

Wednesday 9th of September

Opening & Plenary sessions

09:00 - 11:45, KA104

Vojtěch Spáčil, František Zapletal	Opening ceremony
Christa Cuchiero	Dynamic universal approximation and optimal control for non-Markovian systems via signature stochastic differential equations
Stefan Trück	Who Sets the Price? Mathematical Models of Price Formation, Flexibility and Strategic Bidding in Electricity Markets

Parallel session I, 13:00 - 14:45

Room KA320	Session I: Sport and Decision Making
Chair: <i>Michal Černý</i>	
Miroslav Hudec , Miljan Vučetić, David Ulmann and Hanna Kristín Skaftadóttir	Asymmetric evaluation of experts opinions considering their relevancies to the evaluated proposals or candidates
Michal Černý and Vladimír Holý	Some stochastic properties of Elo and related rating systems in sports statistics
Vojtěch Šimůnek , Helena Brozova and Jan Saro	Fuzzy Multi-Attributes decision model for Athletes Position Suitability
Nour Safar	Exchange-Rate Regimes and Monetary Policy in Oil-Dependent Economies with Informality: An Agent-Based Approach
José Rodea-Zamudio, Martin Flegl, Enrique Delahoz-Domínguez and Eusebio Vargas Estrada	Evaluating Strikers and Forwards in the Bundesliga with a Two-Stage Decision-Making Framework
Room KA321	Session II: DEA and Efficiency
Chair: <i>Josef Jablonský</i>	
Rohemi Zuluaga-Ortiz, Carlos Garcia-Yerena and Enrique Delahoz-Domínguez	A DEA-Bootstrap Framework for Assessing Educational Quality in Industrial Engineering Programs
Carlos Enrique Garcia-Yerena, Rick Acosta-Vega and Enrique Delahoz-Domínguez	Assessing Value Added in Physical Education and Sports Degree Programs in Colombia Using Data Envelopment Analysis
Josef Jablonsky	Two-Stage Serial DEA Models: A Review and Super-Efficiency Extensions for Complete Ranking
Martina Kuncová and Roman Fiala	Performance Dynamics of Czech Breweries: An Updated DEA-Based Assessment
Eva Hrabovská and Markéta Matulová	Assessing SDG 11 Efficiency in Czech Regions: An Iterative BoD-DEA Approach with Weight Restrictions

Parallel session II, 15:15 - 17:00

Room KA320		Session III: Mathematical Optimization
Chair: <i>Milan Hladík</i>		
Miklós Pintér and Bernard Cornet		The nonvacuity of the core: an alternative proof for Schmeidler's theorem
Elif Radová Garajová , Miroslav Rada and Milan Hladík		Enumerating Weakly Optimal Solutions in 0–1 Interval Linear Programming
Robert Hlavatý		Mitigating Conflict in Fair Sharing via Resource Design
Milan Hladík		How Robust Is Your Solution? Simultaneous Tolerance Analysis in Linear Programming
David Bartl		Farkas' Lemma and the Bondareva-Shapley Theorem in the Infinite Case
Room KA321		Session IV: Scheduling, Projects and Optimization
Chair: <i>Miroslav Rada</i>		
Josef Kunhart and Jan Bartoška		Metrics in Scrum: A quantitative model for evaluating metrics utilization in Scrum teams
Tomas Subrt , Jan Bartoska, Josef Kunhart, Irena Strausova and Simona Huguet		Weekday and Daytime Influence on Work Contours in Projects
Monika Matoušková and Martin Branda		Fixed Interval Scheduling with Heterogeneous Machines with Random Delays - Distributionally Robust Case
Miroslav Rada		Mixed-Integer Programming for Conference Scheduling at Scale
František Koblasa and Miroslav Vavroušek		Integrated job shop scheduling and bin packing problem
Meeting of the Czech Society for Operations Research		
17:30 - 19:00, KA416		

Thursday 10th of September

Parallel session III + PhD Competition, 08:30 - 10:15

Room KA220		PhD Competition I: Financial Markets
Chair: <i>František Zapletal</i>		
Qiyuan Dai	Investment Timing and Strategic Interaction in Cross-Border M&A: A Real Options Perspective	
Valentina Piantoni and Denise Mirabella	Path Dependent Arbitrage Portfolio Strategies	
Jialei Xiong	Translating Online Search Behavior into Quantitative Portfolio Views: Evidence from Hong Kong	
Michal Polak	Roughness and Jump Risk in Cryptocurrency Option Smiles: An Econometric Comparison	
Room KA210		Session V: Quantitative Modelling, Efficiency and Sustainability
Chair: <i>Pavel Pražák</i>		
Anton Hovana, Peter Trebuňa, Milan Edl and Jaromír Cais	Mathematical Foundations of Modern Scientometric Indices	
Pavel Pražák, Josef Toman and Andrea Ševčíková	Analysis of Productivity in an Automated Production Line and Modeling Its Dynamics	
Ladislava Míková, Pavlína Forstová Kuráňová and Václav Friedrich	Structural Modelling of Sustainability Perception: Triangulation of Survey Data and Regional Indicators	
Ondřej Sokol and Lukáš Frýd	Does energy efficiency enhance technical efficiency in agriculture?	
Petra Vašaničová, Sylvia Jenčová, Martina Košíková, Marta Miškuřová and Kateryna Melnyk	Convergence and Differentiation in Slovak Spa Enterprises: A Cluster Analysis of Financial Indicators	
Room KA211		Session VI: Transport and Emergency Systems
Chair: <i>Jaroslav Janáček</i>		
Eva Štichhauerová and Miroslav Žižka	The Impact of Competition and Quality on the Efficiency of Integrated Transportation Systems	
Lýdia Gábrišová, Jaroslav Janacek and Marek Kvet	Price of Inertia in Emergency Medical System Adjustment	
Jaroslav Janacek and Marek Kvet	Minimal Change of Ambulance Deployment to Reach Given Quality of Service	
Marek Kvet and Jaroslav Janacek	Ambulance Fleet Minimization without Loss of System Quality	
Tomáš Majer, Dalibor Gonda and Ivana Ondrušová	Counting passengers in public transport buses using door optical sensors	

Parallel session IV + PhD Competition, 10:45 - 12:30

Room KA220		PhD Competition II: Quantitative Methods and Optimization
Chair: <i>František Zapletal</i>		
Elvis Kwakye		A Multilevel Analysis of Post-Harvest Food Loss in Sub-Saharan Africa: Commodity, Food Supply Stage, and Regional Interactions
Daniil Khokhrunov		The economic impact of natural disasters on NUTS2 regions in EU
Martin Konopásek		Spatial Dynamic Model on Hierarchical Panel Data: Basic Log-likelihood Properties
Vojtěch Vávra		Beyond Predict-then-Optimize: Decision-Focused Learning for Grid-Scale Battery Arbitrage
Michal Bogar		Solving the Fixed-Destination Open Vehicle Routing Problem Using Open-Source Tools
Room KA210		Session VII: Statistics, AI and Empirical Modelling
Chair: <i>Robert Hlavatý</i>		
Jan Saro and Vojtěch Šimůnek		Explainable Artificial Intelligence for Dairy Cow Classification: A Neural Network Approach with SHAP and LIME Interpretability
Jana Heckenbergerová and Barbora Kovářová		Structural Factors Influencing AI Copyright Literacy: A Quantitative Analysis from an Academic Survey Study
Ján Kobida and Ľubica Bartová		Missing Data and Inference in Survey-Weighted Ordered Logistic Models
Markéta Šindlerová, František Zapletal, Taťána Funioková and Vítězslav Novák		Student Self-Assessment Accuracy: Insights from a Case Study
Adam Ulrich, Dušan Hrabec, Jan Krňávek, Radek Vala		An Exploratory Workflow for Stop-Level Novelty Detection in Regional Bus Delay Data
Room KA211		Session VIII: Operations, Supply and Optimization
Chair: <i>Adam Borovička</i>		
Tomasz Brzęczek		Seasonality and trend in multiproduct inventory testing and cost modelling
Vaclav Skala		Radial Basis Functions: Analytical Characterization of Polynomial Augmentation and Bias Identification
Farouk Ligali, Dušan Hrabec and Lars Magnus Hvattum		Comparative Analysis of Mathematical Programming and Metaheuristic Approaches for the Vehicle Routing Problem with Multiple Soft Time Windows
Adam Borovička		Gradual optimizing a sustainable investment portfolio: sequential mean-semivariance-ESG model

Friday 11th of September

Parallel session V, 09:00 - 10:25

Room KA211	Session IX: Macroeconomics and Regional Economics
Chair: <i>Jana Hančlová</i>	
Radmila Krkošková , Zuzana Neničková and Lucie Waleczek Zotyková	The Impact of GDP, Inflation, Industrial Employment, and Trade Openness on Foreign Direct Investment in the Visegrad Group Countries
Syed Sumair Shah	Drivers of CO2 Reduction in OECD: Financial Structure and FDI via MMQR
Jakub Illík	Strategic Behavior under Production Quotas: The Case of OPEC
Michaela Chocholata	Spatial Patterns of Household Internet Access in EU Regions: An ESDA Approach

Room KA220	Session X: Finance and Financial Markets
Chair: <i>Quang Van Tran</i>	
Quang Van Tran and Karel Brůna	Predicting of Realized Volatility of Bitcoin and Ethereum with Sample Entropy
Markéta Šindlerová, Jaroslav Urminský, Jakub Černoch and Ondřej Melecký	Legitimacy–Cost Gap in Reshoring: Evidence from Central Europe
Petra Skřípková and David Neděla	Systemic risk detection using return scenario generation and moving averages: Implications for portfolio selection
Krzysztof Piontek and Maria Mach-Król	Choosing a Value-at-Risk UC Backtest across Standard Tolerance Levels: An Exact-Size Power Analysis

Room KA210	Session XI: Contributions of doctoral students
Chair: <i>František Zapletal</i>	
Bahate Maidiya	Firm level evidence on investor sentiment and cross sectional stock market characteristics
Qian Gao	Dynamic portfolio optimization based on volatility-adaptive LSTM and tail-dependence topological network
Xiaotong Sang	Efficiency
Kryštof Tomsa	Comparison Between Logistic Regression and Machine Learning Methods Using Monte Carlo Simulations

Parallel session VI, 10:55 - 12:20

Room KA211	Session XII: Applied Econometrics and Real Estate
Chair: <i>Nikola Kaspříková</i>	
Jan Kalina and Kristýna Dvořáková	Robust Regression of Human Resources and Labor Market Dimensions of TTDI

Jaromir Zahradka and Jaroslav Marek	Modeling number of advertisements and asking prices of flats with von Mises distributions and regression analysis: Moravian-Silesian Region 2018–2025
Alena Pozdílková and Martin Pozdílek	Regional Apartment Price Disparities in the Czech Republic: Clustering, Supply Elasticity, and Labour Market Analysis with a Focus on the Moravian-Silesian Region
Nikola Kaspříková	Predicting Prices and Discovering Structure in Magic: The Gathering Card Data
Room KA220 Chair: <i>Roman Smirnov</i>	Session XIII: Quantitative and Structural Modelling
Sabina Szymczak	Composite-based analysis of the relationship between economic and social upgrading
Roman Smirnov	Fractional Economic Dynamics: Deriving Production Functions via Caputo-Type Memory Invariants
Lucie Šikudová , Dušan Hrabec and Lars M. Hvattum	A Systematic Review and Meta-Analysis of the Value of Stochastic Solution in Routing Problems with Stochastic Demands
Vít Procházka	Dynamic Cutting Stock Problem
Room KA210 Chair: <i>Vladimír Holý</i>	Session XII: Quantitative Finance and Optimization
Vladimír Holý	Granularity-Adjusted ACD Model for Trade Duration Heaping in Foreign Exchange Markets
Jakub Neugebauer	Comparison of Bootstrap Methods in Robust SSD Portfolio Optimization
Daniel Benedikt , Jan Rydval, Milan Houška and Mira Mauleshova	System Dynamics Model of Carbon Agriculture as a Complex Problem
Martin Čekal	Reinforcement Learning for Perpetual Futures Market Making
Closing ceremony 12:20 - 12:30, KA220	
František Zapletal	Closing ceremony