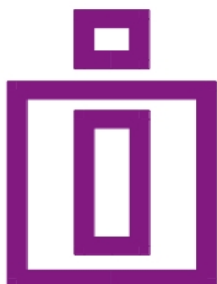




# **24th IIOA Conference in SEOUL, Korea**

*CONFERENCE PROGRAM*

03/Jul/2016 - 08/Jul/2016



**International Input-Output Association**

Vienna, AUSTRIA

[www.iioa.org](http://www.iioa.org)

## PROGRAM OVERVIEW

Time	Sun, 03/Jul/2016	Mon, 04/Jul/2016	Tue, 05/Jul/2016	Wed, 06/Jul/2016	Thu, 07/Jul/2016	Fri, 08/Jul/2016	
09:00 - 09:30		The International School of Input-Output Analysis	Opening Ceremony	Flash Session 1	Flash Session 2	Parallel Session 6	
09:30 - 10:00			Keynote Speech 1	Keynote Speech 2	Keynote Speech 3		
10:00 - 10:30	IIOA Council Meeting (invitation only)		Coffee Break	Coffee Break	Coffee Break	Coffee Break	
10:30 - 11:00				Super-event: Guess Who on What?	IIOA General Assembly	Parallel Session 3	Parallel Session 7
11:00 - 11:30				Lunch	Lunch	Lunch	Lunch
11:30 - 12:00							
12:00 - 12:30							
12:30 - 13:00							
13:00 - 13:30							
13:30 - 14:00							
14:00 - 14:30							
14:30 - 15:00							
15:00 - 15:30							
15:30 - 16:00							
16:00 - 16:30				Coffee Break	Excursion	Coffee Break	Coffee Break
16:30 - 17:00				Parallel Session 1		Parallel Session 4	Parallel Session 8
17:00 - 17:30				Parallel Session 2	Parallel Session 5	Closing Session	
17:30 - 18:00							
18:00 - 18:30	Welcome Reception for International School of Input-Output Analysis	Welcome Reception for the IIOA Conference		Conference Dinner	Young Researchers' "Get Together"		
18:30 - 19:00							
19:00 - 19:30							
19:30 - 20:00			IIOA Economic Systems Research - Editorial Board Meeting (invitation only)				
20:00 - 20:30							
20:30 - 21:00							
21:00 - 21:30							
21:30 - 22:00							

## SESSION PLAN

### Sun, 03/Jul/2016

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10:00 - 18:00 *IIOA Council Meeting (invitation only)*

18:00 - 20:00 *Welcome Reception for International School of Input-Output Analysis*

### Mon, 04/Jul/2016

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09:00 - 18:00 *The International School of Input-Output Analysis*

09:00-10:30 Session 1

10:30-11:00 Coffee Break

11:00-13:00 Session 2

13:00-14:00 Lunch

14:00-16:00 Session 3

16:00-16:30 Coffee Break

16:30-18:00 Session 4

[Module 1]

E3ME Global Macro-Econometric Model

Lecturers: Hector POLLITT (Cambridge Econometrics), Soochool LEE (Meijo University)

[Module 2]

Construction of OECD Inter-country Input-Output (ICIO) Database

Lecturers: Norihiko YAMANO, Colin WEBB and Kirsten WIEBE

[Module 3]

Dynamic IO analysis

Lecturer: Bert STEENGE

[Module 4]

Structural Decomposition Analysis

Lecturer: Bart LOS and Erik DIETZENBACHER

[Module 5]

Environmental impacts of consumption-based policies

Lecturers: Richard WOOD

18:00 - 20:00 *Welcome Reception for the IIOA Conference*

Location: Engineering Research Park

## Tue, 05/Jul/2016

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09:00 - 09:30 *Opening Ceremony*

Location: **Auditorium**

- Erik DIETZENBACHER, President, International Input-Output Association, Professor, University of Groningen
- Young Kyung SUH, Deputy Governor, Bank of Korea
- Sang Yul SHIM, President, Korean Association of Economic System Research (KESRA)  
followed by an introductory movie on Yonsei University  
(Chair: Satoshi INOMATA, Institute of Developing Economies, JETRO)

09:30 - 10:30 *Keynote Speech 1*

Location: **Auditorium**

Pol ANTRÀS

Robert G. Ory Professor of Economics, Harvard University  
(Chair: Bart LOS, University of Groningen)

10:30 - 11:00 *Coffee Break*

### **11:00 - 12:30 Super-event: Guess Who on What?**

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Navigator: Satoshi INOMATA, Institute of Developing Economies, JETRO

\*\*\* Some prominent IO researchers will be there for presentations !! \*\*\*

- Location: **Venue F: B112**

Topic: **Guess Who on What? ...Lot A**

1. Geographical keyword: The U.S.  
by ... *absolutely secret until the day !!!*
2. Geographical keyword: The World  
by ... *absolutely secret until the day !!!*

- Location: **Venue W: 101**

Topic: **Guess Who on What? ...Lot B**

1. Geographical keyword: Europe  
by ... *absolutely secret until the day !!!*
2. Geographical keyword: From Brazil via Congo to Outer Space  
by ... *absolutely secret until the day !!!*

12:30 - 14:00 *Lunch*

**14:00 - 16:00 Parallel Session 1**● Location: **Venue A: B101**

Topic: **514A Special session: Science for Re-designing Science, Technology and Innovation (SciREX) Policy**

Chair: Masahiro KURODA

1. The Creation of Policy Options of Science, Technology and Innovation Policy  
by *Masahiro KURODA, YASUSHI HARA, Michael C. HUANG*
2. Resource Logistics as a Support Tool of Science, Technology and Innovation Policy Decision  
by *Kazuyo MATSUBAE, Tetsuya Nagasaka, Kenichi NAKAJIMA, Keisuke NANSAI*
3. A General Equilibrium Approach to Nepal Earthquake Recovery Policy with Renewable Energy Implementation  
by *Michael C. HUANG, Damaru Ballabha Paudel*

● Location: **Venue B: B103**

Topic: **514B Structural Decomposition Analysis**

Chair: Michael L LAHR

1. Assessment of CO2 Emissions Change in Eastern Asia: A Multi-Regional Structural Decomposition Approach  
by *An-yi CHIN, Hao-chuan YANG*
2. Changes in the Brazilian Productive Structure and Economic Growth During the Great Recession  
by *Carolina T. BALTAR*
3. Evidence of energy efficiency improvements in Thailand's manufacturing and transport sectors using structural decomposition analysis  
by *Tharinya SUPASA, Shih-mo LIN*
4. Structural Decomposition and Shift-Share Analyses: Let the Parallels Converge  
by *Michael L LAHR, Erik DIETZENBACHER*

● Location: **Venue C: B106**

Topic: **514C CGE/econometric IO Modelling (1)**

Chair: Jae-Un PARK

1. Unconventional monetary policy expansion: the economic impact through a dynamic CGE model  
by *Francesca SEVERINI, Clio CIASCHINI, Rosita PRETAROLI, Claudio SOCCI*
2. General Equilibrium Analysis of Energy Development Scenarios: the Case of Lithuania  
by *Vidas LEKAVICIUS*
3. Climate policy design to preserve the competitiveness of the French industry with hybrid input-output tables  
by *Gaëlle LE TREUT*

4. Temporal and spatial distribution of global mitigation costs: INDC role and generation equity  
by *Jingyu LIU, Shinichiro FUJIMORI*

● Location: **Venue D: B109**

Topic: **514D Special session: Korean Input-Output Tables: Practical Viewpoints**

Chair: Sang Yul SHIM

1. The Valuation of Transactions and the Treatment of Scrap in Korean Input-Output Tables  
by *Moonhee LEE*
2. The Past, the Present and the Future of Korean Input-Output Tables  
by *TaeHyun Kwon*
3. Compilation and Analysis of Korean SME's Input-Output Table  
by *Youngho LEE*
4. The effects of external shocks on the Korean economy : CGE model-based analysis  
by *Hyeok LEE, Yong Kyun KIM*

● Location: **Venue E: B110**

Topic: **514E Enviromental Analysis for Development (1)**

Chair: Makiko TSUKUI

1. Brazilian greenhouse gas emission reductions as an optimization problem: when the government chooses policy design  
by *Kenia B. DE SOUZA, Luiz Carlos Santana Ribeiro, Fernando Salgueiro Perobelli*
2. Making 'dirty money' out of exports: Estimating value-added and pollution exports in China  
by *Wencheng ZHANG, Rui WEI*
3. Using the Input-Output Model for Evaluating the Impact of Environmental Restrictions on the Economic Development of the Republic of Buryatia, Russia  
by *Zorikto B. DONDOKOV, Konstantin Pavlovich Dyrkheev*
4. China's virtual SO2 emission transfer embodied in interprovincial trade: a multiregional input-output analysis  
by *Qiaoling LIU*

● Location: **Venue F: B112**

Topic: **514F Environmental IO Modelling (1)**

Chair: Manfred LENZEN

1. Environmental impacts of capital formation  
by *Carl-Johan H. SÖDERSTEN, Edgar G. Hertwich, Richard WOOD*

2. Global biodiversity impacts of Dutch industries  
by *Harry C. WILTING, Mark van Oorschot*
3. The trade-offs between carbon and critical metal footprints of Japanese households  
by *Yosuke SHIGETOMI, Keisuke NANSAI, Susumu Tohno*
4. An analysis on Relation between Consumption Based Emissions and Tax  
by *Yoo-kyung YANG, Jong-soo LIM, Yong Gun Kim*

● Location: **Venue W: 101**

Topic: **514W Special session: Global Production Networks: Theory and Empirics (1)**

Chair: Bart LOS

1. Characterizing Global and Regional Value Chains  
by *Xinding YU, Zhi Wang, Shang-jin WEI, Kunfu ZHU*
2. Offshoring and the Functional Structure of Labour Demand in Advanced Economies  
by *Gaaitzen DE VRIES*
3. The Impact of Contract Enforcement Costs on Outsourcing and Aggregate Productivity  
by *Johannes BOEHM*
4. The Global Production Line Position of Chinese Firms  
by *Davin CHOR, Kalina Manova, Zhihong YU*

● Location: **Venue X: 110**

Topic: **514X Special session: Economic Implications of Transpacific Partnership Agreement (TPP)**

Chair: Kakali MUKHOPADHYAY

1. The Impact of TPP on selected ASEAN Economies  
by *Paramita DASGUPTA, Kakali MUKHOPADHYAY*
2. Economy wide impact of TPP: New Challenges to China  
by *Chandrima SIKDAR, Kakali MUKHOPADHYAY*
3. The Impact of Trans-Pacific Partnership agreement on the Canadian economy  
by *Kakali MUKHOPADHYAY, PAUL J. THOMASSIN*
4. TPP Agreement and its Implication on Pakistan Economy- A CGE Approach  
by *Muhammad Aamir KHAN, Kakali MUKHOPADHYAY, Naseeb ZADA*

● Location: **Venue Y: 113**

Topic: **514Y Energy IO Modelling (1)**

Chair: Klaus HUBACEK

1. Tracing and Quantifying Influences of Fossil Fuels in Thailand's Economic Structure Using Multiplier and Structural Path Analysis  
by *Nattapong PUTTANAPONG*
2. Energy Balance in India's International Trade: An Input-Output Based Analysis  
by *Anjali TANDON, Shahid Ahmed*
3. Applying Multi-Regional Input-Output Analysis to Evaluate the Impact of Indirect Energy Consumption on Energy Security  
by *Hao-chuan YANG, An-yi CHIN*
4. Towards a better understanding of consumption-based energy accounts: a comparison of MRIO results calculated from different energy extensions  
by *Anne OWEN, John Barrett, Lina Isabel Brand Correa, Marco Sakai*

● Location: **Venue Z: 115**

Topic: **514Z Special session: Compilation and Application of EXIOBASE 3 - a time series of highly detailed EE MRIOs**

Chair: Arnold Tukker

1. EXIOBASE 3 - Compilation and analysis of an EE MRIO time-series in current and constant prices  
by *Konstantin STADLER, Richard WOOD, Tatyana Bulavskaya, Carl-Johan H. SÖDERSTEN, Arjan de Koning, Arnold Tukker*
2. Decoupling consumption from our environmental pressures and impacts - a global Multi-Regional analysis with EXIOBASE  
by *Richard WOOD, Konstantin STADLER, Arnold Tukker*
3. EXIOBASE 3 - Construction and analysis of the world physical IOT  
by *Stefano MERCIAI, Jannick Schmidt*
4. Potentials for a circular economy - assessment with Exiobase V3  
by *Arnold Tukker, Arjan de Koning, Jannick Schmidt, Konstantin STADLER, Richard WOOD*

16:00 - 16:30 *Coffee Break*

**16:30 - 18:30 Parallel Session 2**

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- Location: **Venue A: B101**

Topic: **516A Financial Analysis**

Chair: Jiyoung KIM

1. Carbon Tax Policy under Renminbi Appreciation: a Financial CGE Model Analysis  
by *Jingyu LIU*
2. Convergence of Demand Pull into Cost Push Inflation in Indian Economy  
by *Shri PRAKASH, Sudhi Sharma*
3. Cost-push Inflation in Turkey: An Input-Output Analysis  
by *K. Ali AKKEMIK*

- Location: **Venue B: B103**

Topic: **516B Special session: The Use of Open, Semi-Closed and Closed IO Models; Theory and Application**

Chair: Albert E. STEENGE

1. The evolution of income inequality in Chicago: Test for the trickle-down effects using an input-output model  
by *Geoffrey J.D. HEWINGS, Kijin KIM*
2. The semi-closed input-output model and its application to income policy analysis  
by *Quanrun CHEN, Albert E. STEENGE*
3. Open, closed and semi-closed IO models; Theory and Application  
by *Albert E. STEENGE*
4. Youth unemployment in Europe: The North-South divide interpreted using a bi-regional demoeconomic model  
by *Andre CARRASCAL, Geoffrey J.D. HEWINGS*

- Location: **Venue C: B106**

Topic: **516C Special session: Exploring the Interface between IOA and CGE**

Chair: Sangwon SUH

1. On the Interface between input-output and CGE models  
by *Sangwon SUH*
2. Exploring the Relations between Input-Output Models and Computable General Equilibrium Models  
by *Faye DUCHIN*
3. Bridging Input-Output Analysis and Computable General Equilibrium modeling for Consequential LCA: Rectangular Choice-of-Technology model with price-elastic demand  
by *Arne KÄTELHÖN, Matthias LAMPE, Björn BAHL, André BARDOW, Sangwon SUH*
4. Incorporating behavioral aspects into input-output model  
by *Yasushi KONDO, Sangwon SUH*

- Location: **Venue D: B109**

Topic: **516D Trade in Value-added**

Chair: Jiemin GUO

1. Decomposition of gross exports into value-added exports at the bilateral level: an alternative gross exports accounting system  
by *Masaaki KUBONIWA*
2. Value Added Trade and Wage Stagnation in Taiwan  
by *Shih-mo LIN, Jin-Xu Lin, Kuei-Feng Chang*
3. An Input-Output Analysis of the U.S. Economy Over the Last Seven Decades  
by *Jiemin GUO, Erich H STRASSNER*
4. Singapore's Trade in Value Added: Importance and Implication of Information from the OCED-WTO TiVA Database  
by *Mun-Heng TOH*

- Location: **Venue E: B110**

Topic: **516E Enviromental Analysis for Development (2)**

Chair: Kazuyo MATSUBAE

1. Evaluating deep decarbonization impact on productivity and growth  
by *Andrey POLBIN, Oleg LUGOVOY, Vladimir POTASHNIKOV*
2. Reducing Carbon Emissions Via Structure Change Along A Consumption Turnpike: A Remesey-Tsukui-Leontief Dynamic Environment System Of China  
by *Xue FU*
3. Greenhouse gas emissions by agriculture in the Brazilian amazon  
by *Gisalda C. FILGUEIRAS, Denise IMORI, Joaquim J.M. GUILHOTO, Carlos R Azzoni*
4. The drivers of China's regional carbon emission change -a structural decomposition analysis from 1997 to 2007  
by *Ling YANG*

- Location: **Venue F: B112**

Topic: **516F Environmental IO Modelling (2)**

Chair: Kurt KRATENA

1. The Effects of Optimal Production Resource Reallocation on Carbon Footprint of Nations  
by *Hiroataka TAKAYABU, Shigemi Kagawa, Hidemichi FUJII, Shunsuke MANAGI*
2. Analyzing hotspots in environmental pressures of Swedish consumption using the Environmentally Extended Input Output database EXIOBASE 3.0  
by *Bertram F. DE BOER, Joao Rodrigues, Arnold Tukker*

3. The Carbon Footprint of European Households and Income Distribution  
by Kurt KRATENA
4. Using consumption-based emissions for policy analysis: the difference between average and marginal consumption-based emissions  
by Hector B. POLLITT, Richard WOOD, Umed TEMURSHOEV, Simone SALOTTI, José M. RUEDA-CANTUCHE, Eva S. ALEXANDRI, Annela ANGER-KRAAVI

● Location: **Venue W: 101**

Topic: **516W Special session: Global Production Networks: Theory and Empirics (2)**

Chair: Davin CHOR

1. Trade Costs, Global Value Chains and Economic Development  
by Yuan ZI
2. How Do GVCs Affect Shock Transmission across Borders?  
by Rudolfs BEMS
3. Non-Tariff Measures Trickling through Global Value Chains  
by Robert STEHRER
4. Fragmentation, Global Trade and Domestic Value-Added Ratio  
by Edwin L. LAI, Han Steffan QI

● Location: **Venue X: 110**

Topic: **516X Regional Trade Agreement and Trade Governance**

Chair: Hubert ESCAITH

1. NAFTA Trade in Value Added and its distribution, 1995-2011  
by Rosario CERVANTES, Jorge Ignacio Villaseñor - Becerra
2. The impact of services liberalization on GVC participation  
by Woori LEE
3. Pakistan's Entry into the Proposed Regional Comprehensive Economic Partnership (RCEP) - A CGE Approach  
by Naseeb ZADA, Muhammad Aamir KHAN, Kakali MUKHOPADHYAY
4. An Evaluation of Public Procurement Import Penetration: Liberalisation Effects of Preferential Trade Agreements for South Korea  
by Surabhi R. JOSHI, Sangeeta Khorana

- Location: **Venue Y: 113**

Topic: **516Y Energy IO Modelling (2)**

Chair: Sangwon SUH

1. Inter-Sector Inter-Region Energy Model: Estimating Investment Projects in Energy Sector of Russian Economy  
by *Nikita I. SUSLOV, Vladimir BUZULUTSKOV*
2. Shadow Prices of Energy in Economic Sectors of Iran  
by *Nooraddin SHARIFY*
3. Emissions trading in China: a partial transmission and indirect emissions input-output analysis  
by *Yan XIA*
4. Assessing the economic impacts of nuclear energy in Malaysia  
by *M. Yusof SAARI*

- Location: **Venue Z: 115**

Topic: **516Z IO Accounts and Statistics (1)**

Chair: José M. RUEDA-CANTUCHE

1. New Approach to Household Disaggregation in the System of National Accounts-2008 and Its Application in Input-Output Models  
by *Zorikto B. DONDOKOV*
2. The SUT-EURO and the SUT-RAS methods: extensions and fair comparisons  
by *José M. RUEDA-CANTUCHE, Juan Manuel Valderas Jaramillo, Elena Olmedo Fernández, Joerg Beutel*
3. Projecting Malaysia Input-Output Table Using Euro Method  
by *Norhayati SHUJA', Bee Wah Yap*
4. A Generalized Cross Entropy formulation for matrix balancing with both positive and negative entries  
by *Esteban FERNANDEZ-VAZQUEZ*

18:30 - 22:00 IIOA Economic Systems Research - Editorial Board Meeting (invitation only)

Location: Room 201

## Wed, 06/Jul/2016

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09:00 - 09:30 *Flash Session 1*

Location: **Auditorium**

09:30 - 10:30 *Keynote Speech 2*

Location: **Auditorium**

Klaus HUBACEK

Professor, Department of Geographical Sciences,  
University of Maryland, College Park

(Chair: Sangwon SUH, University of California, Santa Barbara)

10:30 - 11:00 *Coffee Break*

11:00 - 12:30 *IIOA General Assembly*  
Location: **Auditorium**

12:30 - 14:00 *Lunch*

14:00 - 18:00 *Excursion*

18:00 - 22:00 *Conference Dinner*

## Thu, 07/Jul/2016

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09:00 - 09:30 *Flash Session 2*  
Location: **Auditorium**

09:30 - 10:30 *Keynote Speech 3*  
Location: **Auditorium**

Sanjiv MAHAJAN

Head of International Strategy and Coordination, National Accounts Coordination Division, UK Office for National Statistics

(Chair: José M. RUEDA-CANTUCHE, JRC-IPTS, European Commission)

10:30 - 11:00 *Coffee Break*

## 11:00 - 12:30 Parallel Session 3

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- Location: **Venue A: B101**

Topic: **711A Special session: Flow of Funds Data and its Applications (1)**

Chair: Chihiro SAKURABA

1. Financial footprint of nations: A global analysis  
by *Yafei WANG*
2. Inter-industry Analysis in Flow of funds Accounts: Policy Evaluations and Computational Simulations  
by *Jiyoung KIM, Takuto SAKAMOTO*
3. Flow-of-Funds Analysis in Brazil: Applying Input-Output Analysis Methods  
by *Erika BURKOWSKI, Jiyoung KIM*

- Location: **Venue B: B103**

Topic: **711B Methodological Aspects of IO Analysis (1)**

Chair: Erik DIETZENBACHER

1. The Generalized Dynamic Input-Output Principle  
by *GUANGMING FENG*

2. The relationship between labor, output and the interindustry input structure: an evaluation of Schefold's explanation of empirical wage-profit curves  
by *Daniel TORRES*
3. The Linear Matrix-Valued Cost and Production Functions in the Rectangular and Square Input-Output Models  
by *Vladimir MOTORIN*

● Location: **Venue C: B106**

Topic: **711C Social Accounting Matrix**

Chair: Manuel A. CARDENETE

1. Economic impact assessment of food waste on European countries throughout Social Accounting Matrices  
by *Pilar CAMPOY-MUÑOZ, Manuel A. CARDENETE, María C. Delgado*
2. Analysis of a developing economy using linear multi-sectorial models based on a home production for home consumption Social Accounting Matrix: the Kenya case  
by *Alfredo J. MAINAR CAUSAPÉ, Pierre BOULANGER, Hasan DUDU, Emanuele FERRARI*
3. The Linkages between Real and Financial Sectors in the Indian Economy- A Financial Social Accounting Matrix Approach  
by *Chandrima SIKDAR*

● Location: **Venue D: B109**

Topic: **711D Productivity and Efficiency (1)**

Chair: Kazuhiko NISHIMURA

1. Productivity and Efficiency in the Handbook of Input-Output Analysis  
by *Thijs TEN RAA*
2. Determination of relative prices  
by *Akiko Nakajima*
3. Can the Value-Added-Rate Reflect the Quality of Economic Growth?  
by *Jin FAN*

● Location: **Venue E: B110**

Topic: **711E Special session: SIC-OECD-IDE/JETRO Joint special sessions on Development, Employment and Inequality (1)**

Chair: Yaxiong ZHANG

1. Divergent and Convergent Evolutions of Jobs and Value Added Contents in International Trade  
by *Norihiko YAMANO, Peter Horvát*
2. Income distribution, technological progress, and structure change  
by *Chen LIN*

3. GVCs-Linked Spillovers and Development: Firm-Level Evidence  
by *Davide RIGO*

- Location: **Venue F: B112**

Topic: **711F Inequality and Environment**

Chair: Kazuyo MATSUBAE

1. Regional Net-Impacts and Distributive Effects of Promoting Renewable Energies in Germany  
by *Johannes TÖBBEN*
2. Inequalities and household carbon footprint: the allocation of emissions embodied in investment  
by *Mònica SERRANO, Narasimha Desirazu Rao, Jordi Roca*
3. Does Income Inequality Increase Carbon Emissions? The cases of France and India  
by *Jihoon MIN, Narasimha Desirazu Rao*

- Location: **Venue W: 101**

Topic: **711W Special session: APEC TiVA: SUTs with Firm Heterogeneity (1)**

Chair: Jiemin GUO

1. The value added of introducing heterogeneous technologies in CGE models with implications on trade liberalization  
by *Jiansuo PEI, Cuihong YANG*
2. Extended Supply-Use Tables in Basic Prices with Firm Heterogeneity: A Proof of Concept for the United States  
by *Jiemin GUO, Erich H STRASSNER, James J Fetzer, Thomas F Howells, Zhi Wang*
3. Gaps in imported intermediate ratio between exporting and non-exporting firms in Japan  
by *Satoru HAGINO, Maki TOKOYAMA*

- Location: **Venue X: 110**

Topic: **711X Employment Analysis (1)**

Chair: Joaquim J.M. GUILHOTO

1. Accounting for technology, trade and final consumption in employment: an Input-Output decomposition  
by *Mathilde PAK, Aurélien POISSONNIER*
2. Impact of European integration on employment and value added creation  
by *Jozef KUBALA, Martin HUDCOVSKY*
3. Using labor footprints to investigate the self-sufficiency of labor in autarky  
by *Timon I. BOHN, Erik DIETZENBACHER*

- Location: **Venue Y: 113**

Topic: **711Y Special session: Analysing Environmental and Economic Consequences of Globalisation Using MRIO-SDA**

Chair: Rutger HOEKSTRA

1. What accounts for the growth in Carbon dioxide emissions in advanced and emerging economies? The role of Consumption, Technology and global supply chain trade  
by *Gaaitzen DE VRIES*
2. The dominance of the US and China in CO2 emissions growth through international sourcing  
by *Sangwon SUH, Rutger HOEKSTRA, Bernhard MICHEL*
3. The contribution of foreign sourcing to changes in factor shares: a global structural decomposition analysis  
by *Bernhard MICHEL, Rutger HOEKSTRA, Sangwon SUH*

- Location: **Venue Z: 115**

Topic: **711Z Special session: Compilation Issues of Supply, Use and Input-Output Tables**

Chair: Isabelle REMOND-TIEDREZ

1. The impact of the new ESA rules on Goods for Processing and Merchanting on the Belgian SUT and IO tables  
by *Bart M. J. VAN DEN CRUYCE*
2. Compilation of SUTs as an integral part of the National Accounts in the United Nations Handbook  
by *Sanjiv MAHAJAN*
3. Strategies for dissemination of input-output data and analyses. Comparison of Statistics Denmark and other national statistical institutes.  
by *Peter R. JENSEN*

12:30 - 14:00 *Lunch*

#### **14:00 - 16:00 Parallel Session 4**

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- Location: **Venue A: B101**

Topic: **714A Special session: Competitive and Complementary Economic Relationships between Korea and Japan**

Chair: Kiyoshi FUJIKAWA

1. Structural Propagation of Productivity Shocks: The Case of Korea and Japan  
by *Kazuhiko NISHIMURA, Jiyoung KIM, Satoshi NAKANO*
2. An empirical study on the trade network between Korea and Japan  
by *Kiyoshi FUJIKAWA, Bawoo Kim*
3. Development and Challenge of the Japan-Korea-China International Input-Output Table  
by *Mitsuo YAMADA, Zaizhe Wang, Kozo Miyagawa*



4. Cost Structure Comparison of Korea and Japan using Input-Output Tables  
by *Hyok Jung KIM, Jinmyon LEE*

- Location: **Venue B: B103**

Topic: **714B Methodological Aspects of IO Analysis (2)**

Chair: Albert E. STEENGE

1. The analytical complementarity of input-driven and output-driven models  
by *Aleix ALTIMIRAS-MARTIN*
2. Probabilistic, Bayesian updating of IOTs: application to WIOD  
by *Oleg LUGOVOY, Andrey POLBIN, Vladimir POTASHNIKOV*
3. The Hadamard-multiplicative GLS-based Model for Matrix Updating with a Solution Space of Reducible Dimension  
by *Vladimir MOTORIN*
4. Towards a Unified Economic Theory: A Classical-Keynesian GE Model  
by *Atef KHELIFI*

- Location: **Venue C: B106**

Topic: **714C Special session: Computable General Equilibrium Modeling for Policy Impact Analysis**

Chair: Jong H. KO

1. Analyzing Important Elasticity Parameters of a Korean CGE Model  
by *Kiho JEONG, Seongyoon HWANG, Dongsu LEE*
2. The Effects of China-US Free Trade Agreement (CHUSFTA)  
by *Yaxiong ZHANG*
3. The China-Korea Free Trade Agreement and Its Economic Impact in Explicit Consideration of Foreign Direct Investment: A CGE Approach  
by *Jong H. KO*
4. Introducing Carbon Taxes in Pakistan: A CGE Framework  
by *Zeshan MUHAMMAD, Jong H. KO*

- Location: **Venue D: B109**

Topic: **714D Productivity and Efficiency (2)**

Chair: Shigemi KAGAWA

1. Productivity Growth of Resource Accumulation in the Cities of Japan  
by *Shogo EGUCHI, Shigemi Kagawa*

2. Measurement of Total Labor Productivity Growth by using Eora MRIO and OECD WIOD  
by *Yanjuan DAI, Hiroshi IZUMI, Jie LI*
3. Labor productivity, technological change and functional income distribution in Brazil and Mexico  
by *Martín Carlos PUCHET ANYUL, Eduardo MORENO REYES, Kaio Vital, Manuel García Álvarez*
4. Key sectors in economic development: a perspective from input-output linkages and cross-sector misallocation  
by *Julio LEAL*

● Location: **Venue E: B110**

Topic: **714E Special session: Economic and Environmental Relationship in Asian-Pacific (1)**

Chair: Makiko TSUKUI

1. Constructing a time-series of physical input-output tables for Australia using RAS  
by *Jacob FRY, Timothy M Baynes, Manfred LENZEN, James West*
2. Water Demand Management and Adaptation to Climate Variability for the Pro-Growth Taiwan Economy  
by *Huey-Lin LEE*
3. Transnational Interregional Water Footprint Analysis in China and South Korea and Japan  
by *Taku ISHIRO*
4. Analysis of CO2 emissions embodied in the urban water use in China  
by *Qian ZHANG, Yuichi MORIGUCHI, Jun NAKATANI*

● Location: **Venue F: B112**

Topic: **714F Environmental IO Modelling (3)**

Chair: Rosa DUARTE

1. Carbon, Water and Land use accounting: Consumption vs Production perspectives  
by *Yousaf ALI*
2. Assessing the drivers of CO2 emissions: An hybrid MRIO-panel data analysis  
by *Ana SERRANO, Rosa DUARTE*
3. Swedish Footprints: Policy-Relevant Indicators for Consumption and Environment  
by *Richard WOOD, Viveka Palm*
4. Tracing CO2 Emissions Transfer in China's Domestic Value Chains  
by *Lin GUO, Jinjun XUE, Bo MENG*

● Location: **Venue W: 101**

Topic: **714W Special session: Input-Output Virtual Laboratories (1)**

Chair: Manfred LENZEN

1. An Input-Output Virtual Laboratory in practice – Development, uptake, application and impact of the first operational IELab  
by *Thomas O. WIEDMANN*
2. A global MRIO Lab – overview of concepts and architecture  
by *Yanyan XIAO, Arne GESCHKE, Muhammad Daaniyall ABD RAHMAN, Keiichiro Kanemoto, Manfred LENZEN*
3. New opportunities with EXIOlab – how virtual laboratories can help make IO-based research more timely and topical  
by *Rachel C. REYES, Tatyana Bulavskaya, Arne GESCHKE, Arjan de Koning, Hagen Schulte in den Baeumen, Konstantin STADLER, Arnold Tukker, Richard WOOD*
4. Updating the WIOD database in the virtual laboratory environment  
by *Muhammad Daaniyall ABD RAHMAN, Bart LOS, Arne GESCHKE, Yanyan XIAO, Keiichiro Kanemoto, Manfred LENZEN*

● Location: **Venue X: 110**

Topic: **714X Special session: Taxation**

Chair: Kurt KRATENA

1. Corporate income tax reform in the EU  
by *Maria Teresa ALVAREZ-MARTINEZ, Maria Gesualdo, Dimitrios Pontikakis, Jonathan Pycroft*
2. China's energy-water nexus: Spillover effect of energy and water policy  
by *Yuanchun ZHOU*
3. Taxing CO2 in production and consumption in Europe: The socio-economic and environmental impact of three tax reform options  
by *Kurt KRATENA, Mark Wolfgang Sommer*
4. GHG emissions' tax in Brazil using an input-output model  
by *Kenia B. DE SOUZA, Lucio Flavio da Silva Freitas, Luiz Carlos Santana Ribeiro, Geoffrey J.D. HEWINGS*

● Location: **Venue Y: 113**

Topic: **714Y Special session: Economic and Environmental Impacts of Renewable Energy Targets in Asia**

Chair: Kakali MUKHOPADHYAY

1. India's Renewable Energy target at 2030 : An Integrated CGE and I-O exercise  
by *Medhavinee N. WATVE, Kakali MUKHOPADHYAY*
2. Renewable Energy Goals in the Philippines at 2030  
by *Kakali MUKHOPADHYAY, Krista Danielle Sy Yu*

3. Impact of Proposed Energy Vision 2025 of Pakistan  
by *Muhammad Aamir KHAN, Kakali MUKHOPADHYAY*
4. Green energy & local economic development: Mapping impacts of solar scale up on Indian economy  
by *Surabhi R. JOSHI, Pritee Sharma*

● Location: **Venue Z: 115**

Topic: **714Z IO Accounts and Statistics (2)**

Chair: José M. RUEDA-CANTUCHE

1. The statistical structure of the US input matrices: 1947-2007  
by *Daniel TORRES, Jangho Yang*
2. Input-Occupancy-Output Economics  
by *Xinjian LIU*
3. Beyond Intermediates: The Role of Consumption and Commuting in the Construction of Local Input-Output Tables  
by *Kristinn HERMANSSON*
4. Measuring the economic relevance of sports - the sport satellite account (SSA) approach  
by *Gerd AHLERT, Iris an der Heiden*

16:00 - 16:30 *Coffee Break*

**16:30 - 18:00 Parallel Session 5**

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● Location: **Venue A: B101**

Topic: **716A Special session: Flow of Funds Data and its Applications (2)**

Chair: Chihiro SAKURABA

1. Modelling the interest payments and receipts of households and non-financial corporations in the euro area  
by *Louis BÉ DUC*
2. On the determinants of firms' surpluses and deficits  
by *Riccardo DE BONIS, Tatiana Cesaroni, Luigi INFANTE*
3. Public Debt in the Flow-of-Funds Perspective  
by *Masako TSUJIMURA, Kazusuke TSUJIMURA*

● Location: **Venue B: B103**

Topic: **716B Methodological Aspects of IO Analysis (3)**

Chair: Kazuhiko NISHIMURA

1. A quantity output-driven model with heterogeneous intermediate and final outputs  
by *Aleix ALTIMIRAS-MARTIN*

## 2. Time Lag Model for Input-Output Multiplier

by *Xinru LI*

## 3. A Quantitative Study on the Problem of Aggregation Bias in Input-Output Model

by *Zhengxi ZHENG, Ning CHANG, Mingfang ZHANG*● Location: **Venue C: B106**Topic: **716C Special session: Development of CGE Models for Transportation Policies**Chair: Euijune KIM

## 1. Impact of Railroad Investments on Regional Economies: an Approach of Spatial CGE Model with a Microsimulation Module of Railroad and Highway Networks

by *Yoojin Yi, Euijune KIM*

## 2. Contribution of Fiscal and Financial Options of Infrastructure Development on Income Distribution and Growth in Indonesia: an Application of Financial CGE Model

by *Euijune KIM, Yasir N. SAMUDRO*

## 3. Estimation of Dynamic Impact of Port Shutdown on Spatial Economies Using CGE Model with a Micro-Simulation Module of Seaport Activities

by *Min-Kyu LEE, Euijune KIM*● Location: **Venue D: B109**Topic: **716D Special session: Asian Trade with Latin America: Impact and Evolution**Chair: Marcel VAILLANT

## 1. Evolution and Impact on its economy of the Chilean trade with Asian countries.

by *Patricio AROCA, Nicolas GARRIDO*

## 2. Complementarity, substitutability and rivalry in trade between South East Asian and Latin-American countries

by *Marcel VAILLANT, Enrique GILLES*

## 3. Brazil and Mexico: Relative advantages of the trade with Asia vis a vis those with MERCOSUR and NAFTA

by *Martín Carlos PUCHET ANYUL, Kaio Vital, marta reis castilho*● Location: **Venue E: B110**Topic: **716E Special session: SIC-OECD-IDE/JETRO Joint special sessions on Development, Employment and Inequality (2)**Chair: Yaxiong ZHANG

## 1. Study on China's Medium and Long Term Energy Demand Forecasting Model System

by *Yaxiong ZHANG*

## 2. Skills and Activity Upgrading in Global Value Chains: Trends and Drivers for Asia

by *Quanrun CHEN, Gaaitzen DE VRIES*

3. Geographical concentration of supply chains and its implication for economic growth. An input-output approach.

by *Sofía JIMÉNEZ, Erik DIETZENBACHER, Rosa DUARTE, Julio Sánchez Chóliz*

● Location: **Venue F: B112**

Topic: **716F Technology and Environment**

Chair: Kirsten S. WIEBE

1. How existing technologies can contribute to reducing global CO2 emissions  
by *Hauke WARD, Armin Fügenschuh, Alexander Radebach, Jan Christoph Steckel, Ingmar Vierhaus*
2. Mapping global value chains of low carbon technologies diffusion from OECD to ASEAN countries using input-output analysis  
by *Ambiyah ABDULLAH*
3. The spatial distribution of consumption, production and pollution – A different perspective on technology transfer possibilities  
by *Kirsten S. WIEBE*

● Location: **Venue W: 101**

Topic: **716W Special session: APEC TiVA: SUTs with Firm Heterogeneity (2)**

Chair: Cuihong YANG

1. Do Exporters' and Non-exporters' Factor Inputs Differ? -- A Study Based on Employer-Employee Matched Data for Japan.  
by *Ivan DESEATNICOV, Kyoji Fukao, Koji ITO*
2. The role of Dutch SMEs in the Dutch economy: An analysis using an extended SUT  
by *Marcel VAN DEN BERG, Stephen Chong, Rutger HOEKSTRA, Oscar LEMMERS, Ilke Van Beveren, Ron Van der Wal, Piet Verbiest*
3. Compiling SUTs with firm heterogeneity: methods and challenges for the case of China  
by *Cuihong YANG, Rui WEI, Kunfu ZHU*

● Location: **Venue X: 110**

Topic: **716X Employment Analysis (2)**

Chair: Joaquim J.M. GUILHOTO

1. Technological Unemployment in Mexico. An Analysis of Structural Decomposition  
by *Brenda MURILLO VILLANUEVA, Martín Carlos PUCHET ANYUL*
2. How important is a structural change to employment development: a comparison of Germany vs. Slovakia  
by *Martin HUDCOVSKY, Jozef KUBALA*
3. Structural Change, labor market mismatch and Jobless Growth in Iran  
by *Hadi MOUSAVI-NIK, Sholeh BAGHERI PORMEHR, Afsaneh SHERKAT*

- Location: **Venue Y: 113**

Topic: **716Y Energy IO Modelling (3)**

Chair: Keisuke NANSAI

1. A Quasi-Input-Output model to evaluate emission factors of purchased electricity from interconnected grids  
by *Sai LIANG, Sai LIANG, Shen Qu, Hongxia Wang, Ming Xu*
2. Why there is large energy consumption variations between China and other countries: perspective from the final demand side  
by *Ce WANG, Hua LIAO*
3. Evaluation of the reform in Turkish electricity sector: A CGE Analysis  
by *K. Ali AKKEMIK, Erisa Dautaj Senerdem*

- Location: **Venue Z: 115**

Topic: **716Z Special session: International Trade Data Analysis in the Framework of Supply, Use and Input-Output Tables**

Chair: José M. RUEDA-CANTUCHE

1. Development of a quality adjusted labour productivity index in the European Union - Example of the employment embodied in European exports  
by *Isabelle REMOND-TIEDREZ, Antonio F. AMORES, José M. RUEDA-CANTUCHE*
2. European Full International and Global Accounts for Research in Input-Output Analysis  
by *José M. RUEDA-CANTUCHE, Isabelle REMOND-TIEDREZ*
3. Trade flows estimation within inter-country input-output compilation  
by *Pedro MARTINS FERREIRA*

18:00 - 22:00 *Young Researchers' "Get Together"*

## **Fri, 08/Jul/2016**

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### **09:00 - 10:30 Parallel Session 6**

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- Location: **Venue A: B101**

Topic: **809A Regional IO Modelling (1)**

Chair: Peter R. JENSEN

1. Refining the Application of the FLQ Formula for Estimating Regional Input Coefficients: An Empirical Study for South Korean Regions  
by *Anthony T. FLEGG, Timo TOHMO*
2. Research on Division of Labor of China's Domestic Value Chain from the Perspective of Global Value Chain  
by *Shantong LI, Jianwu HE*

3. Assessing the Accuracies of the Modified FLQ visa-viz CHARM in Generating RIOTs: Case Study of Gilan Province, Iran  
by *Ali A. Banouei, Sharareh Kavoosi, parisa mohajeri, narges sadeghi*

- Location: **Venue B: B103**

Topic: **809B Innovation and Technological Transfer**

Chair: Hubert ESCAITH

1. Growth, R&D expenditure and spillover effects: An input-output approach.  
by *Sofía JIMÉNEZ, Rosa DUARTE, Julio Sánchez Chóliz*
2. Measuring Supply-Side Inefficiency Spillovers in Global Value Chains  
by *Hubert ESCAITH, Sebastien Miroudot*
3. Technological Contents of China's Exports and Its Dynamic Changes----a New Measure based on global input-output model  
by *Hongfu NI, Jiechang Xia*

- Location: **Venue D: B109**

Topic: **809D Special session: Modeling Impacts of Structural Change in Emerging Economies (1)**

Chair: Anushree SINHA

1. Adult education, labour market outcomes and income distribution in India: An Analysis using a CGE model  
by *Ganesh Kumar ANAND, Runu Bhakta*
2. Alternative Growth Scenario and Nutritional Outcome using Recursive Dynamics CGE Approach : A Study of India  
by *Mythili GURUMURTHY*
3. Conceptualizing Gender CGEs with Intra-Household Bargaining  
by *Anushree SINHA*

- Location: **Venue E: B110**

Topic: **809E Special session: SIC-OECD-IDE/JETRO Joint special sessions on Development, Employment and Inequality (3)**

Chair: Norihiko YAMANO

1. Trade in value-added, employment and productivity  
by *Sebastien MIROUDOT*
2. Measuring Smile Curves in Global Value Chains  
by *Bo MENG, Ming Ye*
3. What matters in measuring domestic value added in exports by international or single country model  
by *Hongxia ZHANG, Geoffrey J.D. HEWINGS*



- Location: **Venue F: B112**

Topic: **809F Environmental IO Modelling (4)**

Chair: Yosuke SHIGETOMI

1. GINFORS (version 3): A global simulation model on the basis of WIOD and its application  
by *Gerd AHLERT, Martin Distelkamp, Mark Meyer*
2. A Review Assessment of Health and Economic Impacts of Global Heat Waves  
by *Yang XIA*
3. Correlation Analysis between Embodies Emissions and Revealed Comparative Advantage(RCA)  
by *Miran JANG*

- Location: **Venue W: 101**

Topic: **809W Methodological Aspects of MRIO Analysis**

Chair: Erik DIETZENBACHER

1. Generalized Global Unit Structures and Global Production/Value-added Networks: A World Input Output and Social Network Approach  
by *Tae-jin KIM, Jungu KANG, Seung-jin SHIM*
2. Hypothetical extractions from a global perspective  
by *Erik DIETZENBACHER, Bob van Burken*
3. Decomposition of Average Propagation Length  
by *Taiji HAGIWARA*

- Location: **Venue X: 110**

Topic: **809X IO Analysis for Policy-making (1)**

Chair: Jiemin GUO

1. Input Output Linkages and Agglomeration: Evidence from Turkey with Panel Data Analysis  
by *Necla AYAS, Aykut SARKGUNESİ*
2. The economic impact of the preservation and adaptive reuse of rail tracks, the high line in New York City: regional impact analysis and property value change analysis  
by *Jiyeon SONG*
3. A Web-Based Regional Economic Simulation Tool for U.S. Army Corps of Engineers' Civil Works Program  
by *Wen-huei CHANG, Yue Cui, Ed Mahoney*

- Location: **Venue Y: 113**

Topic: **809Y Tourism Industry Analysis**

Chair: Ana SERRANO

1. Comparing the tourism carbon footprint performance between Taiwan and Japan  
by *Ya-yen SUN*
2. Measuring Economic Impact of Tourism toward Poverty Alleviation in Indonesia: An Input-output Analysis  
by *Oscar TIKU*
3. Assessing the importance of international tourism for the Iran economy: A social accounting matrix approach  
by *Fatemeh BAZZAZAN, atefe farahani*

- Location: **Venue Z: 115**

Topic: **809Z International Trade (1)**

Chair: Pablo RUIZ NAPOLES

1. The Heckscher-Ohlin theorem and the open Mexican economy: a structural analysis  
by *Pablo RUIZ NAPOLES*
2. The Bias in measuring the industrial linkage between China and the rest of World  
by *Ruixiang LIU*
3. Good at goods, bad at services? The interaction between trade in goods and trade in services of China  
by *Yang FAN, Lianling YANG*

10:30 - 11:00 *Coffee Break*

### **11:00 - 12:30 Parallel Session 7**

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- Location: **Venue A: B101**

Topic: **811A Regional IO Modelling (2)**

Chair: Peter R. JENSEN

1. Cross-Hauling and Regional Input-Output Tables: Can CHARM Make Adequate Adjustments for Cross-Hauling?  
by *Anthony T. FLEGG, Yongming HUANG, Timo TOHMO*
2. Economic interaction, productive chains and formation of manufacturing clusters in the functional economic North Central region of Mexico: a case of regional input-output from the bottom-up approach  
by *Cristina VAZQUEZ, Normand E ASUAD, Krista Zafra*
3. Statistical assessment of the top-down and bottom-up approaches for the construction of regional input-output tables  
by *Normand E ASUAD*

- Location: **Venue B: B103**

Topic: **811B Disaster Analysis**

Chair: Yasuhide OKUYAMA

1. Impacts of Local Water Scarcity Risk on Global Trade Network  
by *Sai LIANG, Shen Qu, Zeqi Zhu, Ming Xu*
2. Intra- and Inter-regional Economic Effects of the Population Flow after the Great East Japan Earthquake  
by *Ryoma HASHIMOTO, Shigemi Kagawa*
3. A Hypothetical Supply Chain with the Disruption of Production Shock: From HEM to Hypothetical APL  
by *Michiya NOZAKI*

- Location: **Venue C: B106**

Topic: **811C CGE/econometric IO Modelling (2)**

Chair: Manuel A. CARDENETE

1. Fiscal policy for low income households and public budget constraint in Italy  
by *Irfan AHMED*
2. Identification of key sectors in a General Equilibrium Model: A comparative empirical analysis for Andalusian economy  
by *Jorge M. LÓPEZ ÁLVAREZ, Manuel A. CARDENETE*
3. Technology and Skill Upgrading Effects of Globalization: An Applied General Equilibrium Approach  
by *Jaewon JUNG*

- Location: **Venue D: B109**

Topic: **811D Special session: Modeling Impacts of Structural Change in Emerging Economies (2)**

Chair: Anushree SINHA

1. Carbon Footprints and Household Consumption Pattern in India: A SAM Based Analysis  
by *Radhika PIPLANI*
2. Structural Changes in the Indian Economy: An Input Output Multiplier Analysis  
by *Ganesh Kumar ANAND, Manoj K. PANDA*
3. Increasing women's access to newer opportunities: A multi-year Indian SAM analysis for women's work  
by *Avantika PRABHAKAR, Anushree SINHA*

- Location: **Venue E: B110**

Topic: **811E Special session: SIC-OECD-IDE/JETRO Joint special sessions on Development, Employment and Inequality (4)**

Chair: Norihiko YAMANO

1. Prospect of Economic Growth in China from the 13th FYP Period to 2030  
by *Shantong LI, Jianwu HE*
2. Comparative Study of Economic Structural Change and Growth Impetus —Based on 2007 and 2012 China input-output table  
by *Jianqin YUAN, Yaxiong ZHANG*
3. North-South-Divide: How developed nations depend on cheap labour and inequality abroad.  
by *Arne GESCHKE, Ali Alsamawi, Joy Murray, Manfred LENZEN*

- Location: **Venue F: B112**

Topic: **811F Network Analysis for Environment**

Chair: Thomas O. WIEDMANN

1. Identifying Air Pollution Clusters within Asian Supply Chain Networks  
by *Fumiya NAGASHIMA, Shigemi Kagawa, Keisuke NANSAI*
2. Analyzing Structural Changes in the CO2 Emission Clusters within Global Supply Chain Networks  
by *Shohei TOKITO, Shigemi Kagawa*
3. Identifying critical value chains in CO2, energy, material, monetary and employment consumption-based accounts  
by *Anne OWEN, John Barrett*

- Location: **Venue W: 101**

Topic: **811W MRIO Modelling and Database**

Chair: Kirsten S. WIEBE

1. A Local-Currency-Based Multi-Sectoral Model for Global Economic Analysis: The Data and Structure  
by *Takashi YANO, Tsubasa Shibata*
2. Brazilian States in Global Value Chains: Spatial Production Systems Interpreted by Feedback Loop Analysis  
by *Joaquim J.M. GUILHOTO, Geoffrey J.D. HEWINGS, Denise IMORI*
3. The OECD's approach to disaggregating industries in the inter-country input-output table  
by *Kirsten S. WIEBE, Peter Horvát, Norihiko YAMANO*

- Location: **Venue X: 110**

Topic: **811X IO Analysis for Policy-making (2)**

Chair: Kiho JEONG

1. Sectoral Linkages and Labour Productivity: Panel Data Analysis for Turkey  
by *Aykut SARKGUNESİ, Necla AYAS*
2. Estimation of Government Spending Multipliers for Russian Economy  
by *Alexander O. BARANOV*
3. Research on the Intermediate Consumption of Manufacturing Industry during Inserting into the Global Value Chain in Yangtze River Delta Area of China  
by *Xiaohui YUAN, yan ling HUA, Jin FAN*

- Location: **Venue Y: 113**

Topic: **811Y LCA and Industrial Ecology (1)**

Chair: Yasushi KONDO

1. On the Simultaneous Estimation of Physical and Monetary Commodity Flows  
by *Johannes TÖBBEN*
2. Development of Inter-industrial Metal Network with Input-Output based Material Flow Analysis  
by *Hajime OHNO, Wei-Qiang CHEN, Thomas Graedel, Philip NUSS*
3. The Environmental Consequences of Lifetime Extension of New and Used Cars: Japan's Case  
by *Yuya NAKAMOTO, Daisuke NISHIJIMA, Shigemi Kagawa*

- Location: **Venue Z: 115**

Topic: **811Z International Trade (2)**

Chair: Robert STEHRER

1. Accounting for dualistic production technologies in input-output analysis  
by *Chakrin UTIT, M. Yusof SAARI, Nur adilah HAMID*
2. Economic Shocks and Changes in Global Production Structure: Evidence from Annual Inter Country Input-Output Tables for 1995-2011  
by *Yoshihiro HASHIGUCHI, Colin WEBB, Norihiko YAMANO*
3. Measuring Industrial Upgrading in Global Value Chains: A Latent Variables Approach  
by *Kailan TIAN, Erik DIETZENBACHER*

12:30 - 14:00 *Lunch*

**14:00 - 16:00 Parallel Session 8**

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- Location: **Venue A: B101**

Topic: **814A Regional IO Modelling (3)**

Chair: Sanjiv MAHAJAN

1. Expenditure and Displacement Impacts of Students' Consumption: Interregional Input-Output Analysis of a City-Region  
by *Kristinn HERMANNSSON*
2. Spatial Analysis Of Regional Input Output Of The Automotive Supply Chain And Its Impact On Economic Development In The Economic Functional Region Northeast Mexico.  
by *Marcos N. MAYA, José M. SANCHEZ, Normand Asuad Sanen*
3. Exploratory analysis of the use of a multi-regional Input-Output Matrix for the analysis of the main urban impacts of the new Mexico City International Airport.  
by *Karina GARDUÑO, José M. SANCHEZ, Normand Asuad Sanen*
4. Estimating Trade in a Regional Input-Output Table  
by *Johannes BROECKER, Johannes BURMEISTER*

- Location: **Venue B: B103**

Topic: **814B Special session: Disaster Impact Analysis**

Chair: Yasuhide OKUYAMA

1. Investigation on CGE Models for Disaster Impact Analysis: Implications form the Case Study of the 2011 Great East Japan Earthquake  
by *Yoshio KAJITANI, Hirokazu Tatano*
2. Economic Impact Analysis of Natural Disasters: CGE Modeling Approach  
by *Masato YAMAZAKI, Atsushi KOIKE, Yoshinori SONE, Hirokazu Tatano*
3. A Framework of Economic Loss Estimation due to Transportation Network Disruptions  
by *Satoshi TSUCHIYA, Hirokazu Tatano*
4. Disaster Impact Analysis: Environmental Considerations?  
by *Yasuhide OKUYAMA*

- Location: **Venue C: B106**

Topic: **814C Special session:Economic Impacts of Specific Foods: Kimchi, Tsukemono, Tomato**

Chair: Jinmyon LEE

1. Separating and Reflecting Technical Change into Tomato Sector in Korean IO  
by *Kiho JEONG, Dongsu LEE*
2. Food Choices, Health and Environment: Effects of the Dynamics of Chinese Diet  
by *Haiyan Zhang, Michael L LAHR*

3. Compilation and Analysis of Input-Output Table for Korean Kimchi and its Related Commodities  
by *Youngho LEE*
4. Economic effects of Japanese pickles industry  
by *Kiyoshi FUJIKAWA, Mariko Makita*

● Location: **Venue D: B109**

Topic: **814D Region/country-specific Analysis**

Chair: Bo MENG

1. Import Dependency of Turkish Economy and Major Determinants in Sectoral Level: An Input Output Analysis  
by *Necla AYAS*
2. A method to identify key sectors and their feedback loops for a certain industry in one economy and its application in the evaluation of the role of real estate industry in Chicago  
by *Xiuli LIU, Geoffrey J.D. HEWINGS*
3. Industrial agglomeration and regional economic development: the case of China  
by *Rui WEI, Wencheng ZHANG*
4. Industrial Structural Changes of Beijing Economy□A Field of Influence Approach  
by *Xinjian LIU*

● Location: **Venue E: B110**

Topic: **814E Special session: Economic and Environmental Relationship in Asian-Pacific (2)**

Chair: Huey-Lin LEE

1. Waste generation embodied in international trade between China and Japan : China-Japan WIO Analysis  
by *Makiko TSUKUI, Chen LIN*
2. Balancing Economic and Environmental Goals for Sustainable Development: An Environmentally Extended Input-Output Analysis of India  
by *Huey-Lin LEE, Anindita GANDHI*
3. Chinese Environmentally Extended Input-Output (CEEIO) Database  
by *Sai LIANG, Xiaoping Jia, Shen Qu, Anthony shun Fung Chiu, Ming Xu*
4. Prediction of economic impact brought about by the increase of non-metallic mineral wastes in Japan  
by *Ryoji HASEGAWA, Hirofumi Nakayama, Takayuki Shimaoka*

- Location: **Venue F: B112**

Topic: **814F Trade and Environment**

Chair: Pablo RUIZ NAPOLES

1. Emissions in exports versus emissions replaced by imports: testing the testing of hypotheses  
by *Bingqian YAN, Erik DIETZENBACHER*
2. Revisiting the Long-range Transboundary Black Carbon: The Role of International Trade and Atmospheric Transport  
by *Jing MENG*
3. Dynamics of China's pollution terms of trade and their determinants  
by *Yuwan DUAN, Xuemei Jiang*
4. Measuring and comparing the international carbon trade efficiency of major countries  
by *Jingli FAN*

- Location: **Venue W: 101**

Topic: **814W Special session: Input-Output Virtual Laboratories (2)**

Chair: Thomas O. WIEDMANN

1. Biofuel Assessments in the Australian IELab  
by *Arunima MALIK, Arne GESCHKE, Manfred LENZEN*
2. Exploring transnational city carbon footprint networks with the Industrial Ecology Virtual Laboratory  
by *Guangwu CHEN, Yafei WANG, Thomas O. WIEDMANN*
3. Multi-regional sub-national MRIOs for policy making in China: Using the Chinese MRIO Lab  
by *Yafei WANG*
4. A New Subnational MRIO Table for Indonesia  
by *Futu FATURAY*

- Location: **Venue X: 110**

Topic: **814X Structural Change and Dynamics**

Chair: Cuihong YANG

1. A Cross-country Analysis of Material and Energy Implications of Structural Change  
by *Kayoko SHIRONITTA, Shigemi Kagawa, Keisuke NANSAI, Sangwon SUH*
2. Estimating the Technological Factor's Contribution in Economic Dynamics  
by *Alsu SAYAPOVA, SHIROV Alexander, Nikita Vasilyevich NEZHESKIY*
3. Growth and structural change of the Chinese economy prior to reform  
by *Chen LIN*



4. The Digital Transformation of Manufacturing Industry - A Scenario Analysis for Germany  
by *Anke M. MOENNIG, Marc Ingo Wolter*

● Location: **Venue Y: 113**

Topic: **814Y LCA and Industrial Ecology (2)**

Chair: Yasushi KONDO

1. Many a mickle makes a muckle: truncation error in lifecycle assessment  
by *Hauke WARD, Jan Christoph Minx, Jan Christoph Steckel, Leonie Wenz*
2. Net emission transfer of toxic chemical substances: Empirical study for U.S. manufacturing industries  
by *Hidemichi FUJII, Shunsuke OKAMOTO, Shigemi Kagawa, Sangwon SUH, Shunsuke MANAGI*
3. Integrated hybrid MRIO analysis of biofuels production in Spain: climate change and socio-economic effects  
by *Cristina DE LA RUA, Yolanda LECHON*
4. Product Lifetime, Energy Efficiency and The Environment: A Case Study of Air Conditioner in Japan  
by *Daisuke NISHIJIMA, Shigemi Kagawa*

● Location: **Venue Z: 115**

Topic: **814Z International Trade (3)**

Chair: Bart LOS

1. Counting borders in global value chains  
by *Kirill MURADOV*
2. The impact of real effective exchange rate of RMB on China's export and value-added export  
by *Yishu KONG, Xinru LI*
3. Drivers of the Malaysian economy under dualistic trade structures  
by *Nur adilah HAMID, M. Yusof SAARI, Azman HASSAN, Chakrin UTIT*
4. Peak Trade? An Anatomy of the Recent Global Trade Slowdown  
by *Bart LOS, Robert STEHRER, Gaaitzen DE VRIES, Marcel Timmer*

16:00 - 16:30 *Coffee Break*

16:30 - 17:00 *Closing Session*

Location: **Auditorium**