
FMA2022

Workshop on Financial Modeling and Analysis

Period September 7 – 9, 2022
Venue Doshisha University
Organizer Motoh Tsujimura, Doshisha University
 Makoto Goto, Tokyo University of Science

September 7, Wednesday

- 12 : 55 – 13 : 00 Opening Address

Session 1 (Chair: Michi Nishihara, Osaka University)

- 13 : 00 – 13 : 40
A Dynamic Model of Repositioning with a Markov-Switching Regime
Katsumasa Nishide* (Hitotsubashi University) and Takeshi Ebina (Meiji University)
- 13 : 40 – 14 : 20
An Optimal Policy of Lockdown Periods in Pandemic Based on the Stochastic SIR Model with Time Delay
Kimitoshi Sato* (Kanagawa University), Katsushige Sawaki

Session 2 (Chair: Katsumasa Nishide, Hitotsubashi University)

- 14 : 35 – 15 : 15
Optimal capital structure of a firm that receives earnings with a lower reflecting barrier
Michi Nishihara* (Osaka University) and Takashi Shibata (Tokyo Metropolitan University)
- 15 : 15 – 15 : 55
Sustainable investments with agency conflicts
Yuan Tian (Ryukoku University)

Session 3 (Chair: Yuan Tian, Ryukoku University)

- 16 : 10 – 16 : 50
A Note on ESG Multifactor Asset Pricing Models
Hiroshi Ishijima* (Chuo University) and Akira Maeda (The University of Tokyo)
- 16 : 50 – 17 : 30
Non-standard jump processes arising in environmental project planning
Hidekazu Yoshioka* (Shimane University) and Motoh Tsujimura (Doshisha University)

September 8, Thursday

Session 4 (Chair: Haejun Jeon, Tokyo University of Science)

- 10 : 00 – 10 : 40
Risk management of Commercial Banks caused by CBDC
Uratani Tadashi (MIC.9 Co./Hosei University)
- 10 : 40 – 11 : 20
Analysis of credit cycle movement by credit event intensity model
Jun Hironaka (Nomura Asset Management Co., Ltd./University of Tsukuba)

Session 5 (Chair: Jun Hironaka, Nomura Asset Management Co., Ltd./University of Tsukuba)

- 13 : 00 – 13 : 40
Labor flexibility and investment
Haejun Jeon* (Tokyo University of Science), Chuanqian Zhang (William Paterson University), and Xue Cui (Shenzhen University)
- 13 : 40 – 14 : 20
Investment, financing, liquidation, and asymmetric information
Takashi Shibata* (Tokyo Metropolitan University) and Michi Nishihara (Osaka University)

Session 6 (Chair: Takashi Shibata, Tokyo Metropolitan University)

- 14 : 35 – 15 : 15
Deep Learning Schemes for high-dimensional nonlinear PDEs with Wiener-Chaos Expansion and Application for Mean-Field type models in Finance
Kangyong Liu* (Waseda University) and Hiroshi Toyozumi (Waseda University)
- 15 : 15 – 15 : 55
Valuation of Performance-Vesting Employee Stock Options
SiNan Lyu (KYOCERA Communication Systems Co., Ltd.), Masamitsu Ohnishi* (Yamato University/Osaka University), and Nene Tanaka (Ernst & Young Shinnihon LLC)

September 9, Friday

Session 7 (Makoto Goto, Tokyo University of Science)

- 10 : 00 – 10 : 40
Execution game in a Markovian environment
Masamitsu Ohnishi (Yamato University) and Makoto Shimozhimizu* (Tokyo Metropolitan University)
- 10 : 40 – 11 : 20
Execution performance under specific price models
Seiya kuno (Doshisha University)

Session 8 (Chair: Seiya kuno, Doshisha University)

- 13 : 00 – 13 : 40
Spillover effects between commodity markets, financial markets, and the real economy
Hiroyuki Okawa (Kobe University)
- 13 : 40 – 14 : 20
Assessing the value of a thermal power plant considering power market and capacity mechanism
Motoh Tsujimura *(Doshisha University), Makoto Goto (Tokyo University of Science), Ryuta Takashima (Tokyo University of Science), and Hidekazu Yoshioka (Shimane University)
- 14 : 20 – 14 : 25 Closing Address