

INTERNATIONAL CONFERENCE ON FINTECH & FINANCIAL DATA SCIENCE

3-5 September 2019, University College Dublin (UCD), Ireland

Programme

- **Location:** UCD Michael Smurfit Graduate School of Business, Carysfort Ave, Carrysfort, Blackrock, Co. Dublin – Smurfit Executive Development Suites
- **Registration** 11am - 2pm on 3rd September, and 8am – 9am on 4th September

Tuesday, 3rd of September

- 11:00am – 1:40pm** **Registration open**
- 1:40pm** **Opening Address**
By Prof. Juho Kanninen & Prof. Andreas Hoepner
- Session 1: Evidencing Risk, Chair: Theodor Cojoianu**
- 2:00pm** **Title:** How Does Diversity of Media Coverage Influence Firms' Risk Exposure?
Authors: Miha Torkar (Jozef Stefan Institute, Slovenia);
Ye Zeng (Aarhus University, Denmark)
Speaker: Ye Zeng
- 2:20pm** **Title:** Data-driven methods for risk management in trading activities
Authors: Ioannis Anagnostou (ING Bank & University of Amsterdam, Netherlands)
Speaker: Ioannis Anagnostou
- 2:40pm** **Title:** The systemic dimension of counterparty risk
(Chiara will also take few minutes to give a brief summary of her overall research within BigDataFinance programme (entitled "Systemic risk and financial networks"))
Authors: Chiara Perillo (University of Zurich, Switzerland);
Stefano Battiston (University of Zurich, Switzerland);
Sumit Sourabh (ING Bank & University of Amsterdam, Netherlands);
Drona Kandhai (ING Bank & University of Amsterdam, Netherlands)
Speaker: Chiara Perillo
- 3:00pm – 4:00pm** **Keynote 1**
Speaker: Hugh Christensen (BMLL Technologies)
Title: Enabling Value Extraction from Limit Order Book Data
- 4:00pm – 4:40pm** **Break, tea & coffee**
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Session 2: Data Science for Intangibles, Chair: Andreas Hoepner

- 4:40pm **Title:** Characterising financial markets from the event driven perspective
Authors: Miha Torkar and Dunja Mladenič (Jozef Stefan Institute, Slovenia)
Speaker: Miha Torkar
- 5:00pm **Title:** Central Bank Communications, Uncertainty and Risk Aversion in Global Equity Markets
Authors: Raja Shaikh (University of Durham, UK)
- 5:20pm **Title:** The Worse the Better?: Firm Scandal Reductions and Women in the Boardroom
Authors: Christopher Godfrey (University of Manchester, UK)
Andreas Hoepner (University College Dublin)
Ming-Tsung Lin (De Montfort University, UK)
Ser-Huang Poon (University of Manchester, UK)
Speaker: Christopher Godfrey (University of Manchester, UK)
- 5:40pm **Title:** Trading on Talent: Human Capital and Firm Performance
Authors: Anastassia Fedyk (Harvard University, U.S.A.);
James Hodson (Jozef Stefan Institute, Slovenia)
Speaker: Miha Torkar *on behalf of authors*
- 6:00pm – 8:00pm **Networking drinks and canapés**

Wednesday, 4th of September

Session 3: Methodologies, Chair: Stefano Battiston

- 9:00am **Title:** Intrinsic Time Directional-Change Methodology in Higher Dimensions
Authors: Vladimir Petrov (University of Zurich, Switzerland);
Anton Golub (flov technologies, Switzerland);
Richard Olsen (Lykke Corp., Switzerland)
Speaker: Vladimir Petrov
- 9:20am **Title:** Modelling Transaction Costs when Trades May Be Crowded: A Bayesian Network Approach
Authors: Marie Brière (Paris Dauphine University, PSL Research University, France & Amundi Asset Management, France);
Charles Albert Lehalle (Capital Fund Management, France & Imperial College London, UK);
Tamara Nefedova (Paris Dauphine University, PSL Research University, France);
Amine Raboun (Paris Dauphine University, PSL Research University, France & Euronext Paris, France)
Speaker: Amine Raboun
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9:40am	<p>Title: Classification and survival analysis for the dependence structure of financial time series using Random Forests and Functional Data Analysis</p> <p>Authors: Haiyan Liu (University of Leeds, UK & The Alan Turing Institute, UK); Ziyan Wang (University of Leeds, UK); Georgios Aivaliotis (University of Leeds, UK & The Alan Turing Institute, UK)</p> <p>Speaker: Georgios Aivaliotis</p>
10:00am	<p>Title: Financial ratios and stock returns reappraised through a topological data analysis lens</p> <p>Authors: Pawel Dlotko (Swansea University, UK); Wanling Qiu (University of Liverpool, UK); Simon Rudkin (Swansea University, UK)</p> <p>Speaker: Simon Rudkin</p>
10:20am	<p>Title: Mid-price Movement Prediction in Limit Order Books Using Feature Engineering and Machine Learning</p> <p>Authors: Adamantios Ntakaris (Tampere University, Finland); Giorgio Mirone (Danmarks Nationalbank, Denmark); Juho Kannianen (Tampere University, Finland); Moncef Gabbouj (Tampere University, Finland); Alexandros Iosifidis (Aarhus University, Denmark)</p> <p>Speaker: Adamantios Ntakaris</p>
10:40am – 11:00am	Break, tea & coffee
11:00am	<p>Keynote 2</p> <p>Speaker: Nikolaus Hautsch (Department of Statistics and Operations Research, University of Vienna, Austria)</p> <p>Title: Limits to Arbitrage in Markets with Stochastic Settlement Latency</p> <p>Session 4: Machine Learning, Chair: Kim Christensen</p>
12:00pm	<p>Title: Deep Execution in Decentralized FX Markets: A Reinforcement Learning Approach</p> <p>Authors: Olle Dahlen (ING Bank, Netherlands); Ioannis Anagnostou (ING Bank & University of Amsterdam, Netherlands); Georgios Pierris (ING Bank, Netherlands)</p> <p>Speaker: Georgios Pierris</p>
12:20pm	<p>Title: Assessing Deep Learning Models for the Forecasting of Non-Stationary Crude Oil Price Series</p> <p>Authors: Malika Bendeche (Dublin City University, Ireland); Mark Cummins (Dublin City University, Ireland); Patricia Endo (Universidade de Pernambuco, Brazil); Theo Lynn (Dublin City University, Ireland);</p>

Guto Santos (Universidade de Pernambuco, Brazil);

Iago Silva (Universidade de Pernambuco, Brazil);

Speaker: Mark Cummins

12:40pm

Title: Ascertaining price formation in cryptocurrency markets with Deep Learning

Authors: Fan Fang (University of Essex, UK)

Waichung Chung (University of Essex, UK)

Carmine Ventre (University of Essex, UK)

Leslie Kanthan (University College London, UK)

Lingbo Li (Turing Intelligence Technology Limited, UK)

Michail Basios (Turing Intelligence Technology Limited, UK)

Fan Wu (Turing Intelligence Technology Limited, UK)

Speaker: Fan Fang (University of Essex, UK)

1:00pm – 2:00pm

Lunch

Session 5: Regime and/or Volatility Modelling, Chair: Chris Godfrey

2:00pm

Title: Regime switching models for smart beta investing

Authors: Elizabeth Fons (AllianceBernstein & University of Manchester, UK);

Paula Dawson (AllianceBernstein, UK);

Jeffrey Yau (AllianceBernstein, U.S.A.);

Xiao-Jun Zeng and John Keane (University of Manchester, UK)

Speaker: Elizabeth Fons

2:20pm

Title: How Does Mutual Fund Flow Respond to Oil Market Volatility?

Authors: Bader J. Al Jawid (Loughborough University, UK)

Giovanni Calice (Loughborough University, UK)

Andrew Vivian (Loughborough University, UK)

Speaker: Andrew Vivian (Loughborough University, UK)

2:40pm

Title: Self-Evolving Neuro-Fuzzy System with Applications in High Frequency

Trading Predictions

Authors: Dongjiao Ge and Xiao-Jun Zeng (University of Manchester, UK)

Speaker: Dongjiao Ge

3:00pm

Title: Volatility modeling and limit order books analytics with high-frequency data

Authors: Martin Magris (Tampere University, Finland) ;

Adamantios Ntakaris (Tampere University, Finland);

Alexandros Iosifidis (Aarhus University, Denmark);

Dat Thanh Tran (Tampere University, Finland);

Esa Räsänen (Tampere University, Finland);

Jiyeong Kim (Tampere University, Finland);

Juho Kannianen (Tampere University, Finland);

Moncef Gabbouj (Tampere University, Finland)

Speaker: Martin Magris

3:20pm – 3:40pm	Break, tea & coffee
	Session 6: Empirical Finance, Chair: Qian Li
3:40pm	<p>Title: Investor Networks and their Clusters around Initial Public Offerings</p> <p>Authors: Margarita Baltakienė, Kęstutis Baltakys, Juho Kannianen (Tampere University, Finland); Dino Pedreschi (University of Pisa, Italy); Fabrizio Lillo (University of Bologna, Italy)</p> <p>Speaker: Kęstutis Baltakys</p>
4:00pm	<p>Title: The Anatomy of a Fee Change - Evidence from Cryptocurrency Markets</p> <p>Authors: Alexander Brauneis (University of Klagenfurt, Austria); Roland Mestel (University of Graz, Austria); Ryan Riordan (Queen's University, Canada); Erik Theissen (University of Mannheim, Germany)</p> <p>Speaker: Roland Mestel</p>
4:20pm	<p>Title: Asset Allocation with Aversion to Blackbox-ness of Machine Learning Models</p> <p>Authors: Yuji Sakurai (Federal Reserve Bank of Richmond, U.S.A); Keiichi Goshima (Waseda University, Japan)</p> <p>Speaker: Keiichi Goshima</p>
4:40pm	<p>Title: HHCAM: A household credit assessment model for financial stability</p> <p>Authors: Giorgio Mirone (Danmarks Nationalbank, Denmark); Simon Hajaj Ruby Harmat (Danmarks Nationalbank, Denmark)</p> <p>Speaker: Giorgio Mirone</p>
5:00pm	<p>Title: Is firm-level clean or dirty innovation valued more?</p> <p>Authors: Antoine Dechezlepretre (London School of Economics, UK); Cal Muckley and Parvati Neelakantan (University College Dublin, Ireland)</p> <p>Speaker: Parvati Neelakantan</p>
5:20pm	<p>Title: Corporate Social Irresponsibility and Portfolio Performance: A Global Perspective</p> <p>Authors: Maretno Harjoto (Pepperdine University, USA) Andreas Hoepner (University College Dublin) Qian Li (University of Cardiff, UK)</p> <p>Speaker: Qian Li (University of Cardiff, UK)</p>
5:40pm	The Close of Day 2
6:30-8:30pm	Conference Dinner

Thursday, 5th of September

9:00am	<p>Keynote 3 Speaker: Jyrki Piilo (Turku Centre for Quantum Physics, Department of and Astronomy, University of Turku, Finland) Title: Networks of investors in financial markets</p> <p>Session 7: Machine Learning, Chair: Juho Kanninen</p>
10:00am	<p>Title: The potential for machine learning in investment research: Evidence from risk assessments as predictors of share price volatility Authors: Alistair Haig and William Rees (The University of Edinburgh, UK) Speaker: Alistair Haig</p>
10:20	<p>Title: Distributed and real-time machine learning for financial data analysis Authors: Sergio Garcia-Vega; Xiao-Jun Zeng; John Keane (University of Manchester) Speaker: Sergio Garcia-Vega</p>
10:40am – 11:00am	<p>Break, tea & coffee</p>
11:00am	<p>Keynote 4 Speaker: Mark Andrew Chen (Georgia State University, U.S.A.) Title: Implications of FinTech Innovation for Firms and Human Capital</p> <p>Session 8: Risk Management of/with Machine Learning , Chair: Andrew Vivian</p>
12:00pm	<p>Title: Performance and Tail Risk of Optimal and Naïve Diversification Authors: Thomas Conlon and John Cotter (University College Dublin, Ireland); Enrique Salvador Arago (University Jaume I, Spain) Speaker: Enrique Salvador Arago</p>
12:20pm	<p>Title: Neural Networks and Value at Risk Authors: Alexander Arimond (Sociovestix Labs, Scotland, UK); Damian S. Borth (University of St. Gallen, Switzerland); Andreas G. F. Hoepner (University College Dublin, Ireland); Michael Klawunn and Stefan Weisheit (Warburg, Germany) Speaker: Andreas Hoepner</p>
12:40pm	<p>Title: Artificial Intelligence for Anti-Money Laundering - A Review and Extension Authors: Jingguang Han, Yuyun Huang and Sha Liu Speaker: Sha Liu</p>

1:00pm – 2:00pm	Lunch
2:00pm	Keynote 5 Speaker: Ser-huang Poon (Alliance Manchester Business School, University of Manchester, UK) Title: Responsible NLP for Modern Slavery
	Session 9: Frontiers in Finance, Innovation & Data Science, Chair: Simon Rudkin
3:00 pm	Title: Nonparametric correlation sign prediction from high-dimensional asset price correlation matrices Authors: Christian Bongiorno and Damien Challet (CentraleSupélec, France) Speaker: Christian Bongiorno
3:20pm	Title: Application of Cointegrated State Space models to Financial and Economic data Authors: Bernard Hanzon and Miaad Al-qurashi (University College Cork, Ireland) Speaker: Miaad Al-qurashi
3:40pm	Title: Financial market sentiment index Authors: Rytis Simanaitis (University of Manchester, UK) Speaker: Sergio Garcia-Vega <i>on behalf of author</i>
4:00pm	Closing Note by Prof. Xiao-Jun Zeng & Dr. Theodor Cojoianu
