

The 3rd Symposium on
Quantitative Finance and Risk Analysis (QFRA 2017)
15th – 16th June 2017,
Corfu, Greece

Organized by

University of Liverpool, UK

University of Glasgow, UK

City, University of London, UK

SCHEDULE

Sponsored by

EPSRC and ESRC Centre for Doctoral Training (CDT) on Quantification and Management of Risk & Uncertainty in Complex Systems & Environments within the Institute for Risk and Uncertainty, UoL



Thursday 15th June 2017

9.00 – 9.15	Welcome talk Athanasios Pantelous, University of Liverpool, UK
9.15 – 10.15	Chair: Ioannis Kyriakou , City, University of London, UK Invited talk Steven Kou , National University of Singapore, Singapore <i>“EM Algorithm and Stochastic Control”</i>
10.15 – 10.30	small break
10.30 – 11.50	Parallel Session A.1: Financial Engineering Chair: Steven Kou , National University of Singapore, Singapore
T1: 10.30 – 10.50	Yi Hong, Xi'an Jiaotong-Liverpool University, China Xing Jin , University of Warwick, UK <i>“Dynamic Portfolio Choice in Multi-Asset Jump-Diffusion Models and Optimal Variance Swap Investments”</i>
T2: 10.50 – 11.10	Massimiliano Kaucic , University of Trieste, Italy Gianni Bossi, University of Trieste, Italy Magali Zuanon, University of Brescia, Italy <i>“Robust portfolio selection under loss aversion from a set-valued optimization perspective”</i>
T3: 11.10 – 11.30	Nikos Kavallaris , University of Chester, UK Athanasios A. Pantelous, University of Liverpool, UK <i>“Optimal portfolio and Consumption allocation: Under A Disappointment Aversion Type Utility Function”</i>
T4: 11.30 – 11.50	Vasileios Kontosakos , University of Liverpool, UK Soosung Hwang, Sungkyunkwan University, Korea Athanasios A. Pantelous, University of Liverpool, UK Vasileios Kallinterakis, University of Liverpool, UK <i>“Dynamic Asset Allocation under Disappointment Aversion Preferences”</i>
11.50 – 12.20	Coffee Break

10.30 – 11.50	<p align="center">Parallel Session A.2: Operational Risk Modelling</p> <p align="center">Chair: Hans-Jörg von Mettenheim, Acanto Research & Leibniz Universität, Hannover, Germany</p>
T5: 10.30 – 10.50	<p>Jia Shao, Coventry University, UK</p> <p>Athanasios A. Pantelous, University of Liverpool, UK</p> <p>Bilal M. Ayyub, University of Maryland, USA</p> <p>Stephen Chan, University of Manchester, UK</p> <p>Saralees Nadarajah, University of Manchester, UK</p> <p><i>“Nuclear Catastrophe Risk Bonds in a Markov Dependent Environment”</i></p>
T6: 10.50 – 11.10	<p>Shuya Zhong, National University of Singapore, Singapore</p> <p>Athanasios A. Pantelous, University of Liverpool, UK</p> <p>Mark Goh, National University of Singapore, Singapore</p> <p>Jian Zhou, Shanghai University, China</p> <p><i>“Preventive Maintenance Scheduling for Offshore Wind Farms in Fuzzy Environment”</i></p>
T7: 11.10 – 11.30	<p>Dimitris Diamantidis, Ostbayerische Technische Hochschule, Germany</p> <p>Miroslav Sykora, Czech Technical University in Prague, Czech Republic</p> <p><i>“Optimizing investments into safety and resilience of infrastructure projects considering human, economic and environmental risks”</i></p>
T8: 11.30 – 11.50	<p>Magdalena Ligus, Wrocław University of Economics, Poland</p> <p><i>“Evaluation of economic, social and environmental effects of low-emission energy technologies development in Poland - multi-criteria analysis with application of fuzzy analytic hierarchy process (FAHP)”</i></p>
11.50 – 12.20	Coffee Break

12.20 – 13.40	<p align="center">Parallel Session B.1: Market Efficiency</p> <p align="center">Chair: Jason Laws, University of Liverpool, UK</p>
T9: 12.20 – 12.40	<p>José G. Dias, Instituto Universitário de Lisboa, Portugal</p> <p><i>“Financial technical analysis using hidden Markov models”</i></p>

T10. 12.40 – 13.00	Christian-Oliver Ewald, University of Glasgow, UK Yixiao Mao , University of Glasgow, UK “Inflation Forecasting through Commodity Futures and Options”
T11. 13.00 – 13.20	Ioannis Psaradellis , University of Liverpool, UK Jason Laws, University of Liverpool, UK Athanasios A. Pantelous, University of Liverpool, UK Georgios Sermpinis, University of Glasgow, UK “Pairs trading and Technical Analysis: Is Mean Reversion Still Profitable?”
T12. 13.20 – 13.40	Yurun Yang , Xi'an Jiaotong-Liverpool University, China Ahmet Göncü, Xi'an Jiaotong-Liverpool University, China Athanasios A. Pantelous, University of Liverpool, UK “Momentum and reversal trading strategies in Chinese commodity futures markets”
13.40 – 15.00	Lunch break

12.20 – 13.40	Parallel Session B.2: Derivatives Pricing and Hedging I Chair: Xing Jin , University of Warwick, UK
T13: 12.20 – 12.40	Neofytos Rodosthenous , Queen Mary University of London, UK Hongzhong Zhang, Columbia University, USA “Beating the Omega clock: Optimal strategies for nervous and impatient investors”
T14. 12.40 – 13.00	Sang-Hyeok Lee , Ajou University, Korea Hyeong-Ohk Bae, Ajou University, Korea “Pricing European option under dynamic Markov process via perturbation method”
T15. 13.00 – 13.20	Bogdan Grechuk, University of Leicester, UK Andrzej Palczewski , University of Warsaw, Poland Jan Palczewski, University of Leeds, UK “Optimal portfolio problem with discrete distributions: is the solution unique?”

T16. 13.20 – 13.40	Otto Konstandatos , University of Technology Sydney, Australia <i>“A Novel Analytical Approach for Reset ESO Valuation Incorporating Voluntary Early Exercise and Attrition”</i>
13.40 –15.00	Lunch break

15.00 - 16.00	Chair: Damiano Brigo , Imperial College London, UK Invited Talk Gianluca Fusai , Università del Piemonte Orientale, Italy and City, University of London, UK <i>“Integrated Structural Approach to Counterparty Credit Risk with Dependent Jumps”</i>
16.00 - 16.30	coffee break
16.30 – 17.50	Parallel Session C.1: Financial Risk Management I Chair: Neofytos Rodosthenous , Queen Mary University of London, UK
T17: 16:30 – 16:50	Ding Chen , University of Sussex, UK Biao Guo, Renmin University, China David Newton, University of Bath, UK Xiaoxiang Zhang, University of Sussex, UK <i>“The Role of Credit Risk in Asset Pricing and the Price of Irrationality”</i>
T18: 16:50 – 17:10	Filipa Fernandes , Coventry University, UK Charalampos Stasinakis, University of Glasgow, UK Valeriya Bardarova, University of Glasgow, UK <i>“Bank efficiency in the euro area: New evidence from a two stage dea analysis”</i>
T19: 17:10 – 17:30	Yuxin Xie , Southwestern University of Finance and Economics, China Fan,Zhang, Southwestern University of Finance and Economics, China Xiaomeng Lu, Southwestern University of Finance and Economics, China <i>“Narrow framing and household portfolio choices”</i>

T20: 17:30 – 17:50	Xiaoxiang Zhang , University of Sussex, UK Ding Chen, University of Sussex, UK <i>“Sources of private information risk and asset pricing: A comparison between NYSE and HKEX”</i>
20.00 - 23.00	Conference Dinner

16.00 - 16.30	coffee break
16.30 – 17.50	Parallel Session C.2: Financial Networks and Applications Chair: Georgios Sermpinis , University of Glasgow, UK
T21: 16:30 – 16:50	Abdullah AlShelahi , University of Michigan, USA Romesh Saigal, University of Michigan, USA <i>“Macroscopic Look at the Equity Market”</i>
T22: 16:50 – 17:10	Michail Vamvakaris , University of Liverpool, UK Athanasios A. Pantelous, University of Liverpool, UK Konstantin Zuev, California Institute of Technology, USA <i>“Investors’ Behavior on S&P 500 Index during Periods of Market Crashes: A Visibility Graph Approach”</i>
T23: 17:10 – 17:30	Laura Ballota, City, University of London, UK Gianluca Fusai, Università del Piemonte Orientale, Italy and City, University of London, UK Ioannis Kyriakou , City, University of London, UK Nikos C. Papapostolou, City, University of London, UK Panos K. Pouliasis, City, University of London, UK <i>“Non-parametric and semi-parametric modelling of weather variables and cost-revenue analysis of ski resort establishments”</i>
T24: 17:30 – 17:50	Georgios Sermpinis, University of Glasgow, UK Arman Hassanniakalager , University of Glasgow, UK Charalampos Stasinakis, University of Glasgow, UK Thanos Verousis, Newcastle University, UK <i>“Conditional Fuzzy Inference: Beating the Bookie”</i>
20.00 - 23.00	Conference Dinner

Friday 16th June 2017

9.00 - 10.00	Chair: Athanasios Pantelous, University of Liverpool, UK Invited talk Damiano Brigo, Imperial College London, UK “The science and art of valuation”
10.00 – 10.15	small break

10.15 – 11.35	Parallel Session D.1: Derivatives Pricing and Hedging II Gianluca Fusai, Università del Piemonte Orientale, Italy and City, University of London, UK
T25: 10.15 – 10.35	Sergio Ortobelli, University of Bergamo, Italy Filomena Petronio, University of Ostrava, Czech Republic Tomas Tichy, University of Ostrava, Czech Republic Sebastiano Vitali, Charles University in Prague, Czech Republic “Timing and hedging portfolio strategies with derivatives”
T26: 10.35 – 10.55	Pilar Abad, Universidad Rey Juan Carlos, Spain Rodrigo Ferreras, Santalucía, Spain M. Dolores Robles, Universidad Complutense de Madrid and Instituto Complutense de Análisis Económico, Spain “Credit rating news and stock return synchronicity: Informational effects of regulation reforms”
T27: 10.55 – 11.15	Conrad Spanaus, Technische Universität Kaiserslautern, Germany “Portfolio Selection Using Downside Risk of Returns”
T28: 11.15 – 11.35	Yedidiah Solowiejczyk, New York University, USA “Accelerated Method for Calculating European Options Using Binomial Trees”
11.35 – 12.05	Coffee Break

10.15 – 11.35	Parallel Session D.2: Actuarial Science Chair: Colin O’Hare, Monash University, Australia
T29: 10.15 – 10.35	Luis Portugal , University of Liverpool, UK Athanasios A. Pantelous, University of Liverpool, UK Hirbod Assa, University of Liverpool, UK <i>“Multivariate claims reserving with generalized link ratios”</i>
T30: 10.35 – 10.55	Malgorzata Seklecka , University of Liverpool, UK Athanasios A. Pantelous, University of Liverpool, UK Colin O’Hare, Monash University, Australia <i>“Insurance Pricing and Reserving with the Temperature-Related Mortality Model”</i>
T31: 10.55 – 11.15	Malgorzata Seklecka, University of Liverpool, UK Norazliani Md Lazam , University of Liverpool, UK Athanasios A. Pantelous, University of Liverpool, UK Colin O’Hare, Monash University, Australia <i>“Mortality Effect of Economic Fluctuations in the selected Eurozone Countries”</i>
T32: 11.15 – 11.35	Colin O’Hare , Monash University, Australia Bonsoo Koo, Monash University, Australia Andrew Reeson, CSIRO, Melbourne Australia Alec Stephenson, CSIRO, Melbourne Australia Thomas Sneddon, CSIRO, Melbourne Australia Zili Zhu, CSIRO, Melbourne Australia <i>“Some Insights into retirement planning and superannuation draw-down behaviour”</i>
11.35 – 12.05	Coffee Break

12.05 – 13.25	Parallel Session E.1: Financial Risk Management II Chair: Panos Poulialis, City, University of London, UK
T33: 12.05 – 12.25	Fei Liu, University of Liverpool, UK Athanasios A. Pantelous, University of Liverpool, UK

	<p>Hans-Jörg von Mettenheim, Acanto Research and Leibniz University of Hanover, Germany</p> <p><i>“Realized Volatility with High Frequency Data: Model, Analysis and Trading Systems”</i></p>
T34: 12.25 – 12.45	<p>Sergio Albeverio Universitaet Bonn, Germany</p> <p>Victoria Steblovskaya, Bentley University, USA</p> <p>Kai Wallbaum, Allianz Global Investors GmbH, Germany</p> <p><i>“Volatility Target Mechanism and Structured Investment Products with Capital Protection”</i></p>
T35: 12.45 – 13.05	<p>Diego Amaya, Wilfrid Laurier University, Canada</p> <p>Jean-François Bégin, British Columbia, Canada</p> <p>Geneviève Gauthier, HEC Montréal, Canada</p> <p><i>“Extracting Latent States from High Frequency Option Prices”</i></p>
T36: 13.05 – 13.25	<p>Yixiu Zhao, Swansea University, UK</p> <p>Vineet Upreti, Swansea University, UK</p> <p>Yuzhi Cai, Swansea University, UK</p> <p><i>“Forecasting Aggregate Stock Market Volatility by Quantile Regression”</i></p>
13.25 –15.00	Lunch break

12.05 – 13.25	<p>Parallel Session E.2: Financial Econometrics</p> <p>Chair: Athanasios Pantelous, University of Liverpool, UK</p>
T37: 12.05 – 12.25	<p>Ai Han, Chinese Academy of Sciences, China</p> <p>Yong Fang, Chinese Academy of Sciences, China</p> <p><i>“Multi-period Black-Litterman Model based on Scenario Tree”</i></p>
T38: 12.25 – 12.45	<p>Ai Han, Chinese Academy of Sciences, China</p> <p>Athanasios A. Pantelous, University of Liverpool, UK</p> <p><i>“Time-Varying cointegration of market indices under different exchange rates”</i></p>
T39: 12.45 – 13.05	<p>Stavros Stavroglou, University of Liverpool, UK</p> <p>Athanasios A. Pantelous, University of Liverpool, UK</p> <p>Konstantin Zuev, California Institute of Technology, USA</p>

	<i>“Dynamic Pattern Causality: Into the hidden nature of causal relationships”</i>
T40: 13.05 – 13.25	Hirbod Assa, University of Liverpool, UK Tianyuan Ni , University of Liverpool, UK <i>“Machine Learning Approach to Modeling Financial Derivatives”</i>
13.25 – 15.00	Lunch break

15.00 - 16.00	Chair: Geneviève Gauthier , HEC Montréal, Canada Invited Talk Hans-Jörg von Mettenheim , Acanto Research & Leibniz Universität, Hannover, Germany <i>“An Introduction to Quantitative Asset and Risk Management: How Simple Strategies Can Make You Better Returns?”</i>
16.00 - 16.30	coffee break
16.30 – 17.30	Parallel Session F.1: Financial Risk Management III Chair: Victoria Steblovskaya , Bentley University, USA
T41: 16.30 – 16.50	Thomas Noe, University of Oxford, UK Nir Vulkan , University of Oxford, UK <i>“Naked Aggression: Personality and portfolio manager performance”</i>
T42: 16.50 – 17.10	Gabriele Torri , University of Bergamo, Italy Rosella Giacometti, University of Bergamo, Italy Sandra Paterlini, EBS Universität für Wirtschaft und Recht, Germany <i>“Precision Matrix Regularization for Minimum Variance Portfolios”</i>
T43: 17.10 – 17.30	Antoine Noël , HEC Montréal, Canada <i>“Informed Trading across Strikes”</i>

16.00 - 16.30	coffee break
16.30 – 17.30	Parallel Session F.2: Derivatives Pricing and Hedging III Chair: Andrzej Palczewski , University of Warsaw, Poland

<p>T44: 16.30 – 16.50</p>	<p>Francesca Centrone, Universita degli Studi del Piemonte Orientale, Italy Emanuela Rosazza Gianin, Universita degli Studi Milano-Bicocca, Italy <i>“Capital Allocation a la Aumann and Shapley for non differentiable risk measures”</i></p>
<p>T45: 16.50 – 17.10</p>	<p>Maryam Hasannasab, University of Auckland, New Zealand Dimitrios Margaritis, University of Auckland, New Zealand <i>“Pricing Inputs and Outputs in Banking: A Profit Maximisation Approach”</i></p>
<p>T46: 17.10 – 17.30</p>	<p>Alexandra Dias, University of Leicester, UK Isaudin Ismail, University of Leicester, UK and University Tun Hussein Onn, Malaysia Aihua Zhang, University of Leicester, UK <i>“Risk aggregation using a mixture of copulas”</i></p>
<p>T47: 17.30 – 17.50</p>	<p>Svetlana Zenchenko, North-Caucasian Federal University, Russia Hassan Obeid, European Business School-Paris, France Kseniya Bagmet, Russian State Social University, Russia <i>“International standards of risk management in credit organization: Russian practice”</i></p>