NSAIS-ROW19 Workshop Schedule

Thursday – August 22nd

Venue: Auditorium - Student Association building

09.00 Opening ceremony – welcome words

09.15 Session I –Behavioral and cognitive considerations (Chair: Jan Stoklasa)

> 1. Mariia Kozlova and Jan Stoklasa - Satisfaction and Extremity Effects under the Baseline Approach in Multiple-Criteria Decision-Making Problems

> 2. Jana Stoklasová, Jan Stoklasa, Tomáš Talášek and Azzurra Morreale- Risk attitude in the context of preference extraction through questionnaires

> 3. Anssi Tarkiainen, Pasi Luukka, Ari Jantunen, Jukka-Pekka Bergman, Olli Kuivalainen and Jan Stoklasa - Managerial cognition and firm performance

> 4. Olga Bogdanova and Mariia Kozlova - First steps of Data Collection Planning for Development of Artificial Intelligence Technology for the European Crowdfunding Aggregator Platform

11.15 Lunch break (Lunch at the Student Union building)

12.15 Paper Session II – Methodological advances (Chair: Pasi Luukka)

> 1. Christoph Lohrmann and Pasi Luukka - Fuzzy similarity and entropy (FSAE) feature selection revisited by using intra-class entropy and a normalized scaling factor

> 2. Jan Stoklasa and Jana Siebert - On the use of pairwise comparisons for absolute-type evaluation

> 3. Christoph Lohrmann and Mariia Kozlova - Developing a Decision Tree Block for the Exercise Boundary Fitting Method

13.45 Break

14.00 Paper Session III - Business and industrial applications (Chair: Mikael Collan)

> 1. Stein-Erik Fleten, Benjamin Fram, Magne Ledsaak, Sigurd Mehl, Ola Røssum and Carl Ullrich - Analysing Peaking Generator Availability in PJM: The Effect of the Reliability Pricing Model

> 2. Aleksandr Popkov and Mikhail Zaboev - Extended MobileNet convolutional neural network with Bayesian approach for economic applications

> 3. Jyrki Savolainen and Michele Urbani - Optimizing maintenance scheduling of multi-machine industrial systems with simulation – example from metals mining

4. Yuri Lawryshyn - Using Boundary Fitting and Machine Learning to Value Multi-Stage Real Option Investments

16.00 End of the first workshop day

In the evening: Evening program – Dinner

Friday – August 23rd

Venue: Auditorium - Student Association building

09.30 Paper Session IV – Analytics with applications (Chair: Pasi Luukka)

1. Christoph Lohrmann and Alena Lohrmann - Missing value imputation of the cooling technology for the global thermal power plant fleet using a decision tree classifier

2. Zhukov Dmitry and Tatiana Khvatova - A stochastic dynamics model for shaping stock indexes considering self-organization processes, memory and oscillations

3. Lyudmila Vyunenko - Features of the Calibration Procedure for AK-type Macroeconomic Models

4. Mahinda Mailagaha Kumbure, Anssi Tarkiainen, Pasi Luukka, Jan Stoklasa and Ari Jantunen - Examining Inter-Causal Relationships in Shared Cognitive Maps

11.30 Lunch break

12.30 Paper Session V– Finance and Business   (Chair: Mikael Collan)

1. Lyudmila Gadasina and Kirill Tashlykov - Analysis of a Digital Transformation Factors' Impact On Company Economic Performance

2. Irina Georgescu and Jani Kinnunen – Optimal Saving by Expected Utility Operators

3. Sheraz Ahmed and Muhammad Naeem - Adaptive market hypothesis: A comparative analysis of seven major digital currencies

4. Mika Jaakkola, Andreas Mikkelsen, Sheraz Ahmed, and Mikael Collan – Using chine learning in optimizing pairs trading strategies in the Nordic context

14.40 Closing ceremony – closing words