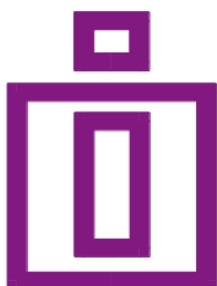


# 19th International Input-Output Conference

*CONFERENCE PROGRAM*

11/Jun/2011 - 17/Jun/2011



**International Input-Output Association**

Vienna, AUSTRIA

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

## PROGRAM OVERVIEW

Time	Sat, 11/Jun/2011	Sun, 12/Jun/2011	Mon, 13/Jun/2011	Tue, 14/Jun/2011	Wed, 15/Jun/2011	Thu, 16/Jun/2011	Fri, 17/Jun/2011
08:30 - 09:00		International School of Input-Output Analysis (Session 1)	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
09:00 - 09:30			Opening ceremony and keynote: Paul Cheung	Keynotes: Bart Los and Sangwon Suh	General Assembly	Parallel Session 7	Parallel Session 10
09:30 - 10:00							
10:00 - 10:30			Coffee Break				
10:30 - 11:00		Coffee break	Parallel Session 1	Coffee Break	Parallel Session 4	Coffee Break	Coffee Break
11:00 - 11:30							
11:30 - 12:00		International School of Input-Output Analysis (Session2)	Parallel Session 1	Parallel Session 4	Parallel Session 8	Parallel Session 11	
12:00 - 12:30							
12:30 - 13:00		Lunch	Lunch	Lunch	Practical work with EXIOBASE (to register email Arnold Tukker (arnold.tukker(at)no.nl)	Lunch	Lunch
13:00 - 13:30							
13:30 - 14:00		International School of Input-Output Analysis (Session 3)	Parallel Session 2	Parallel Session 5	Parallel Session 9	Parallel Session 12	
14:00 - 14:30							
14:30 - 15:00		Coffee break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
15:00 - 15:30							
15:30 - 16:00		International School of Input-Output Analysis (Session 4)	Parallel Session 3	Parallel Session 6	Plenary talks by fellows Almon, Miller and Pyatt	Plenary talk by Leontief Award Winner	
16:00 - 16:30							
16:30 - 17:00		Closure Session of the International	Council meeting (invitation only)	ESR meeting (invitation only)	Reception		
17:00 - 17:30							
17:30 - 18:00		Opening and Welcome Reception for the International School of Input-Output Analysis	Reception for International Input-Output Conference	Dinner	Dinner		
18:00 - 18:30							
18:30 - 19:00							
19:00 - 19:30							
19:30 - 20:00							
20:00 - 20:30							
20:30 - 21:00							

## SESSION PLAN

### Sat, 11/Jun/2011

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18:30 - 20:00 *Opening and Welcome Reception for the International School of Input-Output Analysis*

### Sun, 12/Jun/2011

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#### 09:30 - 11:00 International School of Input-Output Analysis (Session 1)

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- Location: **Kennedy Room**

Topic: **Multi-Regional Input-Output Analysis**

Chair: Joy Murray (coord.)

1. Module MRIO: Session 1

by Joy Murray, Arne Geschke, Keiichiro Kanemoto, Daniel Moran

- Location: **Madison Room East**

Topic: **Supply and Use Tables and links to Symmetric Input-Output Tables**

Chair: Sanjiv Mahajan

1. Module SIOT: Session 1

by Sanjiv Mahajan

- Location: **Madison Room North**

Topic: **Construction of Social Accounting Matrices**

Chair: Susana Santos

1. Module SAM: Session 1

by Susana Santos

11:00 - 11:30 *Coffee break*

#### 11:30 - 13:00 International School of Input-Output Analysis (Session2)

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- Location: **Kennedy Room**

Topic: **Multi-Regional input-Output Analysis**

Chair: Joy Murray (coord.)

1. Module MRIO: Session 2

by Joy Murray, Arne Geschke, Keiichiro Kanemoto, Daniel Moran

- Location: **Madison Room East**  
Topic: **Supply and Use Tables and links to Symmetric Input-Output Tables**  
Chair: Sanjiv Mahajan

1. Module SIOT: Session 2  
by *Sanjiv Mahajan*

- Location: **Madison Room North**  
Topic: **Construction of Social Accounting Matrices**  
Chair: Susana Santos

1. Module SAM: Session 2  
by *Susana Santos*

13:00 - 14:00 *Lunch*

**14:00 - 15:30 International School of Input-Output Analysis (Session 3)**

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- Location: **Kennedy Room**  
Topic: **Multi-Regional Input-Output Analysis**  
Chair: Joy Murray (coord.)

1. Module MRIO: Session 3  
by *Joy Murray, Arne Geschke, Keiichiro Kanemoto, Daniel Moran*

- Location: **Madison Room East**  
Topic: **Supply and Use Tables and links to Symmetric Input-Output Tables**  
Chair: Sanjiv Mahajan

1. Module SIOT: Session 3  
by *Sanjiv Mahajan*

- Location: **Madison Room North**  
Topic: **Construction of Social Accounting Matrices**  
Chair: Susana Santos

1. Module SAM: Session 3  
by *Susana Santos*

15:30 - 16:00 *Coffee break*

**16:00 - 17:30 International School of Input-Output Analysis (Session 4)**

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- Location: **Kennedy Room**  
Topic: **Multi-Regional Input-Output Analysis**  
Chair: Joy Murray (coord.)

1. Module MRIO: Session 4  
by *Joy Murray, Arne Geschke, Keiichiro Kanemoto, Daniel Moran*

- Location: **Madison Room East**  
Topic: **Supply and Use Tables and links to Symmetric Input-Output Tables**  
Chair: Sanjiv Mahajan

1. Module SIOT: Session 4  
by *Sanjiv Mahajan*

- Location: **Madison Room North**  
Topic: **Construction of Social Accounting Matrices**  
Chair: Susana Santos

1. Module SAM: Session 4  
by *Susana Santos*

17:30 - 18:00    *Closure Session of the International School of IOA by the President of the IIOA*

18:00 - 21:00    *Reception for International Input-Output Conference*

## **Mon, 13/Jun/2011**

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08:30 - 09:00    *Coffee Break*

09:00 - 10:30    *Opening ceremony and keynote: Paul Cheung*

10:30 - 11:00    *Coffee Break*

### **11:00 - 13:00    Parallel Session 1**

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- Location: **Jefferson Room (part of the Ballroom)**  
Topic: **Organized Session: Rents and Physical Resource Constraints in Input-Output Models**  
Chair: Bert Steenge and Faye Duchin

1. The Concept of Rent in Economics  
by *Christian Lager*
2. On Rents in Input-Output Modeling  
by *Albert Steenge*

3. A General Framework for Determining Factor Use, Factor Rents, and Goods Prices in a Multisectoral Model  
by *Faye Duchin*
4. The Wage as Rent: The Factor-Price Frontier revisited  
by *Christian Lager*

- Location: **Kennedy Room**

Topic: **Drivers of CO2 emissions**

Chair: Everlan Elias Montibeler

1. Downstream emissions and the carbon trade balance between world regions  
by *Alexandra Penedo de Sousa Marques, Tiago Domingos, Joao Rodrigues*
2. Mapping flows of embodied emissions through the global production system – a quantitative investigation using a global multi-regional input-output model  
by *Andrew Skelton, Dabo Guan*
3. Oil exploitation regulation framework and effects in the sector and its relation to the whole economy: the case of Brazil's 1997 change  
by *Everlan Elias Montibeler*

- Location: **Madison Room East**

Topic: **Issues in CGE and econometric modelling**

Chair: Manuel Alejandro Flores Cardenete

1. A critical review of the literature on integrated macroeconometric & input-output models  
by *Partha Pratim Ghosh, Debesh Chakraborty, Arpita Ghose*
2. An Integrated Keynes-Leontief "Macro-Econometric and Input-Output Model"  
by *Zorikto Bato-Dugarovich Dondokov*
3. Revisiting the Phillips curve: A CGE-MCDM approach  
by *CARMEN LIMA, Francisco Javier André, Manuel Alejandro Cardenete Flores*

- Location: **Madison Room North**

Topic: **Analyses of specific economic sectors**

Chair: Andre Carrascal

1. A positive observation of long-term knowledge industries change in France and Japan.  
by *Yukinori Nakano*
2. A Study of the Relationship Between Cultural Industry and Economic Growth in Guangdong Province  
by *Jianwen Yuan*
3. An Economic Analysis of the Philippine Tourism Industry  
by *Krista Danielle Sy Yu*

4. COMPARING THE ECONOMIC IMPACT OF TOURISM USING DIFFERENT INPUT OUTPUT MODELS. AN APPLICATION FOR GALICIA.

by *Andre Carrascal*

● Location: **Madison Room West**

Topic: **Foundations of the Supply-Use model**

Chair: Jiemin Guo

1. An approach for the compilation of China 2005 Supply and Use Tables

by *Shuchang Qi, Hong JIN, xianxin ZENG*

2. Balanced System of U.S. National Accounts and Structural Distribution of the Aggregate Statistical Discrepancy

by *Baoline Chen*

3. Compilation of symmetric input-output tables with a minimum of assumptions.

by *Bent Thage*

4. The Experience of Compiling Chinese Non-competitive Input-output Tables

by *Shuchang Qi, Jie CHEN*

● Location: **Washington Room (part of the Ballroom)**

Topic: **Interregional analysis**

Chair: JiYoung Park

1. Accounting foundations for interregional commodity-by-industry input-output models

by *Randall Jackson, Walter Schwarm*

2. Foreign Trade and Inter-Province Trade of China

by *zhang shaojun, Shantong Li*

3. RHOMOLO: A Dynamic General Equilibrium Modelling Approach to the Evaluation of the EU's Regional Policies

by *d'Artis Kanacs, Andries Brandsma*

4. Constructing a Flexible National Interstate Economic Model (FlexNIEMO)

by *JIYOUNG PARK, Peter Gordon, James Elliott Moore, Harry Ward Richardson*

13:00 - 14:00 *Lunch*

**14:00 - 15:30 Parallel Session 2**

- Location: **Jefferson Room (part of the Ballroom)**

Topic: **Energy consumption and CO2 emissions**

Chair: Hongtao Liu

1. Comparison of direct and indirect energy consumption between China and the United States  
by *Hongtao Liu, Joaquim Jose Martins Guilhoto, Karen R. Polenske, Youmin Xi*
2. water and energy nexus in energy production: assessing water consumption and CO2 emissions of wind power in China  
by *Xin Li, Klaus Hubacek, Yim Ling Siu, Kuishuang Feng*
3. Impact of Removing Energy Subsidy on the Environment Improvement (Air Pollution)  
by *Fatemeh Bazzazan*

- Location: **Kennedy Room**

Topic: **LCA application**

Chair: Chen Lin

1. A Life Cycle Assessment of printed matter using EE-IO data: Opportunities and limitations of a combined approach  
by *An Vercalsteren, Evelien Dils, Theo Geerken*
2. Forecasting replacement demand of durable goods and the induced life cycle emissions: a dynamic waste input-output approach  
by *Shigemi Kagawa, Shinichiro Nakamura*
3. An Input Output Based Method for Considering the Risk of Man-made Disaster in Life Cycle Assessment  
by *Chen Lin*

- Location: **Madison Room East**

Topic: **Analyzing productivity**

Chair: Kathryn Gail Marshall

1. Direct and indirect productivity gains from offshoring  
by *Bernhard Michel*
2. Efficiency analysis of a multisectoral economic system  
by *Mikulas Luptacik*
3. International Productivity and Factor Price Comparisons  
by *Kathryn Gail Marshall*



- Location: **Madison Room North**

Topic: **CGE applications**

Chair: John Robert Madden

1. The Economic and Environmental Effects of Border Adjustment Measures: A Multi-Region CGE Analysis for Japan  
by *Xin Zhou, Satoshi Kojima, Takashi Yano*
2. The Prospects of China's Economic Development in 2030-Based on the DRC-CGE Model  
by *Shantong Li, Jianwu He, Zhaoyuan Xu*
3. Interregional dispersion of impacts from regional economic shocks: A CGE explanation  
by *John Robert Madden, James Giesecke*

- Location: **Madison Room West**

Topic: **National accounts**

Chair: Igor Kim

1. Correlations among direct input coefficients and its applications to update IO tables: a empirical investigation  
by *Xu Jian, Xiaolin Lu*
2. Development of Input-Output Accounts within National Accounts: Compilation and analysis of tax matrices within the input-output accounts for Slovenia  
by *Janja Kalin*
3. Estimation of Russian constant-price input-output tables according to NACE and CPA  
by *Elena Alekseevna Staritsyna, Eduard Filaretovich Baranov, Igor Alexandrovich Kim*

- Location: **Washington Room (part of the Ballroom)**

Topic: **Modelling jobs and data issues**

Chair: Bart Maria Jan Van den Cruyce

1. Jobless growth with imported inputs: The Turkish case  
by *Umit Senesen, Gulay Gunluk-Senesen, Zeynep Yilmaz*
2. Offshoring and the Skill Structure of Labour Demand in Belgium  
by *Bart Hertveldt, Bernhard Michel*
3. The homogenisation of detailed employment data  
by *Bart Maria Jan Van den Cruyce*

15:30 - 16:00 *Coffee Break*

**16:00 - 17:30 Parallel Session 3**

- Location: **Jefferson Room (part of the Ballroom)**

Topic: **Some important issues regarding the matrix**

Chair: Tobias Heinrich Kronenberg

1. Matrix adjustment with non reliable margins: a Generalized Cross Entropy approach  
by *Esteban Fernandez Vazquez, Geoffrey J.D. Hewings*
2. On The Intertemporal Stability of Bridge Matrix Coefficients  
by *Tobias Heinrich Kronenberg*
3. Using input-output model with fuzzy parameteres for analysis of sectoral structure of Ukranian industrial region  
by *Ganna Makarkina, Tamara Merkulova*

- Location: **Kennedy Room**

Topic: **Applications of water IO**

Chair: Faye Duchin

1. Analysis on virtual water cycle of economy in Zhangye City using regional input-output model  
by *Ma Zhong*
2. Policies and Technologies for a Sustainable Use of Water in Mexico: A Scenario Analysis  
by *Carlos A Lopez-Morales, Faye Duchin*
3. Structural Decomposition Analysis of water uses in Spain  
by *Ignacio Cazcarro, Rosa Duarte, Julio Sánchez Chóliz*

- Location: **Madison Room East**

Topic: **Carbon footprinting and trade**

Chair: Shigemi Kagawa

1. Impact of China's Domestic Carbon Emission Trading Scheme  
by *Jianwu He, Shantong Li*
2. Regional carbon footprint and interregional transfer of carbon emission in China  
by *YAN WANG, Minjun Shi*
3. The Carbon Footprint and Carbon Leakage of Prefectures: A Case Study of Japan  
by *Shigemi Kagawa, Ryoji Hasegawa, Makiko Tsukui*

- Location: **Madison Room North**

Topic: **Organized session: WIOD 1: Introduction**

Chair: Erik Dietzenbacher

1. The World Input-Output Database (WIOD): Introduction and Selected Database Construction Issues  
by *Bart Los, Abdul Azeez Erumban, Robert Stehrer, Marcel Timmer, Gaaitzen de Vries*

2. Decomposing trade in value added  
by *Robert Stehrer, Neil Foster, Gaaitzen de Vries*
3. Making Room for China: a Global Value Chain Approach  
by *Marcel Timmer, Bart Los*

- Location: **Madison Room West**

Topic: **Organized session: National and Consolidated Supply-Use and Input-Output Tables**

Chair: José M. Rueda-Cantuche

1. A consolidated European Union and euro area supply-use system and input-output tables  
by *Isabelle Rémond-Tiedrez, Joerg Beutel, Maaïke Corinne Bouwmeester, Jan Oosterhaven, José Manuel Rueda-Cantuche*
2. Supply and Use Tables at Basic Prices for the Czech Republic  
by *Jaroslav Sixta*
3. Supply, use and input output tables in the Netherlands  
by *Piet Verbiest*

17:30 - 19:00 *Council meeting (invitation only)*

19:00 - 21:00 *Dinner*

## **Tue, 14/Jun/2011**

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08:30 - 09:00 *Coffee Break*

09:00 - 11:00 *Keynotes: Bart Los and Sangwon Suh*

11:00 - 11:30 *Coffee Break*

### **11:30 - 13:00 Parallel Session 4**

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- Location: **Jefferson Room (part of the Ballroom)**

Topic: **Organized session: Estimation of the Carbon Footprint for the EU27**

Chair: Remond-Tiedrez, Isabelle

1. Creating consolidated EU27 Supply-Use and Input-Output Tables, adding environmental extensions (air emissions), and conducting Leontieftype modelling to approximate carbon and other 'footprints' of EU27 consumption for EUROSTAT  
by *Arnold Tukker*
2. Treatment of the Intra-EU Trade Flows to Obtain Consolidated European Union and Euro Area Use Tables  
by *Maaïke Corinne Bouwmeester, Jan Oosterhaven, José Manuel Rueda-Cantuche*

3. Dynamic analysis of the official EU27 IOT and its environmental extensions  
by *Reinout Heijungs, Arjan de Koning*

- Location: **Kennedy Room**

Topic: **Structural change**

Chair: Oleksandr Chebanov

1. Analyzing industrial structure change in the Input-Output Economic System based on Q-analysis: an Application to Chinese's Economy from 1992 to 2005  
by *Jianqin Yuan, Xu Jian*
2. Comments on Brazilian structural change during 2000-2008  
by *Paulo de Tarso Gaeta Paixao*
3. Estimating Structural Change Factors in the Ukrainian Economy  
by *Oleksandr Chebanov*

- Location: **Madison Room East**

Topic: **Issues and examples of SDA**

Chair: Peter Rørmoste Jensen

1. Comparing Input-Output Tables of Different Economies: A New Application for Decomposition Techniques?  
by *Michael L Lahr, Ling YANG*
2. Structural Decomposition Analysis on China's Domestic Value-Added Generated by Chinese Exports  
by *ZHU Kunfu, Quanrun Chen, Cuihong Yang*
3. Sense and sensitivity of structural decomposition analysis  
by *Peter Rørmoste Jensen*

- Location: **Madison Room North**

Topic: **Embodied CO2 emissions in trade**

Chair: Martin Soeren Lindner

1. Embodied CO2 emissions of German imports - How do technology assumptions affect the results?  
by *Helmut Mayer*
2. Embodied energy intensities in Chinese Provinces  
by *Martin Soeren Lindner, Klaus Hubacek*
3. The Effects of Aggregation: A case of carbon footprint accounting by using Multi-Region Input-Output models  
by *Xin Zhou, Hiroaki Shirakawa, Manfred Lenzen*

- Location: **Madison Room West**

Topic: **Organized session: WIOD 2: Empirics of International Trade**

Chair: Marcel Timmer

1. Measuring global fragmentation/openness indicators using harmonized international input-output database  
by *Norihiko Yamano, Bo Meng*
2. On the Factor Content of Bilateral Trade  
by *Robert Stehrer, Neil Foster*
3. The Factor Content of Trade: Time-series Evidence  
by *Gaaitzen de Vries, Neil Foster, Robert Stehrer, Marcel Timmer*

- Location: **Washington Room (part of the Ballroom)**

Topic: **Theory and application of CGE modelling**

Chair: Debesh Chakraborty

1. CGE Analysis of the Impacts of a Carbon Tax on China's Economy  
by *Jinghua Li*
2. Efficient Size of Regional Population: an Interregional CGE Model Approach  
by *Euijune Kim, Geoffrey J.D. Hewings, Nam Kyung-Min*
3. Estimating and comparing multiplier matrices: the role of resources and the role of technology.  
by *Manuel Alejandro Cardenete Flores, Ferran Sancho*

13:00 - 14:30 *Lunch*

**14:30 - 16:00 Parallel Session 5**

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- Location: **Jefferson Room (part of the Ballroom)**

Topic: **Economic growth, diversification and integration**

Chair: Goetz Zeddies

1. Contribution of transport to economic growth and productivity in New Zealand  
by *Tantri Tantirigama, Joanne Leung*
2. Diversification of Farm and Non-Farm Sectors and Structural Transformation of Rural Economy  
by *Dipti Prakas Pal, MAUSUMI DATTA BISWAS*
3. European Integration and National Labor Markets - On the Factor Content of Intra-European Trade Flows  
by *Goetz Zeddies*

- Location: **Kennedy Room**

Topic: **Trade and supply chains**

Chair: Satoshi Inomata

1. An evolutionary perspective on production networks in the Asia-Pacific region  
by *Satoshi Inomata*
2. Interregional trade, supply chains and regional income disparity  
by *Jan Oosterhaven, Erik Dietzenbacher, Jiansuo Pei*
3. EPSIM - An Integrated Sequential Interindustry Model for Energy Planning: evaluating economic, electrical, environmental and health dimensions of new power plants  
by *Andre Fernandes Tomon Avelino, Joaquim Jose Martins Guilhoto, Geoffrey J.D. Hewings*

- Location: **Madison Room East**

Topic: **IO and MFA**

Chair: Andrew Skelton

1. A Regional WIO Analysis of the Effect of Non-residents' Consumption: A Comparison between Tokyo and Kyoto  
by *Makiko Tsukui, Takumi Ichikawa, Shigemi Kagawa, Yasushi Kondo, Masaru Kagatsume*
2. Application of a Global Link Input-Output Model to Material Flow Analysis: A Case of Scarcity Metal  
by *Keisuke Nansai, Shigemi Kagawa, Yasushi Kondo, Sangwon Suh*
3. Extending the Waste Input Output Model to behavioural change: the case of municipal food waste in South Australia  
by *Christian John Reynolds, John Boland*

- Location: **Madison Room North**

Topic: **Consumer responsibility and households' carbon emissions**

Chair: Alfredo José Mainar Causapé

1. A decomposition of CO2 production emissions in the Andalusian economy  
by *Patricia D. Fuentes Saguar, Manuel Alejandro Cardenete Flores, Clemente Andrés Polo*
2. Can Consumer Responsibility Help Address Carbon Leakage Concerns? An Economic Analysis of Participation vs. Non-Participation in a Mitigation Regime  
by *Xin Zhou, Hiroaki Shirakawa*
3. Household Consumption and CO2 Emissions: The Influence of Technological factors and Composition of Final Demand  
by *Alfredo José Mainar Causapé, Rosa Duarte, Julio Sánchez Chóliz*

- Location: **Madison Room West**

Topic: **Prices and inflation**

Chair: Utz Peter Reich

1. Comparison of Natural Prices and Market Prices: Case of Japan for 1951-2000  
by *Akiko NAKAJIMA*
2. The Role of Intermediate Goods and Financial Frictions on Economic Development  
by *Julian Neira*
3. PPP's for SDR's? Towards a coherent accounting measure of global inflation  
by *Utz Peter Reich*

- Location: **Washington Room (part of the Ballroom)**

Topic: **Using SAMs**

Chair: Susana Santos

1. Analyzing impacts of growth in production sectors on poverty across ethnic groups in Malaysia: using an extended multiplier decomposition technique  
by *Mohd Yusof Saari*
2. Economically Sustainable Demography: Reversing Decline in Portuguese Peripheral Regions  
by *Luís Cruz, Eduardo Anselmo Castro, Pedro Nogueira Ramos*
3. Using the SNA and SAMs for a better (socio-)economic modelling  
by *Susana Santos*

16:00 - 16:30 *Coffee Break*

## 16:30 - 18:00 Parallel Session 6

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- Location: **Jefferson Room (part of the Ballroom)**

Topic: **Structural analysis**

Chair: Hank Robison

1. Economic Structural Change and the Development of Service in China  
by *Hongxia Zhang*
2. Firm Efficiency, Industry Performance and the Economy: Three-Way Decomposition with an Application to Andalusia  
by *Thijs ten Raa, Antonio F. Amores*
3. Measuring Central Place Architectures in Multi-Regional Input-Output Systems  
by *Hank Robison, Jonathan Crapuchettes*

- Location: **Kennedy Room**

Topic: **Risks and disasters**

Chair: Tatyana Olegovna Tagaeva

1. Evaluating Economic Effects of the 2004 Tsunami on International Trade  
by *Sebnem Sahin, Yasuhide Okuyama*
2. Long-run Effects of a Disaster: Structural Analysis  
by *Yasuhide Okuyama*
3. The Modeling of Health Risk Factors in Russia with Using Input-Output and Econometric Approaches  
by *Tatyana Olegovna Tagaeva, Vadim Manavirovich Gilmundinov*

- Location: **Madison Room East**

Topic: **Regional IO: examples from SE Asia**

Chair: Kim Kwang Moon

1. An Input and Output Analysis of Changes of Guangdong Province's Industrial Structure in China  
by *Li Hong, Jianwen Yuan*
2. Developing a Bilateral Input-Output Table in the Case of Thailand and Vietnam: Methodology and Applications  
by *Kim Kwang Moon*

- Location: **Madison Room North**

Topic: **Modelling resource dependency**

Chair: Maaïke Corinne Bouwmeester

1. Deficit of Resource, Tension of Need and Utility of Wealth  
by *Nickolay Alexandrovitch Pecherskykh*
2. International material resource dependency in an input-output framework  
by *Maaïke Corinne Bouwmeester, Jan Oosterhaven*
3. The Supply-Driven Input-Output Model: A Reinterpretation and Extension  
by *JIYOUNG PARK*

- Location: **Madison Room West**

Topic: **Neural networks, critical supply paths and resources**

Chair: Kakali Mukhopadhyay

1. Grey Neural Network and Input-Output Combined Forecasting Model and Its Application in Sub-sector Energy Related Carbon Dioxide Emissions Estimation in China  
by *Xiuli Liu, Geoffrey J.D. Hewings*
2. Identifying critical supply-chain paths that drive the change in CO2 emission in Japan  
by *Yuko Oshita, Shigemi Kagawa, Keisuke Nansai, Sangwon Suh*



3. Resource Intensity in India  
by *Kakali Mukhopadhyay, Debesh Chakraborty*

- Location: **Washington Room (part of the Ballroom)**

Topic: **Country case studies**

Chair: Zorikto Bato-Dugarovich Dondokov

1. High Speed Rail and Regional Economic Development in Australia: A Multi-regional Input-Output Approach  
by *Jian Wang*
2. The Economic Importance of Housing Sector in Tehran Province- Extraction Method Approach  
by *Fatemeh Bazzazan, somaye mohsenpour*
3. The Use of Modified Input-Output Model for Tax Policy Evaluation: The Russian Case  
by *Zorikto Bato-Dugarovich Dondokov*

18:00 - 19:00 *ESR meeting (invitation only)*

19:00 - 21:00 *Dinner*

## **Wed, 15/Jun/2011**

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08:30 - 09:00 *Coffee Break*

09:00 - 10:30 *General Assembly*

10:30 - 17:00 *Practical work with EXIOBASE (to register email Arnold Tukker (arnold.tukker(at)no.nl))*

## **Thu, 16/Jun/2011**

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08:30 - 09:00 *Coffee Break*

### **09:00 - 11:00 Parallel Session 7**

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- Location: **Jefferson Room (part of the Ballroom)**

Topic: **Globalization, trade and spill-overs**

Chair: Douglas Shannon Meade (INFORUM)

1. Structural Spillovers and Feedbacks in North American. An international and national approach.  
by *Marco Antonio Marquez*
2. The Factor Content of Bilateral Trade between India & Sri Lanka  
by *Chandrima Sikdar, Debesh Chakraborty*
3. The Globalisation Effects on the Trade Flows: Czech Experience  
by *Marek Rojicek*

4. Using the Inforum LIFT and Mudan Models to Investigate the Effects of Cap & Trade Legislation on International Leakages  
by *Douglas Shannon Meade*

- Location: **Kennedy Room**  
Topic: **Modelling global water issues**  
Chair: Kuishuang Feng

1. A multi-region input-output analysis of global virtual water flows  
by *Kuishuang Feng, Stephan Pfister, Sangwon Suh, Jan Christoph Minx, Klaus Hubacek*
2. Global shifts of green house gas emissions and requirements for water and bio-productive land  
by *Jan Weinzettel, Kjartan Steen-Olsen*
3. Methodological aspects of international environmental accounting of CO2 and water use in input-output models  
by *Maaïke Corinne Bouwmeester, Jan Oosterhaven*
4. Water Scarcity in the World Economy: Improving the Hydro-Economic Interface  
by *Faye Duchin, Carlos A Lopez-Morales*

- Location: **Madison Room East**  
Topic: **On the compilation of national accounts**  
Chair: Branko Vitas

1. Development of Supply and Use Tables at the previous year's prices: Estonian experience  
by *Ilsen Dedegkajeva*
2. Russian Input-Output Survey for Compilation Benchmark Input-Output Tables for 2011  
by *Natalia Ustinova*
3. The Challenges of introducing new standards and classifications into the Australian Input Output Tables  
by *Branko Vitas*

- Location: **Madison Room West**  
Topic: **Productivity and efficiency and economic growth**  
Chair: Thijs ten Raa

1. Application of conjoined input-output models for investment project evaluation: the economic efficiency approach  
by *Tatyana Sergeevna Novikova*
2. Technical Change Adjusted for Production of Bad Outputs in Input-Output Models  
by *Carl Pasurka*

3. The measurement of productivity: contributions to the analysis from IO economics  
by *Rossella Bardazzi*
4. The Solow Residual, Domar Aggregation, and Inefficiency: A Synthesis of TFP Measures  
by *Thijs ten Raa, Victoria Shestalocva*

11:00 - 11:30 *Coffee Break*

#### 11:30 - 13:00 **Parallel Session 8**

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- Location: **Jefferson Room (part of the Ballroom)**

Topic: **Health IO**

1. Convenient policy for Health care expenditure in a multisectoral extended model  
by *Claudio Socci, Maurizio Ciaschini, Rosita Pretaroli*
2. Economic Impact of Adopting Healthy Diet in Canada  
by *Kakali Mukhopadhyay, PAUL J. THOMASSIN*
3. Health Care Spending in the Long Run: An Application of the Inforum LIFT Model  
by *Ronald L Horst, Douglas Shannon Meade, Douglas E Nyhus, Jeffrey F Werling*

- Location: **Kennedy Room**

Topic: **Modelling disasters**

Chair: Valeria Andreoni

1. An input-output framework for assessing hurricane impact on regional workforce productivity  
by *Joost Reyes Santos*
2. Quantifying the Impacts of Industry Preparedness Strategies with a Risk-Based Input-Output Model  
by *Cameron MacKenzie, Kash Barker*
3. Worldwide economic effects of changes in international trade due to natural disasters: the case of Japan earthquake and tsunami  
by *Valeria Andreoni, Iñaki Arto, José Manuel Rueda-Cantuche*

- Location: **Madison Room East**

Topic: **Organized session: Presenting Eora: A Balanced World MRIO**

Chair: Daniel Moran

1. AISHA : A Tool for Constructing Time Series and Large Environmental and Social Accounting Matrices using Constrained Optimisation  
by *Arne Geschke, Keiichiro Kanemoto, Manfred Lenzen, Daniel Moran*
2. Building Eora: a Global Multi-region Input Output Model at High Country and Sector Detail  
by *Keiichiro Kanemoto, Arne Geschke, Manfred Lenzen, Daniel Moran*

3. The Global Carbon Footprint of Consumption: Findings from the Eora Model  
by *Daniel Moran, Arne Geschke, Keiichiro Kanemoto, Manfred Lenzen*

- Location: **Madison Room North**

Topic: **Various approaches to structural analysis**

Chair: Yasushi Kondo

1. Study on the Relationship between Economic Growth and Structural Change of Agribusiness  
by *Binjian Yan, Jin Fan, Yingheng Zhou*
2. Structural analysis of the Indian economy in the conventional and augmented input-output frameworks  
by *Debesh Chakraborty, Paramita Dasgupta, Partha Pratim Ghosh*
3. A New Method for Triangulation of Input-Output Tables for Comparing Industrial Structures and Investigating Clusters of Industries  
by *Yasushi Kondo*

13:00 - 14:00 *Lunch*

**14:00 - 15:30 Parallel Session 9**

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- Location: **Jefferson Room (part of the Ballroom)**

Topic: **Issues in input-output economics**

Chair: Erik Dietzenbacher

1. Fragmentation, vertical specialization, manufacturing exports and economic growth in Mexico  
by *Wilmar Ascarraga, Gerardo Fujii*
2. Retrospective Measures of GDP Using Input-output Tables for Former Czechoslovakia  
by *Jaroslav Sixta, Jakub Fischer*
3. The Relationship Between The Tabulation Method Of Real-Time Input-Output Table And The Modernization Of Enterprise Management  
by *Ning Kang*

- Location: **Kennedy Room**

Topic: **Analyzing greenhouse gas emissions in Mexico and Brazil**

Chair: Joaquim Guilhoto

1. Greenhouse gas emissions in Mexico, relative cost estimations and policy implications  
by *Pablo Ruiz-Napoles*
2. Relationship between income classes and CO2 emissions in Brazil  
by *Ricardo Luis Lopes, Kleber Defenti Bernardino*

3. The Development of the Brazilian Amazon Region and Greenhouse Gases Emission: A Dilemma to Be Faced!  
by *Denise Imori, Joaquim Jose Martins Guilhoto, Caio Waisman*

- Location: **Madison Room East**

Topic: **Organized session: WIOD 3: Environmental Applications**

Chair: Michael Schymura

1. Embodied and induced technological change and the price of carbon  
by *Kurt Kratena*
2. Globalization and China's Growth: A Longitudinal Analysis of Impacts on Worldwide Energy Use  
by *Bart Los, Erik Dietzenbacher, Frederik V R Neuwahl, Robert Stehrer, Marcel Timmer*
3. Structural change, trade and the environment: an application to WIOD data  
by *Michael Schymura*

- Location: **Washington Room (part of the Ballroom)**

Topic: **Evaluating environmental policies**

Chair: Ana-Isabel Guerra

1. Can Natural Gas Substitution in Transportation Sector Reduce Green House Gases (GHGs) Significantly: An Input-Output Analysis  
by *Niaz Ahmed Bhutto, Selim Cagatay, Nisar Ahmed Siddiqui*
2. Environmental progressive tax reform through a dynamic general equilibrium analysis  
by *Claudio Socci, Maurizio Ciaschini, Rosita Pretaroli, Francesca Severini*
3. Green tax reforms and the mitigation of the rebound effect: the evaluation of a likely fourth dividend  
by *Ana-Isabel Guerra*

15:30 - 16:00 *Coffee Break*

16:00 - 18:00 *Plenary talks by fellows Almon, Miller and Pyatt*

18:00 - 20:00 *Reception*

## **Fri, 17/Jun/2011**

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08:30 - 09:00 *Coffee Break*

**09:00 - 11:00 Parallel Session 10**

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- Location: **Jefferson Room (part of the Ballroom)**

Topic: **Modelling monetary policies**

Chair: Rodrigo Emmanuel Santana Borges

1. Environmental Policy and Fiscal Consolidation  
by *Tobias Heinrich Kronenberg*
2. Price effects of VAT reform in China: With a focus on “refund rate of export tax” and “tax credit of investment goods”  
by *Takatoshi WATANABE, Kiyoshi Fujikawa, Mitsuru Shimoda, Ye Zuoyi*
3. VAT reduction as anticiclic policy and macroeconomic effects: the case of Brazil in the current crisis  
by *Rodrigo Emmanuel Santana Borges*

- Location: **Kennedy Room**

Topic: **Organized session: EXIOPOL**

Chair: Arnold Tukker

1. Overall review of the EXIOPOL project and approach towards harmonisation of SUT and environmental extensions  
by *Arnold Tukker*
2. The Exiobase DBMS for the storage SUTs and transformation into trade-linked input-output tables: some illustrative applications  
by *Reinout Heijungs, Arjan de Koning*
3. Economic and environmental impacts of shifts in regional diets: a global MRIO scenario analysis  
by *Nathaniel Springer, Faye Duchin*

- Location: **Madison Room East**

Topic: **Organized US-BEA Session: The Measurement of New Economic Dynamics**

Chair: Brian Moyer and Wendy Li

1. Aggregate effects and measuring regional dynamics  
by *Kyle Hood*
2. Estimating the Local Economic Impact of U.S. University Activity Using a Bill of Goods Approach  
by *Carol A Robbins, Zoe Ambargis*
3. Imported Inputs and Industry Contributions to Economic Growth: An Assessment of Alternative Approaches  
by *Erich H. Strassner, Jennifer Lee*

- Location: **Madison Room North**

Topic: **Analyzing the role of energy**

Chair: Arteom Denisov

1. Energy intensity and structural change : I-O analysis based on hybrid units  
by *Pran Krishna Pal, Dipti Prakas Pal, Pal Swati*
2. Structure Decomposition Analysis of China's Energy Intensity Change from 1987 to 2007  
by *Haiyan Zhang, Michael L Lahr*
3. The impact of energy resources price increase on inflation in Russia in 2000-2010  
by *Arteom Denisov*

- Location: **Washington Room (part of the Ballroom)**

Topic: **Important issues in IO theory and practice**

Chair: Maurizio Grassini

1. A semiGRAS method for benchmarking and temporal disaggregation  
by *Umed Temurshoev*
2. Rent and Profit  
by *Takashi Yagi*
3. The Least Eigenvalue of the Input Coefficients Matrix  
by *Daju Xu*
4. Overlapping Leontief: A Boolean approach to economic thought  
by *Maurizio Grassini*

11:00 - 11:30 *Coffee Break*

### 11:30 - 13:00 Parallel Session 11

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- Location: **Jefferson Room (part of the Ballroom)**

Topic: **Analysis of specific sectors: country case studies**

Chair: Seyed Iman Azad

1. Changing levels and pattern of rainfall on climatic factors and their effect on output  
by *Shalini Singh Sharma*
2. Sectoral Energy Intensity In Malaysia  
by *Narges Moradkhani*
3. Services Intensities in the Iranian Economy: An Input-Output Approach  
by *Seyed Iman Azad, Najmeh al sadat Azad, Nasim Fathi*

- Location: **Kennedy Room**

Topic: **Country case studies**

Chair: Shri Prakash

1. A multiregional structural analysis of a dualistic economy: the Italian regions over a decade (1995-2006)  
by *Renato Panizza', Luca Cherubini*
2. Regional differentiation of technological coefficients in Russia  
by *Alsu Sayapova*
3. The Modelling of Computable General Equilibrium Integrated Multi-Household Model and Its Application for China  
by *Binjian Yan, Jin Fan, Geoffrey J.D. Hewings, Yingheng Zhou*

- Location: **Madison Room East**

Topic: **Decomposition Analysis**

Chair: Sulaiman Noorasiah

1. Application of Factor Decomposition Techniques to Vertical Specialisation Measurements  
by *Bo Meng, Norihiko Yamano*
2. Decomposition of final demand by products into primary input contents - methodology and applications  
by *Ana Maria Dias*
3. Modeling of Russian Economy Structure with GE-IO Approach  
by *Vadim Manavirovich Gilmundinov*

- Location: **Madison Room West**

Topic: **Organized session: WIOD 4: Methodological Contributions**

Chair: Umed Temurshoev

1. A correct method to determine the factor content of trade  
by *Erik Dietzenbacher, Bart Los*
2. Does bias really matter in input-output analysis? An almost definite answer  
by *José Manuel Rueda-Cantuche, Antonio F. Amores, Esteban Fernandez-Vazquez*
3. Does the rest of the world matter? A sensitivity analysis with the WIOD tables  
by *Yan Xu, Erik Dietzenbacher*

13:00 - 14:30 *Lunch*

**14:30 - 16:00 Parallel Session 12**



- Location: **Kennedy Room**

Topic: **Indian Trade**

Chair: Kakali Mukhopadhyay

1. Balancing Factor Endowment and Composition of Indian Exports  
by *Shri Prakash, Amit Sharma*
2. Determinants of India's foreign trade during reform  
by *Debesh Chakraborty, Paramita Dasgupta, Arpita Ghose*
3. Economy Wide Impact of the Trade Integration between Japan and India: A GTAP Analysis  
by *Kakali Mukhopadhyay, Biswanath Bhattacharyay*

- Location: **Madison Room East**

Topic: **Water IO: country case studies**

Chair: Taku Ishiro

1. Application of Input-Output Technique for Assessing Water consumption of Manufacturing Industries in Iran  
by *Mohammadgholi Yousefi*
2. Water Footprint Analysis in Kanto basin zone, Japan by compiling the Kanto Interregional Input-Output Table  
by *Taku Ishiro*
3. The economy and environment- An integrated approach for Canada  
by *Yusuf M. Siddiqi*

- Location: **Madison Room West**

Topic: **Organized session: The Measurement of Intangible Capital**

Chair: Ana Aizcorbe and Wendy Li (U.S. Bureau of Economic Analysis)

1. Artistic Originals as a Capital Asset  
by *Rachel Harris Soloveichik*
2. Depreciation of Business R&D Capital  
by *Wendy Li*
3. Industry-specific price indexes for R&D  
by *Carol A Robbins, Olympia Belay, Matthew Donahoe, Jennifer Lee*

- Location: **Washington Room (part of the Ballroom)**

Topic: **SUTs: issues and applications**

Chair: Bernd Struck

1. Supply-Use Tables: Simultaneously Balancing at Current and Constant Prices. A new Procedure.  
by *Vittorio Nicolardi*

2. The use of supply-use tables for the identification of key sectors using unbiased input-output multipliers  
by *Antonio F. Amores, José Manuel Rueda-Cantuche*
3. SUT in developing countries: compromising in statistical units  
by *Bernd Struck, Asif Bajwa, Arif Cheema*

16:00 - 16:30    *Coffee Break*

16:30 - 17:30    *Plenary talk by Leontief Award Winner*