XI\textsuperscript{th} World Conference of the Spatial Econometrics Association
Singapore, June 13-15, 2017

Organized by
Singapore Management University
School of Economics
Welcome and Highlights

It gives us a great pleasure to welcome you to Singapore, the Lion City, the Garden City or the Little Red Dot, for the 11th World Conference of the Spatial Econometrics Association, the SEA2017! The SEA2017 has the objective to bring together econometricians, statisticians, economists, regional scientists and geographers to present and discuss their recent achievements in spatial econometric theories and applications, in connection with the analysis of externalities, spillovers, interactions, peer effects, network effects, etc., and more importantly to promote spatial economic activities in Asia.

We are extremely proud to be able to present nine distinguished speakers (3 keynotes and 6 invited), young researcher paper competition, a two-day short course after the conference, and a publishing opportunity, which constitute important highlights of the conference:

- **Keynote speakers**: Peter Robinson (LSE, UK), Jushan Bai (Columbia University, US), and Lung-Fei Lee (The Ohio State University, US)
- **Invited Speakers**: Anil Bera (University of Illinois at Urbana-Champaign, US), Badi Baltagi (Syracuse University, US), Ingmar Prucha (University of Maryland, US), Giuseppe Abia (Catholic U. of the Sacred Heart, Rome, Italy), J. Paul Elhorst (University of Groningen, The Netherlands), and Jesus Mur (University of Zaragoza, Spain).
- **Young researcher paper competition** sponsored by the Spatial Econometrics Association.
- **A two-day short course** on spatial econometrics and applications following the conference (June 16-17), by Giuseppe Arbia, Anil Bera, Badi Baltagi, and Ingmar Prucha
- **Publishing opportunity** in a special issue of *Regional Science and Urban Economics*, subject to the regular refereeing process.

The SEA2017 has been generously sponsored by Singapore Management University (SMU). It is organized by the School of Economics, SMU, through the Local Organizing Committee, with superb staff support, in particular, from Juniper NG Xue Ying.

We hope that the three-day conference will be fruitful for you, and that beside the academic activities you could also have a chance to experience the mixed culture, and the mixed cuisines in Singapore. We wish you an enjoyable stay in Singapore!

The Local Organizing Committee of SEA2017
The XI World Conference of the Spatial Econometrics Association

Zhenlin Yang (Chair), Singapore Management University
Jing Li, Singapore Management University
Shew Fan Liu, Singapore Management University
Qu Feng, Nanyang Technological University, Singapore
Wen-Chi Liao, National University of Singapore

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Luc Anselin, University of Chicago
Giuseppe Arbia, Catholic University of the Sacred Heart, Rome, Italy
Badi Baltagi, Syracuse University, USA
Anil Bera, University of Illinois, Urbana-Champaign, USA
Roger Bivand, Norwegian School of Economics, Norway
Nicolas Debarsy, University of Orleans, France
Paul Elhorst, University of Groningen, Netherlands
Julie Le Gallo, AgroSup Dijon, France
James LeSage, Texas State University
Lung-Fei LEE, Ohio State University
Jesus Mur, Universidad de Zaragoza, Spain
Alain Pirotte, University Panthéon-Assas Paris II, France
Ingmar Prucha, University of Maryland, USA
Peter Robinson, London School of Economics
Jihai YU, Peking University, China

Organizing Committee

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Jury for Young Researcher Paper Competition

The Spatial Econometrics Association sponsors a young researcher paper competition with a first prize of US $500 and two second prizes of US $300 each. A paper is eligible for the competition if the author is currently a graduate student or his/her graduation date was after Jan 1, 2015. In the case of a co-authored paper the eligibility criterion pertains to all authors.

The jury for the prize consists of the members of the SEA Board of Directors who are present at the conference. The jury chair, Giuseppe Arbia, will announce the prize winners and present the awards during the conference dinner on 14th June.

The jury comprises:
Giuseppe Arbia (Chair), Università Cattolica del Sacro Cuore, Roma, Italy
Badi Baltagi, Syracuse University, US
Ingmar Prucha, University of Maryland, USA
Peter Robinson, LSE, UK
Conference Venue

Singapore Management University (SMU) is located in almost the center of the city, directly connected to the busiest and the most popular shopping and eating area: the Orchard Road. All the academic activities will take place in the Administration Building of SMU (see the map below marked as SEA Conference):

- **Keynote Speeches:** Mochtar Riady Auditorium (5th floor)
- **Invited Talks:** Executive Seminar Room 4.1
- **Parallel Sessions:** Executive Seminar Rooms 4.1, 4.2, and 5.1
Information

Registration/Information Desk

A registration/information desk will be set up in the open space outside of the Mochtar Riady Auditorium on the 5th floor of the Administration Building. It will open throughout the day:

- 8:00-18:00 Tuesday, 13 June
- 8:30-18:00 Wednesday, 14 June
- 8:30-18:00 Thursday, 15 June.

Internet Access (WLAN)

Wireless internet access will be available for the conference participants. To access:

1. **Eduroam**
   - Choose for ‘eduroam’ from the available wireless networks. Users (researchers, teachers, students, staff) from a participating institution can access the Internet from another participating institution.

2. **SMU_Visitor**
   - At the Registration/Information Desk, ask for ‘self-help guide, choose ‘SMU_Visitor’ from the available wireless networks, and then register. Username and Password will be given via SMS. Alternatively, you may request for Wi-Fi Username and Password at the Registration/Information Desk when registering for conference.

Coffee Breaks/Lunch Breaks

Morning and afternoon coffee breaks and lunches for the three-day conferences will be served on the open space of the 5th floor of the Administration Building.

Reception Dinner and Conference Dinner

**The reception dinner** will be on Tuesday 19:00-22:00, at the Lei Garden inside the Chijmes (#01-24, 30 Victoria St), which is a 5min walk from the conference building. Additional tickets for spouse/guests can be purchased upon arrival (cost: S$70).

**The conference dinner** will be on Wednesday 19:00-22:30, at the Carlton Hotel (Level 4, Esplanade Room), which is just opposite of the conference building. Additional tickets for spouse/guests can be purchased upon arrival (cost S$100), subject to availability.

Transportation in Singapore

The easiest way to go from the airport to your hotel is by taxi. It costs about S$20-$30, and takes about 20 min to reach the hotel nearby the conference venue. Other forms of transport to the City from the airport can be found here: [http://www.changiairport.com/en/transport/public-transport.html](http://www.changiairport.com/en/transport/public-transport.html)

To go to other places in Singapore from your hotel, public transportations, such as bus and MRT (mass rapid transit), are convenient. The nearest MRT stations to the conference location are Bras
Basah Station (Yellow/Circle Line) and Dhoby Ghaut Station (Red/North-South Line). Both lines are conveniently connected to all other MRT lines and famous tourist attractions in Singapore and the Changi Airport. The link https://www.transitlink.com.sg/images/eguide/mrt_sys_map.htm contains the latest MRT map.

If you wish to travel in Singapore we recommend that you to purchase an EZ-Link card from an MRT station or a 7-Eleven Store which comes with stored credit that can be used for future rides on both bus and train (MRT). Each ride using the card costs S$0.70-S$2. Single journey ticket for train is available from the MRT station, and single journey by bus can be paid (by coin) on bus to the driver.

You could also take taxi to get around in Singapore, which is not expensive relative to the other countries. Dedicated taxi companies such as Comfort and Delgro, Trans-Cab, etc., can be flagged down almost anywhere in Singapore including your hotel lobby. Private companies such as Grab and Uber are becoming quite popular in Singapore due to cheaper fares and convenience. If you wish to use these services, you may download the respective apps to your mobile device. More information can be found here: https://www.grab.com/sg. The taxi stands and drop off points near the conference venue can be found in page 4.

Tourist Attractions in Singapore

SMU is a conveniently located city campus with many surrounding tourist attractions that can be reached within a few minutes. Some nearby attractions include:

- **Marina Bay Sands** and the **Gardens by the Bay** (directly accessible via Circle line)
- **Singapore Flyer** and the **Esplanade Theatre**. (Alight from Esplanade station in Circle line).
- **National Museum, Singapore Art Museum** and the **Peranakan Museum** are all located within walking distance from the conference location.
- **China town** and **Little India** are famous for the unique cultural experience and cuisine. Both locations are along the Purple/North-East line.
- **Universal Studios, Sentosa Island** and **Resorts World Sentosa** with its many other attractions can be conveniently reached using the monorail located inside the **Vivo City Mall** which is the final stop of the Purple/North-East Line (Harbour Front Station).
- Singapore has one of the best **zoos** in the world and is highly recommend. It can be reached by public transport, however, due to its remote location taking a taxi will be the best option. The **River Safari** as well as the **Night Safari** are all located in the same vicinity.
- The Singapore hop-on-hop-off bus is a popular choice among tourists which gives a comprehensive coverage of the key attractions as well as information regarding historical and present importance of various locations. The tickets can be purchased online and the bus loop intercepts the bus station in front of Rendezvous Hotel (near School of Economics).
- **Orchard road** (shopping street) – two stations away from Dhoby Ghaut along the Red Line
- **Singapore Botanic Gardens**, was recently classified as a World Heritage Site and can be reached via the Downtown/Blue Line or the Circle Line. The **National Orchid Garden** located within, exhibits a wide array or hybrid orchids.
- **Clark Quay** area offers a vibrant nightlife and is popular for its entertainment clubs and local cuisine. It is located along the Purple/North-East Line.

Eateries and Restaurants

Singapore is a multi-cultural society, and associated with are the different types of cuisines. For economic and quick food, there are food courts and popular diners around the campus:

- **Koufu** located in basement 1 (concource) of Li Ka Shing Library
- **Food Republic** located near School of Economics
- **Swissbake**, Level 1, School of Accountancy
- **Coffee Club and 1983 Café**, Level 1, Li Ka Shing Library
- **Pastamania**, concourse, next to Koufu
- **Subway**, Level 1, School of Information Systems
- **Tea Party**, Level 1, School of Economics

For more formal meals (lunch/dinner), there are many good restaurants around the campus:

- **True Blue**: (Local Cuisine, Peranakan Food): 47/49 Armenian Street, Singapore 179937
- **Lokkee** (Chinese Cuisine): 68 Orchard Road, #03-01, Plaza Singapura, 238839
- **Nanjing Impressions** (Chinese Cuisine): 68 Orchard Rd, #04-46-51, Plaza Singapura, 238839
- **Red House** (Chinese Cuisine): 68 Prinsep St, Singapore 188661
- **Gyu-Kaku** (Japanese Cuisine): 30 Victoria St, #01-01/#01-03, Convent of Holy Infant Jesus Chapel and Caldwell House (**Chijmes**), Singapore 187996.
- **Flutes** (French Cuisine): 93 Stamford Road, The National Museum of Singapore, 178897
- **Trattoria Lafiandra** (Italian Cuisine): 71 Bras Basah Rd, Singapore 189555

The Chijmes, a historic building complex (3min walk from the conference site), also houses many other restaurants of different types of cuisines.

**Guidelines for Presentation**

**Keynote Speeches**

The SEA2017 is pleased to present **Jushan Bai**, **Peter Robinson**, and **Lung-Fei Lee** as keynote speakers. The time allocation for a keynote speech is one hour (50 minutes for presentation and 10 minutes for general discussion).

**Invited Talks**

The SEA2017 is also pleased to present **Anil Bera**, **Ingmar Prucha**, **Giuseppe Arbia**, **Badi Baltagi**, **J. Paul Elhorst**, and **Jesus Mur** as invited speakers. The time allocation for each invited talk is 45 minutes (about 38 minutes for presentation and 7 minutes for general question).

**Parallel Sessions**

All presenters in the parallel sessions should arrive in advance and make sure the pdf file for his/her presentation and discussion installed. Each presenter is allocated with 30 minutes, with 20 minutes for presentation, 5 minutes for discussion and 5 minutes for general discussion. Please respect the time limit for presenting and for discussion. The chairs are advised to enforce the time constraints.

Session chairs have been assigned in the program. The chair has to ensure that a laptop is functioning properly and that time constraints are met. He or she should welcome and introduce the participants and moderate the open discussion. If the session’s chair is absent, the last presenter listed should take the role of the chair.

Every presenter is discussant of the previous paper as indicated in the program. Accordingly, the second speaker is discussant of the first paper; the third speaker is discussant of the second paper, and so forth. The first speaker is discussant of the last paper.
# Summary of Program

## Monday 12th: Registration and Icebreaking 18:00-19:30

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<td><strong>Invited I:</strong> Bera, Prucha &amp; Parallel Sessions 3 16:30-18:00</td>
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<td><strong>Invited III:</strong> Elhorst, Mur &amp; Parallel Sessions 9 16:30-18:00</td>
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<td><strong>Reception Dinner</strong> 19:00-22:00</td>
<td><strong>Conference Dinner</strong> 19:00-22:30</td>
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**Tuesday 12 June**

**18:00-19:30** Registration and Icebreaking (U-Lounge, Level 6, Admin Building)

**Tuesday 13 June**

**8:00 – 18:00** Registration (Outside the Mochtar Riady Auditorium)

The registration desk will be open all day, starting from half an hour before the program commences to the end of the last session. Feel free to approach the local organizers with all your questions and queries.

**8:30 – 9:00** Opening (Mochtar Riady Auditorium)

**Welcome:** Zhenlin Yang, Chair of the Local Organizing Committee

**Commemorating Florax and Ertur & SEA Meeting–Approval of Budget:** Giuseppe Arbia, Chairman of the Spatial Econometric Association

**9:00 – 10:00** Keynote Speech I (Mochtar Riady Auditorium)

**Jushan Bai**, Columbia University, US  
*Inferences in Panel Data with Interactive Effects Using Large Covariance Matrices* (with Yuan Liao, Rutgers University, US)

**Chair:** Badi Baltagi, Syracuse University, US

**10:00 – 10:30** Coffee Break (5th Floor, Admin Building)

**10:30 – 12:30** Parallel Sessions 1

**Session 1.1: Spatial Regression I, Seminar Room 4.1**

**Chair:** Daisuke Murakami, National Institute for Environmental Studies, Japan

**Guohui Wu** 7, SAS Institute Inc.  
*Variational Bayesian Inference for Spatial Autoregressive Models: A Fast and Scalable Solution to Big Data Problems.*  
**Discussant:** Luis Silveira Santos

**Luis Silveira Santos** 13, ISEG–ULisboa and CEMAPRE, Portugal  

**Discussant:** Daisuke Murakami

**Daisuke Murakami** 18, National Institute for Environmental Studies, Japan  
*Spatially Varying Coefficient Model for Large Dataset: A Rank Reduction Approach* (with Yoshiki Yamagata, National Institute for Environmental Studies, Japan, and Daniel A. Griffith, The University of Texas, Dallas, US).

**Discussant:** Guohui Wu
Session 1.2: Estimating and Testing Spatial Models, Seminar Room 4.2

Chair: Kai Yang, Shanghai University of Finance and Economics, China

Kai Yang 30, Shanghai University of Finance and Economics, China
Identification and Estimation of the Multivariate Nonlinear Spatial Autoregressive Models (with Lung-Fei Lee, The Ohio State University, US)
Discussant: Qianting Ye

Qianting Ye 74, South China University of Technology, China
Proposing use of Locally Spatial Autoregressive Error Model with a Hierarchical Data Structure (with Stewart Fotheringham, Arizona State University, US, and Zhihe Long, South China University of Technology, China)
Discussant: Xu Yuhong

Xu Yuhong 93, Singapore Management University
Discussant: Yu Bai

Yu Bai 26, Bocconi University, Milan, Italy
A Monte Carlo Comparison of GMM and QMLE Estimators for Short Dynamic Panel Data Models with Spatial Errors (with Shaofu Zhou and Zhaoyuan Fan, Huazhong University of Science & Technology, Wuhan, China)
Discussant: Kai Yang

Session 1.3: Firm Productivity and Agglomeration, Seminar Room 5.1

Chair: Michaela Kesina, ETH Zurich, Switzerland

Er-ribib Rim 17, University of Tsukuba, Japan
Measuring Industrial Agglomeration and Coagglomeration: An Exploratory Spatial Analysis Approach Applied to Japan (with Tsutsumi Morito, University of Tsukuba, Japan).
Discussant: Jungho Lee

Jungho Lee 61, Singapore Management University
Why Do Businesses Grow Faster in Urban Areas than in Rural Areas (with Jianhuan Xu, Singapore Management University).
Discussant: Michaela Kesina

Michaela Kesina 80, ETH Zurich, Switzerland
Contagious Exporting and Foreign Ownership: Evidence from Firms in Shanghai (with Badi Baltagi, Syracuse University, US, and Peter Egger, ETH Zurich, CEPR, CESifo, GEP, Switzerland).
Discussant: Er-ribib Rim

12:30 – 14:00 Lunch (5th Floor, Admin Building)
14:00 – 16:00 Parallel Sessions 2

**Session 2.1: Spatial Panel Model I, Seminar Room 4.1**

**Chair:** Qu Feng, Nanyang Technological University, Singapore

**Wei Shi** 64, Jinan University, China  
The Effects of Gun Control on Crimes: A Spatial Interactive Fixed-Effects Approach  
(with Lung-Fei Lee, The Ohio State University, US).

**Discussant:** Wenxin Huang

**Wenxin Huang** 92, Singapore Management University  
Grouped Nonstationary Panel Model with Cross-sectional Dependence–Multiple Regimes of Economies Convergence (with Peter C.B. Phillips, Yale University, US; University of Auckland, New Zealand; University of Southampton, UK; Singapore Management University, and Liangjun Su, Singapore Management University).

**Discussant:** Xiaoyi Han

**Xiaoyi Han** 11, Xiamen University, China  
Bayesian Analysis of A Spatial Dynamic Panel Data Model with Dynamic Network Formation (with Chih-sheng Hsieh, the Chinese University of Hong Kong, China, and Stanley I. M. Ko, University of Macau, China).

**Discussant:** Qu Feng

**Qu Feng** 29, Nanyang Technological University, Singapore  
Structural Changes in Heterogeneous Panels with Endogenous Regressors  
**Discussant:** Wei Shi

**Session 2.2: Financial Economics, Seminar Room 4.2**

**Chair:** Kelley Pace, Louisiana State University, US

**Kelley Pace** 25, Louisiana State University, US  
Mortgage default decisions in the presence of non-normal, spatially dependent disturbances (with Raffaella Calabrese, University of Edinburgh, UK, and Meagan McCollum, Zicklin School of Business, Baruch College, US).

**Discussant:** Huajie Liang

**Huajie Liang** 75, South China University of Technology, China  
The change of tunneling: Supervision of expropriation in financial crisis (with Qianting Ye and Renceng Wang, South China University of Technology, China).

**Discussant:** Jingshu Luo

**Jingshu Luo** 54, Temple University, US  
Strategic interaction, relative performance evaluation and CEO compensation: evidence from the U.S. property casualty insurance industry.

**Discussant:** Kelly Pace

**Session 2.3: Natural Disaster, Seminar Room 5.1**

**Chair:** Eric Strobl, Universite Aix-Marseille, France
Eric Strobl 32, Université Aix-Marseille, France
Spatial Correlation of Hurricane Damage and Cross-Country Insurance in the Caribbean (with Andreas Heinen, Université Cergy-Pontoise, France).
Discussant: Voravee Saengavut

Voravee Saengavut 37, Khon Kaen University, Thailand
Spatial Distribution of Willingness to Pay for Mitigating Flood Damages; the Evidence of the Northeastern Thailand (with Watinee Thavorntam, Chiang Mai University, Thailand).
Discussant: Reinhard Weisser

Reinhard Weisser 9, Leibniz Universität Hannover, Germany
Only a matter of perception? The impact of local shocks on economic well-being (with Wiebke Stein, Leibniz Universität Hannover, Germany).
Discussant: Eric Strobl

16:00 – 16:30 Coffee Break (5th Floor, Admin Building)

16:30 – 18:00 Invited Talks 1 & Parallel Session 3

Invited Talks 1, Seminar Room 4.1
Chair: Paul Elhorst, University of Groningen, The Netherlands.

Anil Bera, University of Illinois at Urbana-Champaign, US
Testing/Tasting Spatial Models with a review of the current literature.

Ingmar Prucha, University of Maryland, US
A Robust Test for Network Generated Dependence (with Xiaodong Liu, University of Colorado Boulder, US).

Parallel Session 3: Population and Demographics, Seminar Room 4.2
Chair: Suddhasil Siddhanta, Gokhale Institute of Politics and Economics, India

Arash Nayebyazdi 46, Mellat Bank, Iran
The Impact of Population Age Structure on Economic Development of Iran’s Provinces (with Amir Hossein Ghaffari Nejad, Mellat Bank, Iran).
Discussant: Xindi Mou

Xindi Mou 78, University of Chinese Academy of Sciences, China
Regional Differences in the Impact of Population Aging on Urban Housing Demand: The Case of China (with Jichang Dong, Linlin Zhu, and Xiuting Li, University of Chinese Academy of Sciences, China).
Discussant: Suddhasil Siddhanta

Suddhasil Siddhanta 91, Gokhale Institute of Politics and Economics, India
Let the Map Speak: Use of Mapping Technique for Policy Analysis (with Debasish Nandy, Gokhale, Institute of Politics and Economics, India).
Discussant: Arash Nayebyazdi

19:00 – 22:00 Reception Dinner (Lei Garden in Chijmes, #01-24, 30 Victoria St)
Wednesday 14 June

8:30 – 18:00  Registration (Outside Auditorium)
The registration desk will be open all day, starting from half an hour before the program commences to the end of last session. Feel free to approach the local organizers with all your questions and queries.

9:00 – 10:00  Keynote Speech II (Auditorium)

Peter Robinson, London School of Economics, UK
*Inference on Trending Panel Data* (with Carlos Velasco, Universidad Carlos III de Madrid, Spain)

Chair: Ingmar Prucha, University of Maryland, USA

10:00 – 10:30  Coffee Break (5th Floor, Admin Building)

10:30 – 12:30  Parallel Sessions 4

**Session 4.1: Spatial Panel Model II, Seminar Room 4.1**

Chair: Alain Pirotte, University Paris II Panthéon-Assas, France

Karen Miranda 73, Rovira i Virgili University, Spain
*Growth with Unobserved Technological Interdependences: The Spatial Durbin Dynamic Panel Model with Correlated Random Effects* (with Martinez O. and Manjon-Antolin M., Rovira i Virgili University, Spain).

Discussant: Liyao Li

Liyao Li 86, Singapore Management University
*M-Estimation and Inference for Spatial Dynamic Panel Data Models with Correlated Random Effects* (with Zhenlin Yang, Singapore Management University).

Discussant: Yao-Yu Chih

Yao-Yu Chih 71, Texas State University, US
*A Matrix Exponential Spatial Panel Model with Heterogeneous Coefficients* (with James LeSage, Texas State University, US).

Discussant: Alain Pirotte

Alain Pirotte 33, CRED, University Paris II Panthéon-Assas, France
*A Multi-Dimensional Spatial Lag Panel Data Model with Spatial Moving Average Nested Random Effects Errors* (with Bernard Fingleton, University of Cambridge, UK, and Julie Le Gallo, University Bourgogne Franche-Comté, France).

Discussant: Karen Miranda

**Session 4.2: Urban Infrastructure and Housing, Seminar Room 4.2**

Chair: Wen-Chi Liao, National University of Singapore

Zheng Chang 87, City University of Hong Kong, China
*Land Leasehold, Transportation Infrastructure, and Residential Suburbanization: Evidence from Shanghai, China* (With Jin Murakami, City University of Hong Kong, China).

Discussant: Arfat Ahmad Sofi
**Arfat Ahmad Sofi** 57, Indian Institute of Technology Madras, India
*Do Indian States Mimic, Compete or Interact in Local Public Spending? A Spatial Econometric Analysis* (with Subash S., Indian Institute of Technology Madras, India). **Discussant:** Wen-Chi Liao

**Wen-Chi Liao** 49, National University of Singapore
*The Butterfly Effect of Transport Network Connectivity: A New Perspective of Housing Studies and Its Welfare Implication* (with Kecen Jing, National University of Singapore). **Discussant:** Zheng Chang

**Session 4.3: Spatial Approach to Healthcare Studies, Seminar Room 5.1**

**Chair:** Kiyoyasu Tanaka, Institute of Developing Economies, Japan

**Mizanur Rahman Sarker** 19, Hitotsubashi University, Japan
*A Spatial Panel Modeling in Health Environment: Evidence from the Use of Improved Sanitation and Drinking Water Sources* (with Hidetoshi Yamashita, Hitotsubashi University, Japan). **Discussant:** I Gede Nyoman Mindra Jaya

**I Gede Nyoman Mindra Jaya** 60, University of Padjadjaran, Indonesia
*Forecasting Relative Risk of Dengue Fever Disease in Bandung by Means Integrated Nested Laplace Approximation (INLA)* (with Henk Folmer, Northwest Agriculture and Forestry University, China, and Yudhie Andriyana, Zulhnif, and Bertho Tantular, University of Padjadjaran, Indonesia). **Discussant:** Felipa Sampayo

**Felpa Sampayo** 62, Instituto Universitario de Lisboa, Portugal
*Heterogeneity and Spatial Dependence on Healthcare Accessibility: Evidence from Texas Counties.* **Discussant:** Kiyoyasu Tanaka

**Kiyoyasu Tanaka** 47, Institute of Developing Economies, Japan
*Agglomeration Economies in the Formal and Informal Sectors: A Bayesian Spatial Approach* (with Yoshihiro Hashiguchi, Institute of Developing Economies, Japan). **Discussant:** Mizanur Rahman Sarker

12:30 – 14:00 **Lunch** (5th Floor, Admin Building)

14:00 – 16:00 **Parallel Sessions 5**

**Session 5.1: Inference and Bootstrap in Spatial Models, Seminar Room 4.1**

**Chair:** Zhenlin Yang, Singapore Management University

**Domenico Depalo** 42, Bank of Italy, Italy
*Reconciling ML and TSLS Estimators in Spatial Models* (with Vincenzo Atella, University of Rome Tor Vergata, Italy; Stanford University, US, and Belotti F. and Piano Mortari A., University of Rome Tor Vergata, Italy). **Discussant:** Qian Guo

**Qian Guo** 15, University of London, UK
*Obtaining Spatial Data Through Attribute Sampling – A New Method to Identify Rare Events When There is No Data* (with Jing Chen, Cardiff University, UK). **Discussant:** Zhenlin Yang
Zhenlin Yang 88, Singapore Management University
Discussant: Domenico Depalo

Session 5.2: Regional Growth and Development, Seminar Room 4.2
Chair: Alfredo Cartone, University of Chieti-Pescara, Italy

Shuai Shi 4, University of Reading, UK
The Simultaneous Resonation of Spatial Proximity and Network Farness in Regional Growth Model: Take Mid-Yangtze River Region as an Example.
Discussant: Yanli Zhu

Yanli Zhu 31, Hohai University, China
Does Regional Competition Promote Growth in China? An Empirical Study of Financial Access (with Xiaoyi Han and Cheryl Long, Xiamen University, China).
Discussant: Alfredo Cartone

Alfredo Cartone 81, University of Chieti-Pescara, Italy
Regional Economic Convergence in European Regions: A Spatial Quantile Regression Approach (with Paolo Postiglione, University of Chieti-Pescara, Italy).
Discussant: Shuai Shi

Session 5.3: Applied Economics, Seminar Room 5.1
Chair: Jing Li, Singapore Management University

Cheng Keat Tang 8, London School of Economics, UK
Do Speed Cameras Save Lives?
Discussant: Eric Fesselmeyer

Eric Fesselmeyer 52, National University of Singapore
The Effect of Density on Residential Prices in Singapore (with Kiat Ying Seah and Jonathan Kwok, National University of Singapore).
Discussant: Laura Guiying Wu

Laura Guiying Wu 50, Nanyang Technological University
Estimating Productivity of Public Infrastructure Investment (with Qu Feng and Zhifeng Wang, Nanyang Technological University).
Discussant: Jing Li

Jing Li 85, Singapore Management University
Housing Upgrading in Urban Redevelopment.
Discussant: Cheng Keat Tang

16:00 – 16:30 Coffee Break (5th Floor, Admin Building)
16:30 – 18:00 Invited Talks 2 & Parallel Session 6

**Invited Talks 2, Seminar Room 4.1**

**Chair:** Jesus Mur, University of Zaragoza, Spain

**Giuseppe Arbia,** Università Cattolica del Sacro Cuore, Italy
*Locational Errors and Missing Data in Spatial Microeconometric Modelling: Problems and Solutions.*

**Badi Baltagi,** Syracuse University, US
*A Time-Space Dynamic Panel Data Model with Spatial Moving Average Errors* (with Bernard Fingleton, University of Cambridge, UK, and Alain Pirotte, University Paris II Panthéon-Assas, France).

**Parallel Session 6: Industrial Spatial Dependence, Seminar Room 4.2**

**Chair:** Andres Artal Tur, Technical University of Cartagena, Spain

**Keisuke Takano** 38, University of Tsukuba, Japan
*Spatial Analysis of Inter-prefectural Industrial Relocation Flows: Evidence from Japan* (with Morito Tsutsumi, University of Tsukuba, Japan).

**Discussant:** Ying Deng

**Ying Deng** 41, University of International Business and Economics, China
*Entrepreneurship and Co-Villager Networks of Internal Migrants in China* (with Xiangjun Ma, University of International Business and Economics, China).

**Discussant:** Andres Artal Tur

**Andres Artal-Tur** 16, Technical University of Cartagena, Spain
*Accounting For Spatial Dependence in Tourist Expenditure Functions* (with Luisa Alamá-Sabater, University Jaume I, Spain).

**Discussant:** Keisuke Takano

19:00 – 22:30 Conference Dinner (Carlton Hotel, Level 4, Esplanade Room)
Thursday 15 June

8:30 – 18:00  Registration (Outside the Auditorium)
The registration desk will be open all day, starting from half an hour before the program commences to the end of last session. Feel free to approach the local organizers with all your questions and queries.

9:00 – 10:00  Keynote Speech III (Auditorium)
Lung-Fei Lee, The Ohio State University, US
Some Studies on SAR Models with Endogenous Spatial Weights
Chair: Anil Bera, University of Illinois at Urbana-Champaign, US

10:00 – 10:30  Coffee Break (5th Floor, Admin Building)

10:30 – 12:30 Parallel Sessions 7

**Session 7.1: Spatial Regression II, Seminar Room 4.1**
Chair: Fei Jin, Shanghai University of Finance and Economics, China

Xi Qu 3, Shanghai Jiao Tong University, China
Estimation of an Endogenous SAR Model with Spatial Weights Constructed by Bilateral Variables (with Lung-Fei Lee, The Ohio State University, US).
Discussant: Giuseppe Arbia

Giuseppe Arbia 94: Università Cattolica del Sacro Cuore, Italy
Estimation of spatial econometric linear models with large datasets: How big can be spatial Big Data? (with Ghiringhelli)
Discussant: Fei Jin

Fei Jin 22, Shanghai University of Finance and Economics, China
GEL Estimation of Spatial Autoregressive Models with Endogenous Spatial Weights (with Lung-Fei Lee, The Ohio State University, US).
Discussant: Xi Qu

**Session 7.2: Real Estate Markets, Seminar Room 4.2**
Chair: Sofia Franco, Universidade Nova de Lisboa, Portugal

Dishant Shahi 72, Delhi Technological University, India
Real Estate Rigidities (with Aradhya Shandilya and Nand Kumar, Delhi Technological University, India).
Discussant: Nicolas Duran

Nicolas Duran 21, University of Groningen, The Netherlands
Discussant: Sofia Franco
**Sofia Franco**  6, Universidade Nova de Lisboa, Portugal  
*The Determinants of Non-residential Real Estate Values with Special Reference to Local Amenities* (with W. Bowman Cutter, Pomona College, US).  
**Discussant:** Naqun Huang

**Naqun Huang**  76, Singapore Management University  
*Home-purchase Restriction, Property Tax and Housing Price in Singapore: A Spatial Dynamic Panel Data Approach*  
**Discussant:** Dishant Shahi

**Session 7.3: Environment, Seminar Room 5.1**

**Chair:** Yanying Chen, Singapore Management University

**Yanying Chen**  12, Singapore Management University  
*Dengue Outbreaks and Households’ Electricity Consumption Behaviour: Evidence from Singapore* (with Yi Jin Tan, Singapore Management University)  
**Discussant:** I Gede Nyoman Mindra Jaya

**I Gede Nyoman Mindra Jaya**  51, *University of Padjadjaran, Indonesia*  
*Forecasting Multiple Infectious Diseases by Mean Bayesian Spatiotemporal Shared Component Model* (with Henk Folmer, Northwest Agriculture and Forestry University, China, and Budi Nurani Ruchjana, *University of Padjadjaran, Indonesia*).  
**Discussant:** Yan Cen

**Yan Cen**  36, Northeast Normal University, China  
**Discussant:** Yanying Chen

12:30 – 14:00 Lunch (5th Floor, Admin Building)

14:00 – 16:00 Parallel Sessions 8

**Session 8.1: Social Interaction and Network, Seminar Room 4.1**

**Chair:** Chih-Sheng Hsieh, Chinese University of Hong Kong, China

**Chao Yang**  24, Shanghai University of Finance and Economics, China  
*Social Interactions under Incomplete Information with Heterogeneous Expectations and Multiple Equilibria.*  
**Discussant:** Stanley Iat-Meng Ko

**Stanley Iat-Meng Ko**  35, University of Macau, China  
*A Nonparametric Bayesian Latent Attribute Model for Social Network Formation and Interactions* (with Chih-Sheng Hsieh, Chinese University of Hong Kong).  
**Discussant:** Hon Ho Kwok

**Hon Ho Kwok**  90, The University of Hong Kong, China  
*Network Identification Methods Based on Change of Basis.*  
**Discussant:** Chih-Sheng Hsieh
Chih-Sheng Hsieh 10, Chinese University of Hong Kong, China
*Social Interactions Model with Altruistic Preference* (with Xu Lin, Wayne State University, US).
**Discussant:** Chao Yang

**Session 8.2: Spatial Approach Applications, Seminar Room 4.2**

**Chair:** Takaki Sato, Tohoku University, Japan

Takaki Sato 55, Tohoku University, Japan
*Spatial Autoregressive Conditional Heteroscedasticity Models and Their Applications to Land Price Data in Tokyo* (with Yasumasa Matsuda, Tohoku University, Japan)
**Discussant:** Tibor Mar

Tibor Marton 79, The Norwegian Institute of Bioeconomy Research, Norway
*Observed Crop-Yield Response: Economic and Agro-climatic Factors in Austria - a Spatial Analysis*
**Discussant:** Kelley Pace

Kelley Pace 84, Louisiana State University, US
*Ignoring Fat Tails and the Spatial Dependence in the Disturbances Makes Black Swans Appear Grey* (with Raffaella Calabrese, University of Edinburgh, UK)
**Discussant:** Dieter Wang

Dieter Wang 56, Vrije Universiteit Amsterdam, Tinbergen Institute and De Nederlandsche Bank, The Netherlands
*Estimating Dynamic Spillover Effects with Spatial State-Space Models*
**Discussant:** Takaki Sato

**Session 8.3: Ripple Effect in Housing Markets, Seminar Room 5.1**

**Chair:** Beulah Chelva, University of Leeds, UK

Beulah Chelva 69, University of Leeds, UK
*A Spatio-Temporal Analysis of the English Housing Market*
**Discussant:** Idaliya Grigoryeva

Idaliya Grigoryeva 70, University of British Columbia, Canada
*Going Through the 'Roof': Ripple Effect on the Vancouver Housing Market*
**Discussant:** Linlin Zhu

Linlin Zhu 77, University of Chinese Academy of Sciences, China
*The Diffusion Effect of Urban Real Estate Prices in China Based on the Spatial-temporal Model* (with Jichang Dong, Chenchen Wang, Bing Wang, and Xiuting Li, University of Chinese Academy of Sciences, China).
**Discussant:** Juncong Guo

Juncong Guo 59, Shanghai Jiao Tong University, China
*Spatial Interactive Effects in Housing Prices of Shanghai and Beijing* (with Xi Qu, Shanghai Jiao Tong University, China).
**Discussant:** Beulah Chelva

16:00 – 16:30 **Coffee Break** (5th Floor, Admin Building)
16:30 – 18:00 Invited Talks 3 & Parallel Session 9

**Invited Talks 3, Seminar Room 4.1**

**Chair: Giuseppe Arbia**, Università Cattolica del Sacro Cuore, Rome, Italy.

**Paul Elhorst**, University of Groningen, The Netherlands. 

**Jesus Mur**, University of Zaragoza, Spain. 
*Choosing a Weighting Matrix. A New Approach Based on Entropy* (with Marcos Herrera, University of Salta, Argentina, and Manuel Ruiz, University of Cartagena, Spain).

**Parallel Session 9: Labor Economics, Seminar Room 4.2**

**Chair: Reinhold Kosfeld**, University of Kassel, Germany

**Reinhold Kosfeld** 2, University of Kassel, Germany 
*On the Existence of an East German Wage Curve – A Spatial Panel Analysis East German Labour Market Regions* (with Christian Dreger, German Institute of Economic Research, German). 
**Discussant:** Mizuki Kawabata

**Mizuki Kawabata** 14, Keio University, Japan 
*Intra-Metropolitan Disparities in Female Labor Force Participation and Commute Times* (with Yukiko Abe, Hokkaido University).  
**Discussant:** M. Shahadat Hossain Sarker

**M. Shahadat Hossain Sarker** 28, Bangladesh Rural Development Board, Bangladesh 
*Regional Level Spatial Modeling of Child Labor in South Asia: Evidence from Bangladesh* (M. Mizanur Rahman Sarker, Sher-e-Bangla Agricultural University, Bangladesh).  
**Discussant:** Reinhold Kosfeld

18:00 Farewell
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