

4th World Congress on Social Simulation

1st Asia-Pacific Econophysics Conference

September 4-7, 2012, National Chengchi University, Taiwan

General Building of Colleges, North Wing (綜合院館北棟)

Conference Schedule & Rooms

Tuesday, September 4, 2012

8:10 a.m. – 5:00 p.m.	1 st Floor Lobby	Registration
9:00 a.m. – 11:00 a.m.	1 st Floor Room #270113 1 st Floor Room #270114	Tutorial (1-A) Tutorial (1-B)
11:00 a.m. – 12:40 p.m.	CiSian Building, 3 rd Floor	Lunch
12:40 p.m. – 2:40 p.m.	1 st Floor Room #270113 1 st Floor Room #270114 1 st Floor Room #270104	Tutorial (2-A) Tutorial (2-B) Turing Memorial Session #1
2:40 p.m. – 3:00 p.m.	1 st Floor Lobby	Coffee break
3:00 p.m. – 5:00 p.m.	1 st Floor Room #270113 1 st Floor Room #270114 1 st Floor Room #270104	Tutorial (3-A) Tutorial (3-B) Turing Memorial Session #2
5:00 p.m. – 7:00 p.m.	Administration Building	Reception

Wednesday, September 5, 2012

8:10 a.m. – 4:30 p.m.	1 st Floor Lobby	Registration
8:40 a.m. – 9:00 a.m.	1 st Floor Room #270113	Opening Ceremony Welcome Speech: <i>Se-Hwa Wu</i> , <i>President, National Chengchi University</i> Welcome Speech: <i>Yih-Chyi Chuang</i> , <i>Dean of College of Social Sciences, National Chengchi University</i>
9:00 a.m. – 10:00 a.m.	1 st Floor Room #270113	Keynote Speech: <i>Thomas Lux</i> , <i>University of Kiel</i>
10:00 a.m. – 10:30 a.m.	1 st Floor Lobby	Coffee Break
10:30 a.m. – 12:10 p.m.	1 st Floor Room #270113 1 st Floor Room #270114	Workshop (W1) Special Session (S1)

	1 st Floor Room #270103 1 st Floor Room #270104 2 st Floor Room #270204 2 st Floor Room #270205	Parallel Session (A1) Parallel Session (A2) Parallel Session (APEC-A1) Parallel Session (APEC-A2)
12:10 p.m. – 1:50 p.m.		Lunch
1:50 p.m. – 3:30 p.m.	1 st Floor Room #270113 1 st Floor Room #270114 1 st Floor Room #270103 1 st Floor Room #270104 2 st Floor Room #270204 2 st Floor Room #270205 2 st Floor Room #270203	Workshop (W2) Special Session (S2) Special Session (S3) Parallel Session (B1) Parallel Session (APEC-B1) Parallel Session (APEC-B2) Parallel Session (APEC-B3)
3:30 p.m. – 4:00 p.m.	1 st Floor Lobby	Coffee break
4:00 p.m. – 5:00 p.m.	1 st Floor Room #270113	Keynote Speech: <i>Wei Zhang, Tianjin University</i>
6:00 p.m. – 9:00 p.m.	Shin Yeh Restaurant Xinyi Branch	Banquet

Thursday, September 6, 2012

8:10 a.m. – 4:30 p.m.	1 st Floor Lobby	Registration
9:00 a.m. – 10:00 a.m.	1 st Floor Room #270113	Keynote Speech: <i>Vela Vellupillai, University of Trento</i>
10:00 a.m. – 10:30 a.m.	1 st Floor Lobby	Coffee break
10:30 a.m. – 12:10 p.m.	1 st Floor Room #270113 1 st Floor Room #270114 1 st Floor Room #270103 1 st Floor Room #270104 2 st Floor Room #270204 2 st Floor Room #270205	Workshop (W3) Special Session (S4) Special Session (S5) Parallel Session (C1) Parallel Session (APEC-C1) Parallel Session (APEC-C2)
12:10 p.m. – 1:50 p.m.		Lunch
1:50 p.m. – 3:30 p.m.	1 st Floor Room #270113 1 st Floor Room #270114 1 st Floor Room #270104 2 st Floor Room #270204 2 st Floor Room #270205	Special Session (S6) Parallel Session (D1) Parallel Session (D2) Parallel Session (APEC-D1) Parallel Session (APEC-D2)
3:30 p.m. – 4:00 p.m.	1 st Floor Lobby	Coffee break
4:00 p.m. – 5:00 p.m.	1 st Floor Room #270113	Keynote Speech: <i>William Griffin, Arizona State University</i>

5:00 p.m. – 5:20 p.m.	1 st Floor Room #270113	APEC Closing Ceremony Closing Speech: <i>Seunghwan Kim</i> , <i>Asia-Pacific Center for Theoretical Physics</i>
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Friday, September 7, 2012

8:30 a.m. – 10:30 a.m.	1 st Floor Lobby	Registration
9:00 a.m. – 10:00 a.m.	1 st Floor Room #270113	Keynote Speech: <i>Alan Kirman</i> , <i>University of Aix-Marseille III</i>
10:00 a.m. – 10:30 a.m.	1 st Floor Lobby	Coffee break
10:30 a.m. – 12:10 p.m.	1 st Floor Room #270113 1 st Floor Room #270114 1 st Floor Room #270103 1 st Floor Room #270104 1 st Floor Room #270102	Special Session (S7) Special Session (S8) Parallel Session (E1) Parallel Session (E2) Parallel Session (E3)
12:10 p.m. – 1:50 p.m.	CiSian Building, 3 rd Floor	Lunch
2:00 p.m. –	Bus at CiSian Building	Sightseeing tour

List of Tutorials:

Tutorials	Instructors
1-A Categorical Analysis of Social Processes (Conceptual Introduction)	David L. Sallach
1-B Evolutionary Foundations for Economic Science: How Can Scientists Study Evolving Economic Doctrines from the Last Centuries?	Yuji Aruka
2-A Categorical Analysis of Social Processes (Application)	David L. Sallach
2-B Increased Transparency and Effective Communication through the Design of Simulation Experiments	Iris Lorscheid
3-A SOARS Tutorial	Hiroshi Deguchi and Manabu Ichikawa
3-B Simulation Models on Systemic Risks	Akira Namatame

List of Workshops and Special Sessions:

Turing memorial sessions	Organizers
#1 Turing's Economics	K. Vela Velupillai

#2	Artificial Intelligence in Social Computing	Chao-Lin Liu
Workshops		Organizers
W1 , W2 , W3	Social Media and Simulation in Social Informatics, sponsored by Society of Socio-Informatics	Isamu Okada
Special Sessions		Organizers
S1-S2	Behavioral and Cognitive Bases for Agent-Based Models	Nobuyuki Hanaki and Takashi Yamada
S3	Mathematical Foundations of Computational Social Science	David Sallach
S4 , S6 , and S7	Applications of Social Simulation in Politics and Public Spheres	Jie-Shin Lin and Frank C.S. Liu
S5	Applications of System Dynamics in Social Systems Research	Jian-Hung Chen
S8	Social Simulations on Social Networks and Social Capital	Ray-May Hsung

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Complete list of all sessions

Turing memorial session #1

Session Name: “Turing’s Economics”

Session Chair: K. Vela Velupillai, University of Trento

Date: September 4, 2012

Time: 12:40 p.m. – 2:40 p.m.

Location: 1st Floor Room #270104

Turing’s Economics

By K. Vela Velupillai, University of Trento

Alan Turing: Computing in an Incomputable World

By S. Barry Cooper, University of Leeds

The Relevance of the Halting Problem for Economics Technological progress, R& D and Growth

By Stefano Zambelli, University of Trento

Problem Solving: From Turing to Simon

By Ying-Fang (Selda) Kao, University of Trento

Turing vs. Hopf Bifurcation - Applications in Endogenous Macrodynamics

By V. Ragupathy, University of Trento

Turing memorial session #2

Session Name: “Artificial Intelligence in Social Computing”

Session Chair: Chao-Lin Liu

Date: September 4, 2012

Time: 3:00 p.m. – 5:00 p.m.

Location: 1st Floor Room #270104

Simulation of Collective Social Behaviors

By Tsai-Yen Li, National Chengchi University

From Data Curation to Social Mining and Interactive Visualization

By Jyi-Shane Liu, National Chengchi University

Sentiment and Trend Analyses for Financial and Historical Documents

By Chao-Lin Liu, National Chengchi University

Privacy-Preserving Release of Social Networks

By Chih-Hua Tai, National Taipei University

Workshop: W1

“Social Media and Simulation in Social Informatics, sponsored by Society of Socio-Informatics”

Session Name: "Social Media and Community"

Session Chair: Hitoshi Yamamoto, Rissho University

Date: September 5, 2012

Time: 10:30 a.m. – 12:10 p.m.

Location: 1st Floor Room #270113

Introduction to Simulation Study on Social Media

By Isamu Okada, Soka University

Practical Use of the Local SNS in the Event of an Earthquake Disaster

By Yuki Ogawa, National Institute of Advanced Industrial Science and Technology;
Hitoshi Yamamoto, Rissho University; Shintaro Goto, Rissho University; Hiroshi
Wasaki, Kwansai Gakuin University; Shohei Gomi, Iwate University

*SIR-based Information Diffusion Model of False Rumor and its Diffusion Prevention
Strategy for Twitter*

By Satoshi Kurihara, Osaka University; Takashi Shirai, Osaka University; Fujio
Toriumi, Tokyo University; Takeshi Sakaki, Tokyo University; Kosuke
Shinoda, Aizu University; Kazuhiro Kazama, NTT Network Innovation Labs;

Itsuki Noda, National Institute of Advanced Industrial Science and Technology

Cyclical Pattern of Rise and Fall of Online Community due to Troll

By Yutaka Nakai, Shibaura Institute of Technology

Extracting Geo-Social Information based on Geo-Tagged Social Media

By Kazunari Ishida, Hiroshima Institute of Technology

Session: S1

Special Session: “Behavioral and Cognitive Bases for Agent-Based Models”

Session name: Games

Session Chair: Nobuyuki Hanaki, Aix-Marseille University, and Takashi Yamada,
Tokyo Institute of Technology

Date: September 5, 2012

Time: 10:30 a.m. – 12:10 p.m.

Location: 1st Floor Room #270114

*Selection of Opponents in the Prisoner's Dilemma on Dynamic Networks --- an
Experimental Approach*

By Hiroto Yonenoh, University of Tsukuba; Eizo Akiyama, University of Tsukuba

Heterogeneity in Learning Rules

By Nobuyuki Hanaki, Aix-Marseille University; Juliette Rouchier, Aix-Marseille
University

*A Computational Study of Rule Learning in "Do-It-Yourself Lottery" with Aggregate
Information*

By Takashi Yamada, Tokyo Institute of Technology; Takao Terano, Tokyo Institute
of Technology

Session: A1

Session Chair: Erika Frydenlund, Old Dominion University

Date: September 5, 2012

Time: 10:30 a.m. – 12:10 p.m.

Location: 1st Floor Room #270103

Bullying Phenomena Reproduced by an Artificial School Class Model

By Yoshinobu Maeda, Niigata University; Kentaro Tani, Niigata University; Nao Ito, Toyama National College of Technology; Kosuke Kato, Hiroshima Institute of Technology

Semi-Artificial Models of Populations: Connecting Demography with Agent-Based Modelling

By Eric Silverman, University of Southampton; Jakub Bijak, University of Southampton; Jason Noble, University of Southampton; Viet Cao, University of Southampton; Jason Hilton, University of Southampton

Emergence of Peace due to TFT Strategy to Observe Limited Number of Friends with Observation Cost

By Noriyasu Atsuta, Shibaura Institute of Technology; Yutaka Nakai, Shibaura Institute of Technology, Shibaura Institute of Technology; Fumiaki Kawachi, Shibaura Institute of Technology

Women's Fertility Choices and Agency; Examining Japan's Population Decline through Agent-Based Modeling

By Erika Frydenlund, Old Dominion University

Session: A2

Session Chair: Nicholas Geard, University of Melbourne

Date: September 5, 2012

Time: 10:30 a.m. – 12:10 p.m.

Location: 1st Floor Room #270104

Agent-based Simulation for Nosocomial Influenza Infection

By D. Minh Nguyen, Tokyo Institute of Technology; Hiroshi Deguchi, Tokyo Institute of Technology; Manabu Ichikawa, Tokyo Institute of Technology

Transmission of Distress in a Bank Credit Network

By Yoshiharu Maeno, NEC Corporation; Satoshi Morinaga, NEC Corporation; Hirokazu Matsushima, IISE; Kenichi Amagai, IISE

Role of Community in User Innovation Generation and Diffusion

By Daichi Yoshida, Waseda University; Jyunichi Miyazawa, Waseda University;

Shingo Takahashi, Waseda University

Modelling Household Dynamics for Epidemiological Simulation

By Nicholas Geard, University of Melbourne; Alan Dorin, Monash University;
Kevin B. Korb, Monash University; James McCaw, University of Melbourne;
Jodie McVernon, University of Melbourne

Session: APEC-A1

Session Chair: Wei-Xing Zhou, East China University of Science and Technology

Date: September 5, 2012

Time: 10:30 AM – 12:10 PM

Location: 2st Floor Room #270204

Link Prediction on Complex Network using Random Deletion

By Min-Woo Ahn, POSTECH; Woo-Sung Jung, POSTECH

Role of Inter-Community Links in Human Behavior Spread

By Hawoong Jeong, Korea Advanced Institute of Science and Technology

Non-Gaussianity Driven by Memory

By Jongwook Kim, Asia-Pacific Center for Theoretical Physics

Systemic risk and spatiotemporal dynamics of the US housing market

By Wei-Xing Zhou, East China University of Science and Technology

Session: APEC-A2

Session Chair: Hong-Gang Li, Beijing Normal University

Date: September 5, 2012

Time: 10:30 AM – 12:10 PM

Location: 2st Floor Room #270205

Investor's Behavior and Stock Market Bubble under Asymmetric Information

By Yong-Hong Jin, East-China University of Science and Technology

Portfolio Optimization of the Korean Stock Market Using Clustering Algorithms

By Hongseok Kim, POSTECH

Non-Stationary Volatility with Highly Anti-Persistent Increments: An Alternative Paradigm in

Volatility Modeling?

By Ladislav Kristoufek, Charles University in Prague

Buying on Margin, Short Sale and Market Performance

By Hong-Gang Li, Beijing Normal University; Ting Zhang, Beijing Normal University

Workshop: W2

“Social Media and Simulation in Social Informatics, sponsored by Society of Socio-Informatics”

Session Name: "Social Media and Market"

Session Chair: Hirohiko Suwa, University of Electro-Communications

Date: September 5, 2012

Time: 1:50 p.m. – 3:30 p.m.

Location: 1st Floor Room #270113

Challenges Regarding Translation in Social Media and Our Proposals

By Shinichiro Miyazawa, Shumei University; Mitsuyuki Miyazaki, Shumei University; Isamu Okada, Soka University; Terumasa Ehara, Yamanashi Eiwa College; Shoichi Yokoyama, Yamagata University

Expectations and Concerns in an Enterprise SNS

By Hitoshi Yamamoto, Rissho University; Hirohiko Suwa, University of Electro-Communications

How Consumer-Generated Advertising Works: Empirical Agent-Based Simulation

By Makoto Mizuno, Meiji University

Analyzing Influence of Information Gap on Prediction Market Mechanism using Artificial Markets

By Fujio Toriumi, The University of Tokyo

Session: S2

Special Session: “Behavioral and Cognitive Bases for Agent-Based Models”

Session name: Financial markets

Session Chair: Nobuyuki Hanaki, Aix-Marseille University, and Takashi Yamada,

Tokyo Institute of Technology

Date: September 5, 2012

Time: 1:50 p.m. – 3:30 p.m.

Location: 1st Floor Room #270114

The impact of communication on long-run wealth distribution in an order-driven market

By Hongliang Zhu, Nanjing University; Xin-dan Li, Nanjing University; Zheng-wei Wu, Nanjing University; Ying Chen, Nanjing University

Analyzing the Validity of Passive Investment Strategies under Financial Constraints

By Hiroshi Takahashi, Keio University

Exploring the Degree of Market Inefficiency by the Role of Forecasting Accuracy in Survivability

By Ya-Chi Huang, Lunghwa University of Science and Technology

Individual Irrationality and Lack of Common Knowledge of Rationality in Experimental Asset Markets

By Eizo Akiyama, University of Tsukuba; Nobuyuki Hanaki, Aix-Marseille University; Ryuichiro Ishikawa, Aix-Marseille University

Session: S3

Special Session: “Mathematical Foundations of Computational Social Science”

Session Chair: David Sallach, Argonne National Laboratory and the University of Chicago

Discussant: Takao Terano, Tokyo Institute of Technology

Date: September 5, 2012

Time: 1:50 p.m. – 3:30 p.m.

Location: 1st Floor Room #270103

Categorical Social Science: Theory, Methodology and Design

By David L. Sallach, Argonne National Laboratory and the University of Chicago

A Formal Theory of Politogenesis for Agent Simulation of Social Complexity Origins

By Claudio Cioffi-Revilla, George Mason University

A Theoretical Foundation for Computational Agent-based Modeling

By Michael North, Argonne National Laboratory

Session: B1

Session Chair: Jiri Skuhrovec, Charles University

Date: September 5, 2012

Time: 1:50 p.m. – 3:30 p.m.

Location: 1st Floor Room #270104

Conduct and Cooperation between Firms: A Study Through the Prisoner's Dilemma and the Agent-Based Simulation

By Edmilson Moraes, Centro Universitário da FEI

Influence of Corporation Tax Rate on GDP in an Agent-Based Artificial Economic System

By Shigeaki Ogibayashi, Chiba Institute of Technology; Kousei Takashima, Chiba Institute of Technology

Least Susceptible Networks to Cascade Failures

By Akira Namatame, National Defense Academy; Takanori Komatsu, National Defense Academy

Exponential and Power Laws in Public Procurement Markets

By Jiri Skuhrovec, Charles University; Ladislav Kristoufek, Charles

Session: APEC-B1

Session Chair: Wen-Jong Ma, National Chengchi University

Date: September 5, 2012

Time: 1:50 PM – 3:30 PM

Location: 2st Floor Room #270204

Probabilistic Labor Markets: From a Toy Model to Data-Driven Complex Systems

By He Chen, Hokkaido University

Evolutionary Game Model of Market Cycles

By Wei-Te Yu, National Central University

Fama-French Model Based on Wavelet Analysis

By Jung-You, Chosun University; Ho-yong Kim, Chosun University; Gabjin Oh, Chosun University

A Hydrodynamic Scenario for the Fluctuations in Collections of Stocks

By Wen-Jong Ma, National Chengchi University

Session: APEC-B2

Session Chair: Zhan-Gang Han, Beijing Normal University

Date: September 5, 2012

Time: 1:50 PM – 3:30 PM

Location: 2st Floor Room #270205

Information Dependence in an Agent-Based Duopolistic Market Trading Model

By Tat-Shing Choi, The Hong Kong University of Science and Technology

Agent-Based Analysis of the Product-Price Collapse in Online Markets

By Takayuki Mizuno, University of Tsukuba; Tsutomu Watanabe, The University of Tokyo

Dependence of Inter-Agent Information Exchange on the Election Model

By Kyuseong Lim, Korea Advanced Institute of Science and Technology

Economic Aggregation with Agent Modeling Revisit

By Zhan-Gang Han, Beijing Normal University

Session: APEC-B3

Session Chair: Sudhir Jain

Date: September 5, 2012

Time: 1:50 PM – 3:30 PM

Location: 2st Floor Room #270203

The Solution of Multi-Fractal Models

By David Saakian, Yerevan Physics Institute and Institute of Physics, Academia Sinica

The Effects of Product Market Uncertainty on Optimal Financial Decisions

By Po-Yuan Chen, Jinwen University of Science and Technology

Mental Goals on Decision Making

By Wei Pan, National Chung Cheng University

Measures of Inequality in UK Property Prices

By Sudhir Jain, Aston University

Workshop: W3

“Social Media and Simulation in Social Informatics, sponsored by Society of Socio-Informatics”

Session Name: "General Topics in Social Informatics"

Session Chair: Isamu Okada, Soka University

Date: September 6, 2012

Time: 10:30 a.m. – 12:10 p.m.

Location: 1st Floor Room #270113

Social Media in Auto-Genesis System

By Toshizumi Ohta, University of Electro-Communications; Hirohiko Suwa, University of Electro-Communications; Yuki Ogawa, Advanced Industrial Science and Technology, Namie Kato, JMA Research Institute, Inc.

Behavior Model of Information Security

By Hirohiko Suwa, University of Electro-Communications; Satoshi Hara, University of Electro-Communications; Yoshiaki Seki, NTT Secure Platform Laboratories

Analysis of IT Security Implementation in an Organization: Using IT-Security Implementation Model based on Game Theory

By Masashi Sugiura, NEC Corporation; Hirohiko Suwa, University of Electro-Communications; Toshizumi Ohta, University of Electro-Communications

Stock BBS Factor Model using Principal Component Analysis

By Eiichi Umehara, Tokyo City University; Hirohiko Suwa, University of Electro-Communications; Toshizumi Ohta, University of Electro-Communications

Session: S4

Special Session: “Applications of Social Simulation in Politics and Public Spheres”

Session Chair: Frank C.S. Liu, National Sun Yet-San University

Date: September 6, 2012

Time: 10:30 a.m. – 12:10 p.m.

Location: 1st Floor Room #270114

Keynote Talk:

On the Importance of Frailty in Social Science Theory and Other Lessons of Agent-Based Modeling

By Paul Edward Johnson, University of Kansas

Shall We? The Declaration of the State of Emergency with the Help of the Fuzzy Multi-Criteria Decision Making (FMCDM) Approach

By Michael C. S. Chang, I-Shou University; [Antoni](#) Hong-Cheng Liu, I-Shou University; Tien-Chin Wang, National Kaohsiung University

The Decline of the Politically Informed Electorate and the Survival of Political Disagreement within Communication Networks

By Frank C.S. Liu, National Sun Yet-San University

Session: S5

Special Session: “Applications of System Dynamics in Social Systems Research”

Session Chair: Jian-Hung Chen, National Chi Nan University

Date: September 6, 2012

Time: 10:30 a.m. – 12:10 p.m.

Location: 1st Floor Room #270103

Exploring the Development of the DRAM Industry in Taiwan Using System Dynamic Approach

By Chung-Shu Liu, Tunghai University; Chih-Tung Hsiao, Tunghai University

Balancing the Commercialization and Culture Image Recreation - Case of the Bunun Tribe

By Jian-Hung Chen, National Chi Nan University; Jian-Jing Li, National Chi Nan University

Organizational Evolution of Contemporary Museums- a System Dynamics Approach

By Yu-Zhen Lin, National Chi Nan University; Jian-Jing Li, National Chi Nan University

The new form of mixed economy with rationing: agent - based approach

By Valery Makarov and Albert Bakhtizin, Central Economics and Mathematics Institute of Russian Academy of Sciences

Session: C1

Session Chair: William G. Kennedy

Date: September 6, 2012

Time: 10:30 a.m. – 12:10 p.m.

Location: 1st Floor Room #270104

Social Coordination: Toward a Category-Theoretical Synthesis

By David L. Sallach, Argonne National Laboratory and the University of Chicago

Socio-Cognitive Influences on Social Stratification

By Elpida Tzafestas, University of Athens

Contributions of Agent-Based Social Simulation to Communication among Stakeholders

By Kotaro Ohori, Fujitsu Laboratories Ltd; Shohei Yamane, Fujitsu Laboratories Ltd; Noriyuki Kobayashi, Fujitsu Laboratories Ltd; Akihiko Obata, Fujitsu Laboratories Ltd; Shingo Takahashi, Waseda University

Towards Validating a Model of Households and Societies of East Africa

By William G. Kennedy, Chenna Reddy Cotla, Tim Gulden, Mark Coletti, and Claudio Cioffi-Revilla, George Mason University

Session: APEC-C1

Session Chair: Gabjin Oh, Chosun University

Date: September 6, 2012

Time: 10:30 AM – 12:10 PM

Location: 2st Floor Room #270204

Study on Network Structure in Korean Stock Market

By Ho-Yong Kim, Chosun University; Gabjin Oh, Chosun University

On the Information Flow between Industry Sectors

By Gabjin Oh, Chosun University

Exogenous Shocks on Supplier-Customer Network at Nation-Wide Sale in Japan

By Yoshi Fujiwara, University of Hyogo

Stock Trading Networks

By Zhi-Qiang Jiang, East China University of Science and Technology; Wei-Xing Zhou, East China University of Science and Technology

Session: APEC-C2

Session Chair: You-Gui Wang, Beijing Normal University

Date: September 6, 2012

Time: 10:30 AM – 12:10 PM

Location: 2st Floor Room #270205

Long Memory and Multifractality of Return and Realised Volatility under a Stable Distribution

By Han-Dong Li, Beijing Normal University; Meilan Cui, Beijing Normal University

Cluster Fusion-Fission Dynamics in the SGX

By Siew Ann Cheong, Nanyang Technological University; Boon Kin Teh, Nanyang Technological University

Time-Clustering Behavior of Sharp Fluctuation Sequences in Chinese Stock Markets

By Ying Yuan, Northeastern University; Xin-tian Zhuang, Northeastern University; Zhi-ying Liu, Northeastern University; Wei-qiang Huang, Northeastern University;

Debt Crisis and Financial Instability

By You-Gui Wang, Beijing Normal University; Zhou Guobin, Beijing Normal University

Session: S6

Special Session: “Applications of Social Simulation in Politics and Public Spheres”

Session Chair: Jie-Shin Lin, I-Shou University

Date: September 6, 2012

Time: 1:50 p.m. – 3:30 p.m.

Location: 1st Floor Room #270113

Individual Discrete Choice Events as a Foundation for the Study on Aggregate Continuous Social Outcomes: A Simulation Study of Impact Analysis in the Context of International Migration Impact on Internal Migration in Taiwan

By Ji-Ping Lin, Academia Sinica

Using Fussy Analytic Network Process to Explore the Factors of Performance Housing Refurbishment in Taiwan

By Peddy Pi Ying Lai, National Pingtung Institute of Commerce

Macroeconomic Forecasting with Agent-Based Models. The Prediction and Simulation of the Impact of Public Policies on SMEs

By Federico Pablo, IAES - University of Alcalá; Antonio García-Tabuenca, IAES - University of Alcalá; Juan Luis Santos, IAES - University of Alcalá; María Teresa Gallo, IAES - University of Alcalá; María; Teresa del Val, IAES - University of Alcalá; Tomás Mancha, IAES - University of Alcalá

Political Science Research from a Complexity Perspective

By Jie-Shin Lin, I-Shou University; Hong-Cheng Liu, I-Shou University; Miin-Shyan Bair, I-Shou University

Session: D1

Session Chair: Masatoshi Murakami, Kansai University

Date: September 6, 2012

Time: 1:50 p.m. – 3:30 p.m.

Location: 1st Floor Room #270114

Hybrid Approach of Agent-Based and Gaming Simulations for Stakeholder Accreditation

By Yusuke Goto, Iwate Prefectural University; Yosuke Takizawa, Waseda University; Shingo Takahashi, Waseda University

Game Theory and Pragmatics: An Evolutionary Approach

By Ryousuke Nori, Future University Hakodate; Toshiji Kawagoe, Future University Hakodate

An Agent-based Model of Social Norm and Cooperation

By Tongkui Yu, Southwest University

An Agent-Based Approach for Patient Satisfaction and Collateral Health Effect

By Masatoshi Murakami, Kansai University

Session: D2

Session Chair: Jason Noble, University of Southampton

Date: September 6, 2012

Time: 1:50 p.m. – 3:30 p.m.

Location: 1st Floor Room #270104

How to Effectively Analyze and Communicate Complex Relationships between Variables? – A Causal Network Tool based on Structural Equation Modeling for Simulation Model Analysis

By Iris Lorscheid, Hamburg University of Technology

Supply Chain Management Computational Experiment Software Platform Design And Implement

By Ruiyi Chen, Nanjing University; Sheng Zhaohan, Nanjing University

Domain-Model-Based Comparative Simulation Studies: Can We Make Headway?

By Jason Noble, University of Southampton; Stuart Rossiter, University of Southampton; Keith R.W. Bell, University of Strathclyde

Multi-Dimensional Modelling of the Religious Affiliation Preference using Type 2 Neuro-Fuzzy System and Distributed Agency

By Manuel Castañón-Puga, Baja California Autonomous University;

Ramiro Jaimes, Baja California Autonomous University; Juan Ram_on Castro, Baja California Autonomous University; Eugenio D. Suarez, Trinity University; Carelia Gaxiola-Pacheco, Baja California Autonomous University; Dora-Luz Flores, Baja California Autonomous University

Session: APEC-D1

Session Chair: Tao Zhang, University of Birmingham

Date: September 6, 2012

Time: 1:50 PM – 3:30 PM

Location: 2st Floor Room #270204

Phase Transition in Investment Failure Risk Landscape

By Yoshiharu Maeno, NEC Corporation

Dynamical and Statistical Properties of Microstructure in KOSPI Market

By Kyubin Yim, POSTECH; Gabjin Oh, Chosun University; Seunghwan Kim, POSTECH

Collective Behavior of Stock Prices as a Precursor to Market

By Junichi Maskawa, Seijo University

Simulating User Learning in Authoritative Technology Adoption: A Case of Smart Meter Deployment in Leeds

By Tao Zhang, University of Nottingham; Peer-Olaf Siebers, University of Nottingham; Uwe Aickelin, University of Nottingham

Session: APEC-D2

Session Chair: John Francis Diaz, Chung Yuan Christian University

Date: September 6, 2012

Time: 1:50 PM – 3:30 PM

Location: 2st Floor Room #270205

Advantageous and Disadvantageous Agent Groups in a Trading Network

By Yat-Hong Lam, The Hong Kong University; Kwok Yee Michael Wong, The Hong Kong University

Portfolio Selection Using Complex Network

By Hye-won Mun, Chosun University; Gabjin Oh, Chosun University

Statistical Analysis of Individual Companies Listed on S&P500 Index by Using Google Trend

By Youngran Youm, Chosun University; Gabjin Oh, Chosun University

Testing for Long-Memory and Chaos Effects in the Returns of Currency Exchange-traded Notes (ETNs)

By John Francis, Chung Yuan Christian University; Diaz and Jo-Hui Chen, Chung Yuan Christian University

Chaotic Properties of the Philippine Stock Exchange Index (PSEi)

By John Francis Diaz, Chung Yuan Christian University; Jo-Hui Chen, Chung Yuan Christian University

Session: S7

Special Session: “Applications of Social Simulation in Politics and Public Spheres”

Session Chairs: Hsing Luh and Yuo-Hsien Shiau, National Chengchi University

Date: September 7, 2012

Time: 10:30a.m. – 12:10 p.m.

Location: 1st Floor Room #270113

Importance of the Structure of Social Network in Binary Voting Model

By Zhichao Xu, Hong Kong University of Science and Technology; Degang Wu, Hong Kong University of Science and Technology; Kwok Yip Szeto, Hong Kong University of Science and Technology

Three-State Opinion Formation Model on Adaptive Networks

By Degang Wu, Hong Kong University of Science and Technology; Kwok Yip Szeto, Hong Kong University of Science and Technology

The Mechanics of Direct Contagion in Financial Systems: a Flow Network Approach

By Mario Eboli, Università "G. d'Annunzio"

Small-World Topology, Scaling Crossover, and Community Structure in Table-Tennis Competition Networks

By Jia-Hong Sie, National Yang-Ming University; Yin-Jiun Tseng, National Yang-Ming University; Yuo-Hsien Shiau, National Chengchi University; Yen-Hung Liu, National Chengchi University; Ray-May Hsung, National Cheng-Chi University

The Effects of Weak Ties and Strong Ties on Personal Contact Network Boundary

By Chih-Yao Chang, Hwai-Chung Ho, and Yang-Chih Fu, Academia Sinica

Session: S8

Special Session: “Social Simulations on Social Networks and Social Capital”

Session Chair: Ray-May Hsung, National Chengchi University

Date: September 7, 2012

Time: 10:30a.m. – 12:10 p.m.

Location: 1st Floor Room #270114

When Does Simulated Data Match Real Data? Comparing Model Calibration Functions using Genetic Algorithms

By William Rand, University of Maryland; Forrest Stonedahl, Centre College

On the Rise and Fall of Social Interactions

By Wei-Chung Liu, Academia Sinica

Social Capital, Identity, Trust and Voting Behavior

By Ray-May Hsung, National Chengchi University; Yi-Jr Lin, National Chengchi University; Shu-Heng Chen, National Chengchi University

Session: E1

Session Chair: Michael A. Zaggl, Hamburg University of Technology

Date: September 7, 2012

Time: 10:30a.m. – 12:10 p.m.

Location: 1st Floor Room #270103

The Emergence of Capital Market from Cognitive Hierarchy with Agent-Based Modeling

By Guocheng Wang, The Chinese Academy of Social Sciences; Yuntao Long, University City, The Chinese Academy of Social Sciences

Understanding Citizens' Channel Choice of Public Service Delivery: An Agent Based Simulation Approach

By Shuang Chang, Tokyo Institute of Technology; Manabu Ichikawa, Tokyo Institute of Technology; Hiroshi Deguchi, Tokyo Institute of Technology

Towards New Urban Knowledge: Semantic Enrichment of Models of Urban

Dynamics

By Sonja Gievska, The George Washington University; Ognen Marina, *University of "Ss. Cyril and Methodius*; Bojan Karanakov, *University of "Ss. Cyril and Methodius*

Indirect Reciprocity in Social Organizations: Extending Image Scoring to Networks

By Michael A. Zaggl, Hamburg University of Technology; Klaus G. Troitzsch, University of Koblenz-Landau

Session: E2

Session Chair: Chia-Hsuan Yeh, Yuan Ze University

Date: September 7, 2012

Time: 10:30a.m. – 12:10 p.m.

Location: 1st Floor Room #270104

Price Dynamics and Herd Behavior on Shopbot Economics

By Gen Kobayashi, University of Tsukuba; Setsuya Kurahashi, University of Tsukuba

Investigating the Impact of Market Maker Strategies: a Multi-agent Simulation Approach

By Chi Wang, University of Tokyo; Kiyoshi Izumi, University of Tokyo; Takanobu Mizuta, University of Tokyo; Shinobu Yoshimura University of Tokyo

A Comprehensive Analysis of Time Series Segmentation on the Japanese Stock Prices

By Aki-Hiro Sato, Kyoto University

How does Overconfidence Affect Asset Pricing, Volatility, and Volume?

By Chia-Hsuan Yeh, Yuan Ze University; Chun-Yi Yang, George Mason University

Session: E3

Session Chair: Elpida Tzafestas, University of Athens

Date: September 7, 2012

Time: 10:30a.m. – 12:10 p.m.

Location: 1st Floor Room #270102

Consensus by Segregation - the Formation of Local Consensus within Context Switching Dynamics

By Davide Nunes, University of Lisbon; Luis Antunes, University of Lisbon

Trust-Based Coalition Formation: A Multiagent-Based Simulation

By Luis Gustavo, Nardin, Universidade de São Paulo; Jaime S. Sichman, Nardin, Universidade de São Paulo

A Development Environment of Gaming Simulation with Mobile Devices

By Akira Sasaki, Hosei University; Souichi Tatsumi, Hosei University; Manabu Ichikawa, Tokyo Institute of Technology; Hiroshi Deguchi, Tokyo Institute of Technology

Complex Evolutionary Pathways in Interacting Linguistic Communities

By Ioannis Vagias, University of Athens; Elpida Tzafestas, University of Athens