGRAD GROUP COUNTRIES BASED ON MINIMUM INCOME QUESTION
<i>Mariola Chrzanowska, Joanna Landmesser, Monika Zielińska-Sitkiewicz</i>	QUALITY OF LIFE IN THE VISEGRAD GROUP COUNTRIES – A MULTIDIMENSIONAL APPROACH
<i>Michał Bernard Pietrzak, Bartosz Ziemkiewicz</i>	MULTIPLE CRITERIA ANALYSIS OF DIGITAL ECONOMY IN THE EUROPEAN UNION COUNTRIES
<i>Hanna Dudek, Joanna Małgorzata Landmesser</i>	THE ANALYSIS OF DIFFERENCES IN INCOME DISTRIBUTIONS FOR MEN AND WOMEN IN VISEGRAD STATES

Session B

<i>Michal Koláček, Markéta Matulová</i>	AN APPLICATION OF HYBRID FUZZY MULTI-CRITERIA DECISION-MAKING METHOD ON A LOCATION-SELECTION PROBLEM
<i>Karel Sladký</i>	CENTRAL MOMENTS AND RISK-SENSITIVE OPTIMALITY IN MARKOV REWARD CHAINS
<i>Vlasta Kaňková</i>	SECOND ORDER STOCHASTIC DOMINANCE CONSTRAINTS IN MULTIOBJECTIVE STOCHASTIC PROGRAMMING PROBLEMS
<i>Dražen Popović, Nenad Bjelić, Milorad Vidović, Gordana Radivojević, Branislava Ratković</i>	THE MIQP MODEL FOR INVENTORY MANAGEMENT PROBLEM IN PRODUCTION SCHEDULING OF FRUIT JUICE BEVERAGES
<i>Milorad Vidović, Gordana Radivojević, Branislava Ratković, Nenad Bjelić, Dražen Popović</i>	THE FUZZY APPROACH TO RE-OPTIMIZATION OF WASTE COLLECTION ROUTES BASED ON REAL-TIME BIN STATUS DATA
<i>Eudmila Jánošíková</i>	KERNEL SEARCH FOR THE CAPACITATED P-MEDIAN PROBLEM

17:30 – 18:00 **Publishing in journals indexed in Web of Science,
meeting with editor in chief**

18:00 – 19:00 **Meeting of Slovak Society for Operations Research (only for members)**

19:00 – 23:00 **Reception**

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Thursday – 24th May 2018

08:30 – 10:00 **Parallel sessions**

Session A

<i>Ondřej Čížek</i>	S JOB-FINDING AND SEPARATION RATES IN EUROPE
<i>Jakub Chalmovianský</i>	IMPACT OF LABOUR-MARKET SEGMENTATION ON IDENTIFICATION OF PARAMETERS IN A DSGE FRAMEWORK
<i>Adam Borovička</i>	ANALYSIS OF AN INFLUENCE OF THE RISK MEASUREMENT APPROACH ON THE COMPOSITION OF AN INVESTMENT PORTFOLIO MADE BY REDUCED MARKOWITZ MODEL
<i>Juraj Dubovec, Lucia Pančíková, Lukáš Falát</i>	DISCRETE CHOICE WITH COMPLEMENTARY UTILITY FUNCTION AND FRAMING EFFECT
<i>Dušan Teichmann, Alexandra Dvořáčková, Denisa Mocková</i>	FACILITY LOCATION PROBLEMS WITH SEMI-FIXED COSTS
<i>Peter Fandel, Lubica Bartova</i>	ECO-EFFICIENCY USING DIRECTIONAL DISTANCE FUNCTIONS WITH UNDESIRABLE OUTPUTS

Session B

<i>Veronika Skocdopolova, Tomas Frolík</i>	HIDE AND SEEK – AN APPLICATION OF VEHICLE ROUTING PROBLEM IN GEOCACHING
<i>Michal Švarc</i>	ESTIMATION OF PRODUCT SUBSTITUTABILITY AND COMPLEMENTARITY
<i>Luboš Marek</i>	COMPARISON OF THE REGIONS OF THE CZECH AND SLOVAK REPUBLICS
<i>Zlatica Konôpková, Jakub Buček</i>	WORLD TAX INDEX: MEASURING TAX BURDEN IN THE CZECH REPUBLIC
<i>Jan Fábry, Jan Pelikán, Tomáš Václavů</i>	MILK-RUN OPTIMIZATION IN AUTOMOTIVE INDUSTRY
<i>Jan Zouhar, Martina Zouharová</i>	INTERACTION TERMS IN REGRESSION MODELS: SOME PRACTICAL ISSUES

10:00 – 10:30 **Coffee break**

10:30 – 12:00 **Parallel sessions**

Session A

<i>Petra Zýková</i>	COMPARISON OF RADIAL AND SBM DEA MODELS: EFFICIENCY EVALUATION OF COMPANIES SELLING SPORTS EQUIPMENT IN THE CZECH REPUBLIC
<i>Hana Fitzová</i>	INEFFICIENCY OF RAILWAYS IN CENTRAL AND EASTERN EUROPE – A DEA APPROACH
<i>Dana Figurová, Zuzana Čičková</i>	COOPERATION IN DISTRIBUTION
<i>Allan Jose Sequeira Lopez, Zuzana Čičková</i>	PRICE POLICY IN GAMES IN SPATIAL COMPETITION
<i>Renata Majovska, Petr Fiala</i>	COMBINATORIAL AUCTIONS AND DUALITY THEORY
<i>Petr Fiala, Renata Majovská</i>	APPLICATIONS OF BIFORM GAMES

Session B

<i>Vojtěch Graf, Dušan Teichmann, Michal Dorda</i>	CONTRIBUTION TO CREW ROSTERING IN AIR TRANSPORT
<i>Ivana Olivková</i>	THE APPLICATION OF MULTIPLE CRITERIA DECISION MAKING METHODS IN TRANSPORT
<i>Petr Štourač, Michal Černý, Miroslav Rada</i>	TWO HEURISTICS FOR VEHICLE ROUTING WITH THREE KINDS OF CARRIERS: A COMPUTATIONAL STUDY
<i>Marek Kvet, Jaroslav Janáček</i>	EFFICIENCY OF FORMAL ADMINISTRATOR'S RULES IN EMERGENCY SERVICE SYSTEM REENGINEERING
<i>Stanislav Palúch, Štefan Peško, Tomáš Majer</i>	ON THE STRUCTURE OF INDEPENDENT SETS IN TRIP DIGRAPH AND THEIR APPLICATIONS IN OPTIMUM VEHICLE SCHEDULING
<i>Jan Pelikán</i>	OPTIMIZATION OF INTERNATIONAL TRUCK TRANSPORT

14:00 – 18:00 **Social programme**

QUANTITATIVE METHODS IN ECONOMICS (MCDM XIX)**Programme**

Friday – 25th May 2018**08:30 – 10:00****Parallel sessions****Session A**

<i>Martina Kuncová, Jana Sekničková</i>	MULTICRITERIA EVALUATION OF THE CZECH REGIONS FROM THE SELECTED ECONOMIC ACTIVITY ASPECTS POINT OF VIEW
<i>Elżbieta Rogalska</i>	CLUSTER ANALYSIS OF ENTREPRENEURIAL ENVIRONMENT IN POLISH REGIONS
<i>Jacek Liwiński</i>	DOES COMPULSORY SCHOOLING HAVE AN IMPACT ON EARNINGS? EVIDENCE FROM POLAND
<i>Vlastimil Reichel</i>	HOME EQUITY LOAN AS A CAUSE OF ASYMMETRIC RELATIONSHIP BETWEEN REAL ESTATE PRICE AND CONSUMPTION
<i>Veronika Mitkova</i>	SOCIAL ACCOUNTING MATRIX MULTIPLIERS FOR SLOVAKIA
<i>Brian König, Gabriela Dováľová</i>	DETERMINANTS OF SLOVAK FOREIGN TRADE – COMPARISON AMONG V4 COUNTRIES BASED ON GRAVITY MODEL
<i>Martina Kuncová, Zuzana Tučková</i>	EVALUATION OF THE CZECH REGIONS FROM THE TOURISM INFRASTRUCTURE POINT OF VIEW USING TOPSIS METHOD

Session B

<i>Milan Svoboda, Miroslav Plevný, Pavla Říhová</i>	QUEUING SYSTEM AS A MODEL OF A SPECIFIC SMALL BUSINESS PROBLEM AND ITS SOLUTION BY SIMULATION TECHNIQUES
<i>Andrea Furková</i>	SPATIAL HETEROGENEITY OF REGIONAL INNOVATION PROCESSES: GEOGRAPHICALLY WEIGHTED REGRESSION APPROACH
<i>Vladimír Mlynarovič</i>	MACROECONOMIC DEVELOPMENT AND INVESTMENT OPPORTUNITIES IDENTIFICATION – HISTORICAL CONFRONTATION
<i>Kvetoslava Surmanová, Marian Reiff,</i>	CONVERGENCE OF UNEMPLOYMENT IN THE SLOVAK REPUBLIC
<i>Juraj Pekár, Ivan Brezina, Ivan Brezina Jr.</i>	PORTFOLIO SELECTION MODEL BASED ON CVaR PERFORMANCE MEASURE
<i>Karol Szomolányi, Martin Lukáčik, Adriana Lukáčiková</i>	OUTPUT DYNAMIC CHARACTERISTICS IN CHOSEN ECONOMIES
<i>Štefan Peško, Tomáš Majer</i>	NEW APPROACH TO UNIFORM WORKLOAD DISTRIBUTION PROBLEMS
<i>Michaela Chocholatá</i>	ANALYSIS OF INCOME CONVERGENCE BASED ON DIFFERENT SPECIFICATION OF SPATIAL WEIGHTS: EVIDENCE FROM NUTS 2 EU REGIONS

10:00 –**Closing of the conference**