

Machine Learning in Economics

CENTRAL Workshop@HUB

17 – 18 May 2018

Kapelle, Wirtschaftswissenschaftliche Fakultät, HU Berlin
Spandauer Straße 1, 10178 Berlin

Thursday, 17.05.18

Opening Session (Chair: Alla Petukhina)	
09:30 – 10:00	Arrival and Registration
10:00 – 10:15	Wolfgang Karl Härdle (Humboldt-Universität zu Berlin) Welcome Speech
10:15 – 10:30	Piotr Jaworski (University of Warsaw) On Evolution of the Yield Curve of CoCo Bonds
10:30 – 10:45	Magdalena Mojsiewicz (University of Szczecin) Modelling of Mortality among Oldold Groups
10:45 – 11:00	Alisa Kolesnikova (Humboldt-Universität zu Berlin) Volatility Index for Cryptocurrencies - VCRIX
11:00 – 11:30	Coffee Break

Morning Session (Chair: Alisa Kolesnikova)	
11:30 – 11:45	Ostap Okhrin (Dresden University of Technology) Statistics is Everywhere
11:45 – 12:00	Andrea Barletta (Aarhus University) It Only Takes a Few Moments to Hedge Options



12:00 – 12:15	Jiao Can (University of Chinese Academy of Sciences) Optimal design of product reliability, sales, and promotion under the nonrenewable warranty
12:15 – 12:30	Jenher Jeng (WALEX COSMOS) Very Deep Learning on Domino Effect with the Capital Market Simulation Game WALEX
12:30 – 14:00	Lunch

Afternoon Session I (Chair: Andrea Barletta)

14:00 – 14:15	Junjie Hu (Humboldt-Universität zu Berlin) Electricity Consumption Optimization Based on Time Series Forecasting
14:15 – 14:30	Robert Navrátil (Charles University Prague) Maximum Volatility Portfolio
14:30 – 14:45	Mariusz Doszyń (University of Szczecin) Intermittent Demand Forecasting: Empirical Verification
14:45 – 15:00	Alla Petukhina (Humboldt-Universität zu Berlin) Portfolio Allocation Strategies with Cryptocurrencies
15:00 – 15:30	Coffee Break



Afternoon Session II (Chair: Andrija Mihoci)

15:30 – 15:45	Alice Buccioli (Aarhus University) Portfolio Optimization in Contagious Markets
15:45 – 16:00	Xinwen Ni (Humboldt-Universität zu Berlin) LDA application in the analysis of Christmas Songs, NASDAQ News and Shakespeare
16:00 – 16:15	Iryna Okhrin (Dresden University of Technology) Sentiment Analysis for Movie Recommender System
16:15 – 16:30	Andrija Mihoci (Brandenburg University of Technology) Adaptive Order Flow Forecasting with Multiplicative Error Models
18:00 – 20:00	Dinner

Friday, 18.05.18

Morning Session I (Chair: Sascha Voekler)

10:00 – 10:15	Yegor Klochkov (Humboldt-Universität zu Berlin) and Jigao Yan (Soochow University) Network autoregression with estimated adjacency matrix
10:15 – 10:30	Krzysztof Dmytrów (University of Szczecin) Application of Multiple-Criteria Decision-Making techniques for selected take-out techniques in order-picking
10:30 – 10:45	Jan Večeř (Charles University Prague) Dynamic Probability Scoring Rules, Statistical Martingale Testing and Model Selection
10:45 – 11:00	Anna Zalewska (Warsaw University of Technology) Modified CoVaR in Portfolio Optimization



11:00 – 11:15	Sascha Vökler (Brandenburg University of Technology) Computational Intelligence in Product-line Optimization: Simulations and Applications
11:15 – 11:45	Coffee Break

Morning Session II (Chair: Raphael Reule)

11:45 – 12:00	Jacek Batóg (University of Szczecin) Estimation of Airport Noise Compensation for Real Estate Owners: Application of Cluster Analysis and GLMs (with dr hab. Iwona Forys prof. US)
12:00 – 12:15	Georg Pflug (University of Vienna) Stochastic Quasigradient Methods with Applications in Shape Optimization
12:15 – 12:30	Raphael Reule (Humboldt-Universität zu Berlin) Programming and Prejudice: Interdisciplinary Regulation with Machine Learning Methods
12:30 – 12:45	Zdeněk Hlávka (Charles University Prague) Detection of Change-Points in Martingale Difference Sequences
12:45 – 13:00	Closing Ceremony

