

# CONFERENCE PROGRAM



## QUANTITATIVE METHODS IN ECONOMICS (Multiple Criteria Decision Making XXII)

**12<sup>th</sup> - 14<sup>th</sup> June 2024 Bratislava**

Venue: Rector's Office building (Building V2)

University of Economics in Bratislava, Dolnozemska cesta 1, 852 35 Bratislava

### **12<sup>th</sup> June, 2024 (Wednesday)**

**12:00 – 13:30**      *Registration (Room C1.06, Ground Floor on the right)*

**13:30 – 14:40** *Plenary Session A (Room C1.06)*      **Chair:** Michaela Chocholata

**Vesna Cancer, Polona Tominc and Maja Rozman** HOW TO ADAPT THE FRAME PROCEDURE FOR MULTI-CRITERIA DECISION-MAKING TO MEASURE ARTIFICIAL INTELLIGENCE SUPPORT TO HUMAN RESOURCE MANAGEMENT

**Josef Jablonsky** SCIENTOMETRIC ANALYSIS OF OPERATIONS RESEARCH & MANAGEMENT SCIENCE JOURNALS: A DEA APPROACH

**14:40 – 15:00** *Coffee break*

**15:00 – 16:10** *Plenary Session B (Room C1.06)*      **Chair:** Juraj Pekar

**Jaroslav Janacek and Marek Kvet** MAXIMALLY DIVERSED IMPROVED POPULATION FOR EVOLUTIONARY METAHEURISTIC

**Petr Fiala** MODELING OF SUSTAINABLE SUPPLY CHAINS

**17:00 – 17:30** *Meeting of SSOR*

**18:00** *RECEPTION (Conference Room V2, Ground Floor on the right)*

## **13<sup>th</sup> June, 2024 (Thursday)**

**9:00 – 10:15 Session A (Room A7.12, 7<sup>th</sup> floor) Chair: Zuzana Cickova**

**Veronika Mitkova** EXPLORING THE PRIMARY FACTORS' ELASTICITIES OF SUBSTITUTION IN WAGE ANALYSIS OF IMMIGRATION

**Ludmila Janosikova** THE HOME CARE CREW SCHEDULING PROBLEM: MODEL AND CASE STUDY

**Karel Jecmen, Denisa Mockova, Dusan Teichmann and Olga Mertlova** SELECTION AND SCHEDULING OF TRANSPORT INFRASTRUCTURE PROJECTS FOR IMPLEMENTATION USING GENETIC ALGORITHMS

**Martina Kuncova, Andrea Hrnickova, Denisa Mockova and Jana Seknickova** SIMULATION MODEL FOR THE SELECTION OF A SUPPLIER OF ELECTRICITY TO HOUSEHOLDS IN THE CZECH REPUBLIC

**10:15 – 10:30 Coffee break**

**10:30 – 11:45 Session B (Room A7.12, 7<sup>th</sup> floor) Chair: Marek Kvet**

**Milan Svoboda, Pavla Rihova and Miroslav Plevny** ANALYSIS OF DIFFERENT SIMULATION TECHNIQUES FOR SOLVING QUEUEING THEORY PROBLEMS

**Marek Kvet and Jaroslav Janacek** SEQUENTIAL HEURISTIC APPROACH TO IMPROVEMENT OF UNIFORMLY DEPLOYED SET OF DESIGNS

**Peter Knizat and Andrea Furkova** PARAMETRIC MODELS IN FUNCTIONAL SPACE

**Dusan Hrabec, Jorge Oyola and Richard Hartl**: FLEET COMPOSITION, SCHEDULING AND ROUTING IN A MUNICIPAL SOLID WASTE COLLECTION SYSTEM WITH ADAPTIVE LARGE NEIGHBORHOOD SEARCH

**12:00 Break for Lunch**

**14:00 Meeting at the Bratislava Passenger Port (Osobný prístav Bratislava), Fajnorovo nábrežie 2, 81102 Bratislava, GPS: N48°8'24" E17°6'46"**

**Social programme:**

**Bratislava – Devín – Bratislava** (boat trip to Devín castle and confluence of rivers Danube and Morava). Cruise starts with views on historic part of Bratislava, its waterfront and Bratislava castle. The cruise continues under the New bridge, bridge Lanfranconi and finishes under the Devin castle. During the break in Devin - visiting of the Devin castle. Boarding for the cruise from Devin to Bratislava at 17:45. Arrival of the boat to Bratislava Passenger Port at 18:30.

## **14<sup>th</sup> June, 2024 (Friday)**

**9:00 – 10:30 Session A (Room A7.12, 7<sup>th</sup> floor) Chair: Pavel Gezik**

**Karol Szomolanyi, Martin Lukacik and Adriana Lukacikova** ANALYSIS OF CONVERGENCE IN EUROPEAN UNION ECONOMICS AND EUROPEAN MONETARY UNION ECONOMICS

**Michaela Chocholata** HEATING WITH THE SOLID FUEL: A SPATIAL ECONOMETRIC APPROACH

**Allan Jose Sequeira Lopez** SPATIAL COMPETITION: A SCENARIO OF LANZAROTE ISLAND WITH OR WITHOUT REGULATORY INTERVENTION

**Ivan Brezina, Juraj Pekar and Marian Reiff** COMPARISON OF DJIA STOCKS BASED ON FINANCIAL INDICATORS AND ESG VALUES

**Pavel Gezik** OPTIMIZING STORE PLACEMENT IN URBAN ENVIRONMENTS

**10:30 – 10:45 Coffee break**

**10:45 – 12:00 Session B (Room A7.12, 7<sup>th</sup> floor) Chair: Adriana Lukacikova**

**Zuzana Cickova and Juraj Pekar** COOPERATION IN THE TRANSPORT SYSTEM WITH INTERMEDIATE WAREHOUSES

**Petr Pokorny** APPLICATION OF THE CAPACITATED LOT SIZING PROBLEM TO THE FAST MOVING CONSUMER GOODS INDUSTRY

**Nenad Bjelic, Branislava Ratkovic and Nemanja Golubovic** IMPACT OF MIXED FREQUENCY DESTINATION ALLOCATION STRATEGIES ON THROUGHPUT OF AMRS-BASED SORTING SYSTEMS: A SIMULATION STUDY

**Branislava Ratkovic, Predrag Grozdanovic and Nenad Bjelic** SIMULATION OF VEHICLE ROUTES IN WASTE COLLECTION PROBLEM

**12:00 Closing of the conference**