



**International Input-Output Association**

PO Box 202, A-1031 Vienna, Austria

Fax: +43 2244-30210, Website: <http://www.iioa.org>

**President:** Faye Duchin

**Vice-Presidents:** Jan Oosterhaven, Norihisa Sakurai

**Secretary:** Norbert Rainer

**Treasurer:** Josef Richter

**Editor of the Journal:** Erik Dietzenbacher

## Conference Program

15<sup>th</sup> International Input-Output Conference

Beijing, China P.R.

27 June – 1 July, 2005

Renmin University of China

Run Run Shaw Conference Center

**Local Organizing Committee:**

Professor Yanyun Zhao, Center for Applied Statistics, Renmin University of China

(Website: <http://www.applstats.org/english/io/index.htm>)

Dr. Xianchun Xu, National Bureau of Statistics, China

## Conference Program: 15<sup>th</sup> International Input-Output Conference in Beijing

Day 0: Sunday June 26	Day I: Monday June 27	Day II: Tuesday June 28	Day III: Wednesday June 29	Day IV: Thursday June 30	Day V: Friday July 1
	8:45-9:30 <b>Opening Ceremony</b>	9:00-10:30 <b>11 Parallel sessions (II.1)</b>	9:00-20:00 <b>Excursion: Tour to the Great Wall &amp; the Tombs of 13 Ming Emperors with Lunch and dinner</b>	9:00-11:00 <b>10 Parallel sessions (IV.1)</b>	9:00-10:30 <b>8 Parallel sessions (V.1)</b>
	Coffee Break	Coffee Break		Coffee Break	Coffee Break
	10:00-12:30 <b>Plenary Session 1 Presidential Address &amp; Keynotes</b>	11:00-12:30 <b>11 Parallel sessions (II.2)</b>		11:15-13:00 <b>Plenary session 2</b> Input Output: Whence and Whither? Organizer and Chair: A. Carter	11:00-12:30 <b>57 Parallel sessions (V.2)</b>
	12:30-12:40 IIOA Message Board Presentation				
	12:40-14:00 Lunch	12:30-14:00 Lunch		13:00-14:30 Lunch	12:30-14:00 Lunch
14:00-18:00 <b>Registration</b> At the Run Run Shaw Conference Center in Renmin University	14:00-15:30 <b>11 Parallel sessions (I.1)</b>	14:00-15:30 <b>11 Parallel sessions (II.3)</b>		14:30-16:00 <b>8 Parallel sessions (IV.2)</b>	14:00-15:30 Round table discussions
	Coffee Break	Coffee Break		Coffee Break	Coffee Break
16:30-18:00 <b>Council Meeting</b> (Room 1 at Run Run Shaw Center)	16:00-17:30 <b>11 Parallel sessions (I.2)</b>	16:00-17:30 <b>11 Parallel sessions (II.4)</b>		16:30-18:30 <b>Members' Meeting</b>	16:00-16:15 <b>Closing</b>
18:30-20:30 <b>Opening dinner</b>	19:00-21:00 Two evening courses	19:00-21:00 Two evening courses		19:00-21:00 Two evening courses	17:00-18:30 <b>Council Meeting</b> (Room 1 at Run Run Shaw Center)

**Remark:**

**11 Poster sessions are scheduled on Thursday and Friday.**

**Registration desk opens everyday during the conference period.**

## **DAY 0**

**Sunday, June 26, 2005**

**14:00-18:00**

**Registration**

**Place: Run Run Shaw Conference Center  
Renmin University of China**

**16:30-18:00**

**Council Meeting (only for Council Members)**

**Meeting room 1 of Run Run Shaw Conference Center  
Renmin University of China**

**18:30-20:30**

**Opening Dinner**

**The Staff Restaurant of Renmin University of China, the 3rd Floor**

## **DAY I**

**Monday, June 27, 2005**

### **Opening Ceremony and Speeches**

**Room: Conference Hall 1 at the Run Run Shaw Conference Center**

- 8:45-9:00          Welcome by our host and local organizer  
9:00-9:15          Speech by Mr. Deshui Li, President of National Bureau of Statistics, China  
9:15-9:30          Speech by the President of Renmin University of China
- 9:30-10:00        Coffee Break

### **Plenary Session 1**

#### **Presidential Address and Three Keynotes**

**Chair: Karen R. Polenske**

**Room: Conference Hall 1 at the Run Run Shaw Conference Center**

- 10:00-10:40  
Faye Duchin  
Input-Output Economics and the Physical World
- 10:40-11:20  
Lester Lave  
Economic Input-Output Life Cycle Analysis Making Life Cycle Analysis Practical
- 11:20-11:50  
J. Steven Landefeld  
Input-Output Accounting: The Partnership between Users and Producers
- 11:50-12:20  
Chen Xikang  
Chinese Economic Development and Input-Output Extension
- 12:20-12:30      Floor discussions
- 12:30-12:40  
Klaus Hubacek and Dabo Guan  
Presentation on the New IIOA Message Board
- 12:40-14:00      Lunch Break

**14:00–15:30 11 PARALLEL SESSIONS I.1**

**Session I.1.1**

**World Input-Output Models I**

**Room: Conference Hall 2 at the Run Run Shaw Conference Center**

Organizers: Emilio Fontela Montes and José M. Rueda-Cantucho

Chair: Antonio Pulido San Román

Anders Hammer Strømman, Glen Peters, Edgar G. Hertwich and Faye Duchin  
The Global Value Chain Impacts of Increased Chinese Demand on Aluminium

Faye Duchin and Roxana Juliá

Adapting to Climate Change: Global Agriculture and Trade. A Structural Approach

Bernd Meyer

Modeling Opportunities and Limits for Restructuring Europe towards Sustainability(MOSUS)

**Session I.1.2**

**Physical Input-Output Analysis: Conceptual Questions and Possible Applications I**

**Room: Meeting room 2 ( 120 seats ) at Run Run Shaw Conference Center**

Organizers: Helga Weisz and Sangwon Suh

Chair: Helga Weisz

Erik Dietzenbacher

Waste Treatment in Physical Input-Output Analysis

Yuichi Moriguchi, Keisuke Nansai, Seiji Hashimoto, Shinsuke Murakami, Shigekazu Matsui and Shigesada Takagi

Multi-Dimensional Physical I-O Tables (MDPIOT) for Japan: Framework, empirical data and applications

Jan Christoph Minx, Giovanni Baiocchi, John Barrett, Thomas Wiedmann, Sangwon Suh and Manfred Lenzen

On the value of physical input-output tables for monitoring economy-wide resource flows

**Session I.1.3**

**New Developments in Compiling Input-Output Tables I: Input-Output Tables and National Accounts – U.S. Experience**

**Room: Room 1503 ( 180 seats ) at Teaching Building No.1**

Organizers: Jiemin Guo and Mark Planting

Chair: Sumiye Okubo

Jiemin Guo, Mark A. Planting, Mikael Mortensen, and Yvon Pho

Integrating U.S. Input-Output Tables with SNA: An Assessment Study

Ann Lawson

A Post-Mortem on the Method Used to Integrate the U.S. Industry Accounts

Andrew Bernat and Richard Chard

Constructing Regional Purchase Coefficients to Improve Measures of US Interregional Trade

#### **Session I.1.4**

##### **HDI in Input Output Framework: An Alternative Approach**

**Room: Meeting room 1 ( 70 seats ) at Run Run Shaw Conference Center**

Organizer and Chair: Shri Prakash

Shri Prakash

Human Development Index in an Input Output Framework

Shalini Sharma

Determining Values of Product and Company Brands in Input Output Framework As Outcomes of Intellectual Property Rights

Shri Prakash and B. Balakrishnan

Input Output Modeling of Employment and Productivity as Base of Growth

#### **Session I.1.5**

##### **International Productivity Comparison among Asian Countries (I)**

**Room: Room 1504 ( 120 seats ) at Teaching Building No.1**

Organizer: Kazuyuki Motohashi

Chair: Masahiro Kuroda

Hak. K Pyo, Keun-Hee Rhee and Bong Chan Ha

Growth Accounting, Productivity Analysis, and Purchasing Power Parity in Korea (1984-2002)

Ruoan Ren

Time-Series Input-Output Tables

Ruoan Ren

Industry Level TFP Growth in China

#### **Session I.1.6**

##### **History of Input-Output Analysis I**

**Room: Room 1505 ( 120 seats ) at Teaching Building No.1**

Organizer and Chair: Olav Bjerkholt

Heinz D. Kurz and Neri Salvadori

Input-Output Analysis as Seen from a Higher Standpoint

Albert E. Steenge and Richard van den Berg

Input-Output à la Quesnay: a Fuller Economic Vision

Gilbert Abraham-Frois and Emeric Lendjel

"Father" Potron's Early Contributions to Input-Output Analysis

#### **Session I.1.7**

##### **Complexity and Interrelatedness**

**Room: Meeting room 4 ( 30 seats ) at Run Run Shaw Conference Center**

Chair: Debdas Bandyopadhyay

João Ferreira do Amaral, João Dias and João Carlos Lopes  
Complexity as interrelatedness: An inter-sectoral approach

J. C. Lopes, J. F. Amaral and J. Dias An interrelatedness indicator to measure economic complexity, with an application to the Portuguese Case

Debdas Bandyopadhyay and Prasanta Mandal  
Statistical Analysis of Complexity in Productive Structure of Indian Economy: 1984-1996

### **Session I.1.8**

#### **R&D Spillovers, Productivity and Employment**

**Room: Meeting room 3 ( 30 seats ) at Run Run Shaw Conference Center**

Chair: Petr Hanel

Nuria Gómez Sanz, Luis Antonio López Santiago and María Ángeles Tobarra Gómez  
R&D Spillovers and Industrial Employment: the Case for Spain in 1993-2002

Joze P. Damijan and Mark Knell  
Measuring Spillovers between Industries through the Use of Input-Output Matrices

Petr Hanel and Bilkis Khanam  
Total Factor Productivity Growth and the R&D Expenditures of Canadian Manufacturing and Services Industries: Contribution of Inter-Industry and International spillovers, 1973-2000

### **Session I.1.9**

#### **SAM based Modeling and Analysis I**

**Room: Room 1506 ( 120 seats ) at Teaching Building No.1**

**Chair: Maurizio Ciaschini**

Alexandra Manuela Gomes and Pedro Ramos  
A Social and Regional Accounting Matrix for Portugal Focusing on Income Distribution

Andrés Blancas  
The Inter-Institutional Linkage Analysis: A SAM Approach

Maurizio Ciaschini and C. Socci  
Linkages in Social Accounting Matrix: Backward and Forward Dispersion Approach

### **Session I.1.10**

#### **Service Economy and Input-Output**

**Room: Room 1104 (120 seats) at Teaching Building No.1**

Chair: Geoffrey J.D. Hewings

Sergio Parrinello  
The Service Economy Revisited

Rita Bhowmik and Dilip Halder  
Importance and Expansion Potentiality of Service Sector in Indian Economy, 1968-69 –  
1993-94

Robert Stehrer and Waltraud Urban  
Comparisons of IO Structures in the Transition Countries

**Session I.1.11**

**IDE's Projects on the Asian Industrial Structure**

**Room: Conference Hall 1 ( 392 seats ) at Run Run Shaw Conference Center**

Organizer: Ikuo Kuroiwa

Chair: Hiroshi Kuwamori

Nobuhiro Okamoto and Takeo Ihara  
Spatial Structure and Regional Development in China

Nobuhiro Okamoto, Satoshi Inomata and Takao Sano  
Estimation Technique of International Input-Output Model by Non-survey Method

Ikuo Kuroiwa  
Formation of Inter-Country Production Networks in East Asia: Application of International  
Input-Output Analysis



**16:00–17:30 11 PARALLEL SESSIONS I.2**

**Session I.2.1**

**World Input-Output Models II**

**Room: Conference Hall 2 ( 180 seats ) at Run Run Shaw Conference Center**

Organizers: Emilio Fontela Montes and José M. Rueda-Cantucho

Chair: Faye Duchin

(two papers)

T. Barker, P. Dewick, S. de Ramón, J. Koehlor, Haoran Pan

Long-term Technological Change in Input-Output Coefficients for a Global Model: E3MG 1970-2100

Glen Peters and F. Duchin

Tariffs and Comparative Advantage in Global Trade

**Session I.2.2**

**Physical Input-Output Analysis: Conceptual Questions and Possible Applications II**

**Room: Meeting room 2 ( 120 seats ) at Run Run Shaw Conference Center**

Organizers: Helga Weisz and Sangwon Suh

Chair: Sangwon Suh

Helga Weisz and Peter Fleissner

Conceptual Differences between Physical and Monetary IO Models

Jan Christoph Minx and Giovanni Baiocchi

Time Use and Sustainability: An Input-Output Approach in Mixed Units

Stephan Moll

Physical Input-Output Analyses: Some Experiences from Ongoing Research

**Session I.2.3**

**New Developments in Compiling Input-Output Tables II: Time Series and Coefficients Changes**

**Room: Room 1503 ( 180 seats ) at Teaching Building No.1**

Organizers: Jiemin Guo and Mark Planting

Chair: Charles Bowman

Charles Bowman

Coefficient change in input-output forecasting models

Zhibiao Wang

Nonlinear Direct Input Coefficient When Technological Progress Takes place

Filippo Moauro and Riccardo Corradini

Volume Measures of Input-Output Table in a Time Series Perspective: a Proposal for Italy

#### **Session I.2.4**

##### **Compiling Supply and Use Tables (SUT) and Input-Output Tables (IOT) I**

**Room: Room 1506 ( 120 seats ) at Teaching Building No.1**

Organizer and Chair: Csák Ligeti

Liv Hobbelstad Simpson

Experience with compilation of Supply and Use and Input-Output Tables for Constant Price  
Compilation of National Accounts in Different Countries

Marek Rojicek

Use of the Supply and Use Tables in the Process of Constant Prices Estimation

Janja Kalin

Establishing the Compilation of Supply and Use and Input - output Tables at Constant Prices  
in Slovenia

#### **Session I.2.5**

##### **Recycling Systems and Waste Management**

**Room: Room 1505 ( 120 seats ) at Teaching Building No.1**

Chair: Shigemi Kagawa

Kazuyo Yokoyama and Tetsuya Nagasaka

Development and Evaluation of An Model for Estimating Material and Energy Recovery from  
Landfilled Waste

Kazuhiko Nishimura

Instability in Autonomous Recycling Systems with Design Effect and Its Internalization

Shigemi Kagawa

Input-Output Analysis, Consumption Structure, and the Household Production Structure

#### **Session I.2.6**

##### **International Productivity Comparison Among Asian Countries (II) (RIETI's ICPA Project)**

**Room: Room 1504 ( 120 seats ) at Teaching Building No.1**

Organizer: Kazuyuki Motohashi

Chair: Masahiro Kuroda

Kazushige Shimpo

Industry Level TFP Growth in Japan

Marcel Timmer

International Comparisons of Sectoral Prices and Productivity

Kazuyuki Motohashi

TFP Growth and Level Comparison of China, Korea, Japan, Taiwan and United States

#### **Session I.2.7**

Session Cancelled.

**Session I.2.8**

**Tourism and Input-Output**

**Room: Room 1104 (120 seats ) at Teaching Building No.1**

Chair: Jan Oosterhaven

Jie Zhang

Regional Tourism Satellite Accounts for Denmark: Accounting and modeling

F. Bazzazan, A.A. Banouei and M. Alavinasab

Economic Impacts of Tourism on Yazd Province: A Central Region of Iran

Tianhu Fan and Jan Oosterhaven

Impact of International Tourism on the Chinese Economy

**Session I.2.9**

**Structural Decomposition Analysis**

**Room: Meeting room 3 ( 30 seats ) at Run Run Shaw Conference Center**

Chair: Bart Los

Liu Baojun

The Cause of China's Industrial Structure Evolution: A Systematic Analysis

Esteban Fernandez Vazquez, Bart Los and Carmen Ramos Carvajal

Using Additional Information in Structural Decomposition Analysis

Kiyonori Matsuki, Shigemi Kagawa and Hajime Inamura

A Spatial Structural Decomposition Analysis of the International Fragmentation

**Session I.2.10**

**China's Economic Growth and Input-Output Analysis I**

**Room: Conference Hall 1 ( 392 seats ) at Run Run Shaw Conference Center**

Organizer and Chair: Chen Xikang

Xiuli Liu

CPE-IHO Model to Calculate the Direct, Complete and Conjunct impact of Dumping or Subsidy on Import Country's Economy

Hongxia Zhang

The Optimal Education Funds Input in China: an Analysis of Multi-Sector Endogenous Growth Based on the Extended Input-Output Model on Education (EIOME)

Fu Xue

Chinese Education Structure for Sustainable Development: a Multiyear Lag Education-Economy Extended I-O Model with Assets Occupancy

**Session I.2.11**

### **Key Sector Analysis**

**Room: Meeting room 1 (70 seats ) at Run Run Shaw Conference Center**

Chair: Manfred Lenzen

Cid L. Terosa and George Manzano

Application of the Analytic Hierarchy Process Technique (AHP) in Input-Output Key Sector Analysis

M. Alejandro Cardenete and Ferran Sancho

The Missing Link in Key Sectors Analysis

M. Alejandro Cardenete and Gaspar J. Llanes

Keysectors Analysis Using Social Accounting Matrices: An Alternative Approach

Dinner

### **EVENING COURSES**

**19:00–21:00**

**Room: Room 1505(120 seats ) at Teaching Building No.1**

Course 1A:

Yusuf Siddiqi

The Role of I-O Tables in the System of National Accounts

or

**19:00–21:00**

**Room: Room 1506(120 seats ) at Teaching Building No.1**

Course 1B:

Ezra Davar

Prices in Input-Output System Models

## DAY II

Tuesday, June 28, 2005

Morning

### 11 PARALLEL SESSIONS II.1 9:00–10:30

#### Session II.1.1

##### World Input-Output Models III

Room: Conference Hall 2 ( 180 seats ) at Run Run Shaw Conference Center

Organizers: Emilio Fontela Montes and José M. Rueda-Cantuche

Chair: Emilio Fontela Montes

Bernd Meyer, Christian Lutz and Marc Ingo Wolter

The Impact of Chinas Investment Growth on Economic Growth and Resource Consumption in the World. Results of Simulations with the Global Model GINFORS

Sam Cole

Integrating Culture into Global Scenarios and Models

Emilio Fontela and José M. Rueda-Cantuche

Linking Cross-Impact Probabilistic Scenarios to World Social Accounting Models

#### Session II.1.2

##### Physical Input-Output Analysis: Conceptual Questions and Possible Applications III

Room: Meeting room 2 ( 120 seats ) at Run Run Shaw Conference Center

Organizers: Helga Weisz and Sangwon Suh

Chair: Helga Weisz

Sangwon Suh

Attribution Principles in Linear Systems - the Role of Units

Discussion: Comments by discussants, general discussions, and conclusions

#### Session II.1.3

##### New Developments in Compiling Input-Output Tables III: Interregional and Multiregional I-O

Room: Room 1503 ( 180 seats ) at Teaching Building No.1

Organizers: Jiemin Guo and Mark Planting

Chair: Jiemin Guo

(two papers)

Oliver Fritz, Erwin Kolleritsch and Gerhard Streicher

Compiling a Multiregional Input-Output Table for Austria: A Discussion of Methods and Conceptual Issues

Bjarne Madsen and Chris Jensen-Butler  
Spatial Accounting Methods and the Construction of Spatial Social Accounting Matrices

**Session II.1.4**

**China's Economic Growth and Input-Output Analysis II**

**Room: Conference Hall 1 (392 seats) at Run Run Shaw Conference Center**

Organizer and Chair: Chen Xikang

Jinghua Li

A Weighted Structural Decomposition Analysis of Coke in China

Yang Cuihong

Analysis of Human Capital Contribution to the Chinese Economy

Xiuli Liu and Chen Xikang

The Nonlinear Important Coefficients Input-Holding-Output Model

**Session II.1.5**

**Trade and Employment**

**Room: Room 1505 (120 seats) at Teaching Building No.1**

**Chair: Bart Los**

(two papers)

Gustav Dieckheuer

External Trade, Value Added and Employment: Studies with an Input-Output-Model for Germany

Yinglee Tseng, and Guang Yang

An Estimate of the Impact of Textile Quotas Elimination on China

**Session II.1.6**

**Input-output and Environmental Accounting: Introducing the System of Integrated Environmental and Economic Accounting 2003 (SEEA-2003) II  
Environmental Accounting for Water**

**Room: Room 1104 (120 seats) at Teaching Building No.1**

Organizer and Chair: Glenn-Marie Lange

Chair: Robert Smith

Alessandra Alfieri and Ilaria Dimatteo

The SEEA Framework for Water Accounts and Its Relationship to Other Water Management Databases

Manfred Lenzen and Barney Foran

Australia's Water Accounts - Structure and Applications

Glenn-Marie Lange

Managing Water in Botswana and Namibia: an Accounting Approach

### **Session II.1.7**

#### **Applications of Multisectoral Models**

**Room: Meeting room 4 (30 seats) at Run Run Shaw Conference Center**

Chair: Oscar De-Juan

Wang Jiamo

A Feasible Dynamic Nonlinear Input-Output Model

Debdas Bandyopadhyay

Growth-equity Trade-Off: A Case Study of India

Oscar De-Juan and Eladio Febrero

A Giant with Clay-Feet (Non-equilibrium Prices in AGE models)

### **Session II.1.8**

#### **SAM based Modeling and Analysis II**

**Room: Meeting room 1 (70 seats) at Run Run Shaw Conference Center**

Chair: Susana Santos

Gazi Özhan

A Two-Region SAM for Turkey: The Marmara Region and the Rest of Turkey, 2003

A.A. Banouei, M. Jelodari Mamaghani and J. Banouei

Analysis of Structure of Production and Institutional Income Distribution since 1970 The Case of Iran

Susana Santos

Government Expenditure with Households and Vice Versa: A SAM Approach Applied to Portugal

### **Session II.1.9**

#### **Leontief Paradox and Comparative Advantages**

**Room: Room 1504 (120 seats) at Teaching Building No.1**

Chair: Kazushige Simpo

Yun-kwong Kwok and Eden S. H. Yu

Leontief Paradox and the Role of Factor Intensity Measurement

Chul Chung

Industry-specific Factor Abundance and Factor Content of Trade: Heckscher-Ohlin-Vanek Theorem Revisited

Zahra Afshari, Iman Sheibani and Maryam Afshari

An Input-Output Model for Assessing the Alternative Growth Strategies in Iran

### **Session II.1.10**

#### **Energy Consumption and Input-Output**

**Room: Meeting room 3 ( 30 seats ) at Run Run Shaw Conference Center**

Chair: Debesh Chakraborty

(two papers)

Viera Hajnovicova and Jirina Lapisakova

The Analysis of Energy Consumption in the Slovak Republic

Kakali Mukhopadhyay and Debesh Chakraborty

Energy Intensity in India during Pre-Reform and Reform Period – An Input-Output Analysis

### **Session II.1.11**

#### **Waste Management and Life Cycle Assessment**

**Room: Room 1506 (120 seats) at Teaching Building No.1**

Chair: Jesper Munksgaard

Keisuke Nansai, Rokuta Inaba, Shigemi Kagawa, Yuichi Moriguchi, Seiji Hashimoto and Minoru Fujii

Classifying Goods and Services as a Simple Indicator for Sustainable Consumption

R. R. Tan and L. Pascual-Aquino

Predicting Direct and Indirect Greenhouse Gas Emissions of Biofuel Use with Life Cycle Assessment and Input-Output Analysis

Jesper Munksgaard, Line Block Christoffersen, Mette Wier, Trine S. Jensen, Ole Gravgaard Pedersen and Hans Keiding

Indexing the Environmental Pressure of Consumption – an Approach combining Input-Output Analysis, DEA and Damage Costs

10:30–11:00 Coffee Break



## 11 PARALLEL SESSIONS II.2 11:00–12:30

### Session II.2.1

#### Teaching Input-Output Modeling: Experiences, Current State and Prospects

Room: Conference Hall 1 (392 seats) at Run Run Shaw Conference Center

Organizers: Gulay Gunluk-Senesen, Ronald E. Miller and Peter D. Blair

Chair: Gulay Gunluk-Senesen

Gulay Gunluk-Senesen

I-O Teaching in the 2000s

Ronald E. Miller and Peter D. Blair

Miller and Blair II, "Input-Output Analysis Foundations, Extensions and Frontiers"

Commentator: Faye Duchin

(Floor Discussions)

### Session II.2.2

#### Enterprise Input-Output Analysis

Room: Meeting room 1 (70 seats) at Run Run Shaw Conference Center

Chair: Erik Dietzenbacher

Zhang Lingling and Tong Rencheng

Study on Relationship between ERP Logic and Consume Coefficient of Manufacture

Enterprise I/O Table

Frank Felder, Michael Lahr, Nancy Mantell, and Scott Weiner

The Potential Economic Effects of an Enhanced Renewable Portfolio Standard for Electric Utilities in New Jersey

Vito Albino, Silvana Kühtz, Chaoying Zhou and Ganli Peng

Energy and Materials Use in Italian and Chinese Tile Manufacturers: a Comparison Using an Enterprise Input-Output Model

### Session II.2.3

#### Interregional models and Applications

Room: Meeting room 4 (30 seats) at Run Run Shaw Conference Center

Chair: Kazumi Hitomi

Dirk Stelder

Endogenous Agglomeration in an Interregional I-O Framework

Kwangmoon Kim

Comparative Analysis of the Economies of Asian MEGA Cities Based on the Inter-Regional Input-Output Model: Tokyo, Manila, and Ho Chi Minh

Norihiko Yamano, Kazumi Hitomi and Norihisa Sakurai

The Sensitivity of Multiregional Economic Structure to Exogenous Changes

#### **Session II.2.4**

##### **Supply and Demand Chain Analysis**

**Room: Meeting room 2 (120 seats) at Run Run Shaw Conference Center**

Chair: Manfred Lenzen

Hassan Farsijani

Aligning Production Management Strategy for Managing Input-Output and Competitive Advantages

Deepak Iyengar, Joseph P. Bailey and Philip T. Evers

An Input-Output Analysis of Supply Chain Structure

Blanca Gallego and Manfred Lenzen

Sharing the Responsibility for Industrial Production Impacts: A General Model

#### **Session II.2.5**

##### **Reducing CO<sub>2</sub> and SO<sub>x</sub> Emissions in China**

**Room: Conference Hall 2 (180 seats) at Run Run Shaw Conference Center**

Chair: Hikaru Sakuramoto

Satoshi Nakano, Hirofumi Kito and Yuji Sakai

Measures to Reduce SO<sub>x</sub> Emissions in a Coal-Dependent Area: Case Study of Shenyang, Liaoning Province

Kazuhiko Nishimura and Satoshi Nakano

An Assessment of CO<sub>2</sub> and SO<sub>x</sub> Emission Mitigation Potentials by Using Electric Power Planning Models for Three Regions in China

Benfan Liang

Effect of Pollutant Discharge Fee on the Environmental Protection of China

#### **Session II.2.6**

##### **Compilation Issues in Input-Output Tables I**

**Room: Room 1503 (180 seats) at Teaching Building No.1**

Chair: Michel Braibant

Luc Avonds

Belgian Input-Output Tables: State of the Art

Abel Lucena and Mònica Serrano

The Valuation System of the Input-Output Tables within the SAM and AGEMS Framework

Michel Braibant

Compilation of Use Matrix of Intermediate Consumption in France for a New Benchmark Year 2000

#### **Session II.2.7**

##### **Input-Output Coefficients and Technological Change**

**Room: Room 1504 (120 seats) at Teaching Building No.1**

Chair: Gabrielle Antille Gaillard

GianDemetrio Marangoni and Giulio Fezzi  
The Leontief Model and Economic Theory

GianDemetrio Marangoni  
The Economic Consequences of a Technological Revolution

Toseef Azid and Muhammad Junaid Khawaja  
Vintage Capital and Survival Potential: Measurement through Marginal Input-Output Coefficients

### **Session II.2.8**

#### **Modeling International Input-Output System**

**Room: Room 1505 (120 seats) at Teaching Building No.1**

Organizer: Hiroyuki Kosaka

Chair: Douglas Nyhus

Mitsuru Shimoda, Takatoshi Watanabe and Kiyoshi Fujikawa  
A Comparative Study on Direct and Indirect Division of Labor in Asia-Pacific Region Using IDE International IO Tables

Shuntaro Shisido, A. Kawakami, M. Kurokawa, A. Movshuk, K. Tamashiro  
Policy Simulations with an Integrated Model for Japan and Northeast Asia

Hiroyuki Kosaka and Takashi Yano  
A 1985-90-95 Linked International Input-Output Analysis on Global Warming in the Asia-Pacific Region

### **Session II.2.9**

#### **Education, Labor Skills in Input-Output Modeling**

**Room: Room 1506 (120 seats) at Teaching Building No.1**

Chair: Michael L. Lahr

Luis E. Vila

Integration vs. Polarization: A Sharing Model Approach to the Labor Market Effects of A Process of Educational Expansion

Nooraddin Sharify

Investigation for an Optimum Structure of Labor Force Using a Linear Programming Model

Bernhard Eckwert and Itzhak Zilcha

Improvement in Information, Income Inequality and Growth

### **Session II.2.10**

#### **SAM based Analysis for Chinese Economy**

**Room: Room 1104 (120 seats ) at Teaching Building No.1**

Chair: Jin Fan

Xiaohui Yuan, Juan Mei and Jin Fan

Multiplier Analysis on Structural Characteristics of Consumption of Rural Residents in China

Juan Mei and Jin Fan

Compilation of Chinese Rural Residents Consumption Social Accounting Matrix (SAM) of 2003

Zhiyang Yin, Jin Fan and Qingwu Zheng

Analysis and Compilation of Regional Insure-Economic -Social Accounting Matrix in China

**Session II.2.11**

**Structural Change and Economic Development I**

**Room: Meeting room 3 (30 seats) at Run Run Shaw Conference Center**

Chair: Jie Li

(two papers)

Mikio Suga

The Influence on Inequality of Compensation of Employee by Change in Industrial Structure

J.M. Albala-Bertrand

Relative Capital Shortage and Potential Output Constraint: A Gap Approach

**12:30–14:00 Lunch break**

Afternoon

## 11 PARALLEL SESSIONS II.3 14:00–15:30

### Session II.3.1

**Input-output and Environmental Accounting: Introducing the System of Integrated Environmental and Economic Accounting 2003 (SEEA-2003) III Environmental Accounting for the Impacts of Household Consumption and Economic Growth**

**Room: Room 1104 (120 seats) at Teaching Building No.1**

Session Organizer: Glenn-Marie Lange

Chair: Alessandra Alfieri

Anders Wadeskog

Analysis of Households in the Environmental Accounts – the Swedish Experience

Wang Jin-nan, Jiang Hong-qiang, Cao Dong and Zhu Bao-liang

Building and Simulation-analysis of Environmental and Economic Computable Models for China

M. Wier, T. C. Jensen, L. B. Christoffersen , J. Munksgaard, T.S. Jensen, O.G. Pedersen and H. Keiding

Growth, Economic Policy and Environmental Performance

### Session II.3.2

**New Developments in Compiling Input-Output Tables IV: Applications in Input-Output Tables**

**Room: Room 1503 (180 seats) at Teaching Building No.1**

Organizers: Jiemin Guo and Mark Planting

Chair: Helmut Maier

Hong Zhao

Compilation and Application of China Input-Output Table

Antonio D'Agata

An Adaptive Multisectoral Model with Structural Change

Helmut Maier

Economic Explanation of Natural and Social Phenomena - Is There an Economic System within Nature?

### Session II.3.3

**Input-Output Economics and the Physical World**

**Room: Conference Hall 2 (180 seats) at Run Run Shaw Conference Center**

Organizer and Chair: Faye Duchin

John Gowdy

The Revolution in Economic Theory and the Future of Input-Output Analysis

Albert E. Steenge and Marija Bockarjova

Preparing for the Increasing Risk of Big Floods in a Low-Lying Country

Sam Cole

An Input-Output Approach to Performance and Protection in China's Regional Economies

**Session II.3.4**

**CGE Modeling and its Applications**

**Room: Meeting room 2 (120 seats) at Run Run Shaw Conference Center**

Chair: Klaus Conrad

Jin Fan, Yan Wang and Hanhui Hu

Shock Analysis of the Impact of the Implementation of Consumption Credit Policy on China's Township Residents' Consumption Behavior-A CGE-based Analysis

Cristela Goce-Dakila, Shoshi Mizokami and Kwangmun Kim

Impact of Transport Margin on Economic Welfare in National Capital Region, Philippines: A Single Region SAM Approach

Klaus Conrad, Henrike Koschel and Andreas Löschel

Not Employed 35 Hours or Employed 40?– A CGE Analysis for Germany

**Session II.3.5**

**International Input-Output Analysis for Asian Countries**

**Room: Meeting room 1 (70 seats) at Run Run Shaw Conference Center**

Chair: Jan Oosterhaven

Yuichi Hasebe and Nagendra Shrestha

Trade and Economic Growth in East Asia: An Analysis for Economic Interdependency Using International Input-Output Table

Hikaru Sakuramoto, Kozo Ishida, Masahiko Shimizu, Ayu Washizu and Naoko Takenaka

Economic and Environmental Interdependency in East Asian Countries

Kazushige Shimpo and Asako Okamura

IO-based Model of the World Economy: Changes in Lifestyles of Households in Thailand

**Session II.3.6**

**Multi-Regional Econometric Input-Output Model for Austria**

**Room: Meeting room 4 (30 seats) at Run Run Shaw Conference Center**

Organizer: Gerold Zakarias, Gerhard Streicher and Oliver Fritz

Chair: Gerhard Streicher

Oliver Fritz, Gerhard Streicher and Gerold Zakarias

MultiREG - A Multiregional Econometric Input-Output Model for Austria: An Overview of the Model's Structure and its Development

Gerhard Streicher and Gerold Zakarias

Endogenizing Regional Trade Relations in the Context of a Multiregional Econometric IO Model

Gerold Zakarias, Oliver Fritz, Kurt Kratena and Gerhard Streicher

Endogenous Update of I-O Coefficients in a Multiregional Econometric IO Model

Gerhard Streicher and Gerold Zakarias

Projecting Transport Demand for Austria until 2025: An Application of a Multiregional Econometric IO-Model

### **Session II.3.7**

#### **Globalization and Economic Integration**

**Room: Room 1504 (120 seats) at Teaching Building No.1**

Chair: Pierre Mohnen

Michael Landesmann and Robert Stehrer  
Outsourcing, Regionalism and Global Economic Growth

Robert Stehrer  
Effects of World Economic Integration on Growth, Structure and Labor Markets

Gianni Vaggi and Marco Missaglia  
The European Union enlargement and its Influence on the Economic Relations between the EU and MENA Countries

### **Session II.3.8**

#### **Energy Efficiency and Economic Development**

**Room: Room 1505 (120 seats) at Teaching Building No.1**

Chair: Vito Albino

Nguyen T. Anh Tuyet and Keiichi N. Ishihara  
Evaluation of Energy Productivity in Vietnam using IO Table

Jayant Sathaye, Joyashree Roy, Raman Khaddaria and Sarmistha Das  
Reducing Electricity Deficit through Energy Efficiency in India: An Evaluation of Macroeconomic Benefits

Xu Jian  
The ECA Method for Evaluating Effect on Energy Requirements of Economic Growth

### **Session II.3.9**

#### **History of Input-Output Analysis II**

**Room: Room 1506 (120 seats) at Teaching Building No.1**

Organizer and Chair: Olav Bjerkholt

Olav Bjerkholt and Mark Knell  
Did Ragnar Frisch Discover Input-Output Economics?

Christian Lager  
The Treatment of Fixed Capital

Akhabbar Amanar  
Is the constancy of technical coefficients a matter of tolerance? Leontief and the Cowles Commission's econometricians

### **Session II.3.10**

#### **Structural Change and Economic Development II**

**Room: Meeting room 3 (30 seats) at Run Run Shaw Conference Center**

Chair: Hiroshi Izumi

Rafael Bouchain and Roberto Ramírez  
Structural Change in the Mexican Economy

Seok-Hyeon Kim  
Impacts of Information Technology on Productivity and Linkage of the US Economy

Araceli Nivon Zaghi  
Software Development for Input-Output Analysis

**Session II.3.11**

**New Applications of Input-Output Modeling I**

**Room: Conference Hall 1 (392 seats) at Run Run Shaw Conference Center**

Chair: Gabrielle Antille Gaillard

J. V. Alarcon and B. Khondker, PD. Sharma and SHD Unit staff Bangladesh Planning Commission  
Interactive Interface - The SHD Modelling System for Monitoring Sustainable Human Development in Bangladesh

Partha Pratim Ghosh, Arpita Dhar and Debesh Chakraborty  
A Keynes-Leontief-Klein Type of "Integrated Macro-Econometric and Input-Output Model" for Sri-Lanka

Hu Guoqiang  
Comparative Analysis of Economy-Motivating Consumption, Investment and Net Export in Henan Province

15:30–16:00 Coffee Break



## **11 PARALLEL SESSIONS II.4 16:00–17:30**

### **Session II.4.1**

#### **Impacts of Trade Liberalization**

**Room: Conference Hall 2 (180 seats) at Run Run Shaw Conference Center**

Chair: Gulay Gunluk-Senesen  
(two papers)

Chandrima Sikdar and Debesh Chakraborty  
Promotion of Free Trade between India, Bangladesh and the European Union

Gulay Gunluk-Senesen and Umit Senesen  
Relative Price and Technology Components of Import Liberalisation in Turkey: 1973-1996

### **Session II.4.2**

#### **Environmental Impacts in Input-Output Framework**

**Room: Meeting room 1 (70 seats) at Run Run Shaw Conference Center**

Chair: Wang Jin-nan

Gloria P. Gerilla, Kardi Teknomo and Kazunori Hokao  
Technological Changes in Japanese Housing and Its Effects on Carbon Emissions

Yang Wei and Niklaus Kohler  
Analysis on Mass-Energy Flows and Environment Impacts of the Construction Sector of China

Kakali Mukhopadhyay  
Environment and Poverty in India: An Input-Output Approach

### **Session II.4.3**

#### **The Role of Transport Infrastructure in Economic Development**

**Room: Meeting room 2 (120 seats) at Run Run Shaw Conference Center**

Chair: Cristela Goce-Dakila

Gong Yurong  
Input & Output Investigation and Analysis of Railway Transportation Industry in 2002

Ole Kveiborg  
A Comparison of Economic Impacts from Pricing Schemes in Transport: A Review of Different Methodological Approaches and the Results They Can Give

Shoshi Mizokami, Motoki Itose and Cristela Goce-Dakila  
Impact of Transport Infrastructure Investment on Regional Economic Welfare: A Spatial Computable General Equilibrium (SCGE) 2-Region Model

### **Session II.4.4**

#### **Innovation and Input-Output**

**Room: Room 1504 (120 seats) at Teaching Building No.1**

Chair: Christian DeBresson

Bernardí Cabrer, Jose Manuel Pavía and Amparo Sancho  
Innovation Diffusion: an Approach to Spanish Sectors

Kim Heon-Goo  
Industrial Labor Productivity from IT Innovation: Korea Case 1995-2000

Christian DeBresson  
Innovative Poles and Innovative Holes in China during the Early 1990s: What Input-Output's Can Contribute

#### **Session II.4.5**

##### **Structural Change and Economic Development III**

**Room: Meeting room 4 (30 seats) at Run Run Shaw Conference Center**

Chair: Kazuyuki Motohashi

Ki Seok Byun and Chong Gui Kim  
Analysis for the Factor of Growth of Korean Economy: 1975-2000

Natalino Martins  
Structural Change and Economic Growth in Portugal: An Application of Input-Output Decomposition Analysis

Pi Qun Qiu  
Input-Output Model of Economic Circumstances-Resources Occupation and Its Application Among Western Areas in China

#### **Session II.4.6**

##### **Environment and CO2 Emissions in Input-Output Framework**

**Room: Meeting room 3 (30 seats) at Run Run Shaw Conference Center**

Chair: Julio Sánchez-Chóliz

(two papers)

Ilmo Mäenpää  
Comparison of Environmental Multipliers of Physical and Monetary Leontief Inverse

Julio Sánchez-Chóliz, Rosa Duarte and Alfredo Mainar  
Ecological Impact of Household Activity in Spain A New Approximation to Ecological Footprints

#### **Session II.4.7**

##### **The Relationship between Leontief and Ghosh's Input-Output System Models**

**Room: Room 1505 (120 seats) at Teaching Building No.1**

Organizer and chair: Ezra Davar

(two papers)

Rafael Bouchain and Roberto Ramírez  
In Vindication of the Gosh model on the Forward Linkages

Ezra Davar  
Input-Output System Models: Leontief versus Ghosh

#### **Session II.4.8**

##### **Interregional General Equilibrium Models**

**Room: Room 1503 (180 seats) at Teaching Building No.1**

Chair: Bjarne Madsen

Joaquim Bento de Souza Ferreira Filho  
Bottom-UP X Top-Down Regional Modeling: A Comparison of the Two Approaches in Modeling Regions Inside Brazil

Bjarne Madsen and Chris Jensen-Butler  
LINE – An Interregional General Equilibrium Model for Danish Municipalities

Morten Larsen, Bjarne Madsen and Chris Jensen-Butler  
Modeling Transport in an Interregional General Equilibrium Model with Externalities

#### **Session II.4.9**

##### **Linkage Analysis I**

**Room: Room 1506 (120 seats) at Teaching Building No.1**

Chair: Debesh Chakraborty

Guo Jue, Li Qi and Xing Gong Qi  
Input-Output Analysis of the Influential Effect of Chinese Financial Development to Economic Growth

Ali Souri  
The Oil Export and the Growth Pattern of Iran

Pham Van Bo  
Role of Construction Sector in National Economy: A Study of India and Vietnam

#### **Session II.4.10**

##### **Water as Important Natural Resources I**

**Room: Conference Hall 1 (392 seats) at Run Run Shaw Conference Center**

Chair: Alessandra Alfieri

David Batten, James Lennox and Scott Maves  
SESAME-Water: A System of Economic and Social Accounting Matrices and Extensions to support Water Policy and Management in Australia

Ramón G. Guajardo Quiroga and Patricia I. García López  
Assessing the Impact of Water Supply on the Economy of Nuevo Leon, Mexico: Empirical Results from an Input-Output Model

Ming LEI  
China's Sustainable Development Evaluation and Policy Choice ----Basic Analysis on the Green Accounting

**Session II.4.11**

**Inforum Software for Building Dynamic Interindustry Models**

**Room: Room 1104 (120 seats) at Teaching Building No.1**

Organizer and Chair Clopper Almon

Clopper Almon

Introduction to Inforum Software

Somprawin Manprasert

Optimization in Dynamic Interindustry Models Built with Inforum Software

Frank Hohmann

Synchronous Solution of Several Dynamic Interindustry Models

Dinner

**EVENING COURSES 19:00–21:00**

**Room: 1505 (120 seats) at Teaching Building No.1**

Course 2A:

Mark Planting

Methodological Overview of Construction of I-O Accounts, special focus on the U.S. accounts

or

**Room: 1506 (120 seats) at Teaching Building No.1**

Course 2B:

Susana Santos

Social Accounting Matrix and the System of National Accounts: An Application

## **DAY III**

**Wednesday, June 29, 2005**

**9:00-20:00**

**Excursion :**

**Visit the Great Wall and the Tombs of 13 Ming Emperors with Lunch and dinner**

## **DAY IV**

**Thursday, June 30, 2005**

**11 Poster Sessions are held on Thursday and Friday**

Morning

### **10 PARALLEL SESSIONS IV.1 9:00–11:00**

#### **Session IV.1.1**

**Compiling Supply and Use Tables (SUT) and Input-Output Tables (IOT) (II)**

**Room: Meeting room 1 (70 seats) at Run Run Shaw Conference Center**

Organizer and Chair: Csák Ligeti

Peter Ritzmann

European Union Input-output Data

Carlo Driesen, Erik Hoogbruin and Brugt Kazemier

From Supply and Use Tables to Input-Output Tables and Vice Versa

Mária Forgón and Csák Ligeti

Integration the Hungarian SUT/IOT and the National Accounts

Iljen Dedegkajeva and Reelika Parve

Compilation of Product-by-Product IOT for Estonia

#### **Session IV.1.2**

**Social Accounting Matrices in Southern Africa**

**Room: Meeting room 4(30 seats) at Run Run Shaw Conference Center**

Organizer and Chair: Glenn-Marie Lange

James Thurlow

Diversification and Poverty-Reduction in Zambia: An Economy-Wide Approach

Glenn-Marie Lange and Jon Barnes

A Social Accounting Matrix for Tourism in Namibia

Anemé Malan

Compilation of a Social Accounting Matrix according to the 1993 System of National Accounts: The South African Experience

Scott McDonald, Cecilia Punt and Melt van Schoor

A Multi Region Social Accounting Matrix for South Africa

#### **Session IV.1.3**

**New Approach in Regional Modeling and Their Applications in the Analysis of China's Regional Development (I)**

**Room: Conference Hall 1 (392 seats) at Run Run Shaw Conference Center**

Organizers: Karen R. Polenske and Zhi Wang

Moderator and Chair: Karen R. Polenske

Discussant: Dianqing Xu

Patrick Canning and Zhi Wang

A Flexible Mathematical Programming Model to Estimate Interregional Input-Output Accounts

Zhan Guo and Karen R. Polenske

Evaluation of Yellow-Dust Storms and Countermeasure Policies in North China Using Regional and National Input-Output Models

Li Shantong and He Jianwu

A Three-regional Computable General Equilibrium (CGE) model for China

**Session IV.1.4**

**Applications and Related Issues in INFORUM System**

**Room: Room 1505 (120 seats) at Teaching Building No. 1**

Organizer and Chair: Toshiaki Hasegawa

M. Grassini

The Difference of CGE Modeling and INFORUM Approach

Wang Yinchu

The Impact of Free Trade between China and Japan on Chinese Economy

Mitsuhiro Ono

Simulation of Japan-China Regional Economic Arrangement

Douglas Nyhus

China: An Input-Output Modeling System

**Session IV.1.5**

**CGE Models Applied in China**

**Room: Conference Hall 2 (180 seats) at Run Run Shaw Conference Center**

Chair: Shantong Li

Lin Sun

The linkage of Shanghai Economy with the Rest of China and the World market - Input-Output and CGE Model Analysis

Zhang Jin Shui and Hao Xiao Hong

The Optimal Growth Solution for the Multi-sector Nonlinear Dynamic Input-Output Model And the Dynamic Computable General Equilibrium Model

WANG Fei, Guo Songhong and Mitsuo Ezaki

Labor Migration and Regional Development in China: A Regional CGE Analysis

Mingtai Fan, Yuxin Zheng, Shuchang Qi and Jie Chen  
A Dynamic CGE Model for China's Agricultural Policy Analysis

#### **Session IV.1.6**

##### **Agriculture Industries as Key sectors**

**Room: Room 1504 (120 seats) at Teaching Building No.1**

Chair: Debesh Chakraborty

Taye T. Amos

Determinants of Technical and Allocative Efficiency Among Small-Scale Maize Farmers in Nigeria

Xiaohe Liu Xu Jian, Ping Liu and Benjamin Buetre

Developing an Input-Output Table of China for Detailed Agricultural Policy Analysis

Guan Qingsheng and Zhang Dongping

On the Harmony of Agriculture with Economy: The Henan Province Case

G. N. Nagaraja, Komala C. N., Mamatha Girish and G. Nanjundagowda

Optimization of Farm Income in Integrated Dairy Based Farming Systems

#### **Session IV.1.7**

##### **Measurement Issues in TFP and Growth Accounting**

**Room: Room 1503 (180 seats) at Teaching Building No.1**

Chair: Marcel Timmer

Maury Gittleman, Thijs ten Raai and Edward N. Wolff

The Vintage Effect in TFP Growth: An Analysis of the Age Structure of Capital

Hiroshi Izumi and Jie Li

Productivity Growth in Japanese Economy by Industry –A Estimation through Total Labor Productivity and Total Factor Productivity

Erik Dietzenbacher, Olaf de Groot and Bart Los

Consumption Growth Accounting

Christoph Meister and Bart Verspagen

European Productivity Gaps: Is R&D the Solution?

#### **Session IV.1.8**

##### **The Compilation and Application of Input-Output Table in China**

**Room: Room 1104 (120 seats) at Teaching Building No.1**

Chair: Xianchun Xu

Ping Fan

The Current Status of Input-output in Xinjiang Region and the Deliberation for Its



Application

Deyou Zhao

A Solution to Draw up Production Branch Input-Output Tables Improvement to UV  
Calculative Methods

Zhang Yaxiong

The Compilation and Application of 1997 China Multiregional Input-Output Model

Zaizhe Wang, Zuyao Hu, Xianchun Xu, Shuchang Qi and Kouzo Miyagawa

The Regional Structure of Chinese Economy

### **Session IV.1.9**

#### **Compilation Issues in Input-Output Tables II**

**Room: Meeting room 2 (120 seats) at Run Run Shaw Conference Center**

Chair: Bent Thage

(Three papers)

Yusuf Siddiqi

Capitalization of Research and Development: The Canadian Experience

Alexander Elbert

Trade Margins of Israel – Methods and Problems of Calculations

Bent Thage

Symmetric Input-Output Tables: Compilation Issues

### **Session IV.1.10**

#### **Effects of Trade Liberalization in Developing Countries**

**Room: Room 1506 (120 seats) at Teaching Building No. 1**

Chair: Pierre Mohnen

(Three papers)

D.P. Pal and D.Basu

Economic Integration: A Systemic Measure in I-O Framework

Chandrima Sikdar, Thijs ten Raa, Pierre Mohnen and Debesh Chakraborty

India-Bangladesh Bilateral Trade in the Context of Globalization: A General Equilibrium  
Approach

Vijay K. Bhasin and Camara Obeng

Trade Liberalisation, Foreign Borrowing, Poverty, and Income Distributions of Households in  
Ghana

11:00–11:15 Coffee Break

11:15–13:00

**PLENARY SESSION 2**

**Input Output: Whence and Whither?**

**Conference Hall 1 (392 seats) at Run Run Shaw Conference Center**

Organizer and Chair: Anne P. Carter

Anne P. Carter

Input Output and Mainstream Economics in the United States: Research Strategy and Representation of Technology

Emilio Fontela, Antonio Pulido and Gabrielle Antille Gaillard

Input-Output in Europe: Trends in Research and Applications

Masahiro Kuroda

Input-Output Analysis of the Japanese Economy: Structural Analysis and its Application

Andras Brody

Time's Arrow and Errors in Data and/or Computation in Leontief Models

13:00–14:30 Lunch break

Afternoon

**8 PARALLEL SESSIONS IV.2 (14:30–16:00)**

14:30–16:00

**Session IV.2.1**

**China's Economic Growth and Input-Output Analysis III**

**Room: Conference Hall 1 ( 392 seats ) at Run Run Shaw Conference Center**

Chair: Li Shantong

Jin Fan, Qingwu Zheng, Yan Wang and Xiaohui Yuan

Scenario Analysis on the Influence of Improving the RMB Exchange Rate Regimes Forming Mechanism on the China's Macro Economy-General Equilibrium Analysis

Jing He

An Empirical Analysis of Macrocconomic Response to Crude Oil Price Volatility in China by Using the Input-Output Models

Gao Ying and He Jianwu

Study on Application of Structural Path Analysis Method within a SAM Framework

**Session IV.2.2**

**Session moved to Tuesday.**

**Session IV.2.3**

**Environmental Impacts in Input-Output Models**

**Room: Conference Hall 2 (180 seats) at Run Run Shaw Conference Center**

Chair: Peter Ryrmose Jensen

Bui Trinh, Francisco Secretario, Kwangmoon Kim and Duong Manh Hung

Construction of Mega City's Inter-Regional Input-Output Table for Vietnam by the Hybrid Approach

Bui Trinh, Francisco Secretario, Le Ha Thanh, Kwangmun Kim and Nguyen Thuy Duong

Economic Environmental Impact Analysis Based on a Bi-region Interregional I-O Model for Vietnam

Peter Ryrmose Jensen and Thomas Olsen

Structural Decomposition Analysis of Air Emissions in Denmark 1980-2002

**Session IV.2.4**

**New Applications of Input-Output Modeling II**

**Room: Meeting room 2 (120 seats) at Run Run Shaw Conference Center**

Chair: Erik Dietzenbacher

Rodrigo Simões  
Spatial Industrial Complexes; Spatial Accessibility Matrix and Fuzzy Logic Approach, Minas Gerais - Brazil

Joost R. Santos  
Impact Assessment of Major Economic Disruptions using the Inoperability Input-Output Model (IIM)

M. Alejandro Cardenete Flores and M. Carmen Lima  
Impact Assessment of European Structural Funds in Andalusia: a CGE Approach

### **Session IV.2.5**

#### **Economic Theory and Input Output I**

**Room: Room 1504 (120 seats) at Teaching Building No.1**

Chair: Thijs ten Raa

Hartmut Kogelschatz  
On the Solution of Stochastic Input-Output Models

Zonghie Han and Bertram Schefold  
An Empirical Investigation of Paradoxes (Reswitching and Reverse Capital Deepening) in Capital Theory

Jose Ramon Guzman  
Bifurcations of an Input-Output Reaction Diffusion Model

16:00-16:30 Coffee Break

### **Session IV.2.6**

#### **Water as Important Natural Resources II**

**Room: Room 1503 (180 seats) at Teaching Building No.1**

Chair: Klaus Hubacek

(two papers)

Takayuki Hatano and Takaaki Okuda  
Virtual Water Analysis on the Yellow River Basin Using Multi-Regional I-O Tables

Dabo Guan, Klaus Hubacek and Laixiang Sun  
Virtual Water Flows in China: Input-output Analysis for Hydro-economic Regions

### **Session IV.2.7**

#### **Leontief Multipliers and Inducement Analysis**

**Room: Room 1505 (120 seats) at Teaching Building No.1**

Chair: Roland Lantner

Ho Un Gim  
The Overestimation Problem in the Leontief Multiplier: A Suggested Solution Based on "the General Relation"

Akiko Nakajima

Decomposition of Employment Inducement Coefficients Case of Japan, USA and ROK

Roland Lantner

Interdependence, Feedback Loops and Leontief Inverse

### **Session IV.2.8**

#### **Developments in Multisectoral Modeling**

**Room: Room 1104 (120 seats) at Teaching Building No.1**

Chair: Jan Oosterhaven

Nuria Gómez Sanza, Luis Antonio López Santiago, María Ángeles and Tobarra Gómez  
Foreign Outsourcing and Industrial Employment: The Case of Spain 1993-2002

Pham Quang Ngoc and Pierre Mohnen  
Optimal Choice of Ownership Structure in Vietnam

Lining He and Faye Duchin  
Agriculture and Regional Development in China: A Structural Analysis of Scenarios about the Future

#### **16:30-18:30 Members' meeting**

Dinner

#### **EVENING COURSES 19:00-21:00**

**Room: Room 1505 ( 120 seats ) at Teaching Building No.1**

Course 3A:

Yusuf Siddiqi

Compiling Regional Input-Output Tables

or

**Room: Room 1506 ( 120 seats ) at Teaching Building No.1**

Course 3B:

Liv Hobbelstad Simpson, Janja Kalin and Marek Rojicek

Supply and Use Tables as compilation framework for Supply and Use Tables and Input-Output Tables in Constant Prices

## DAY V

Friday, July 1, 2005

Morning

### 8 PARALLEL SESSIONS V.1 (9:00–10:30)

#### Session V.1.1

**Input-output and Environmental Accounting: Introducing the System of Integrated Environmental and Economic Accounting 2003 (SEEA-2003) IV: Environmental Accounting for Solid Waste, Energy and Materials Embodied in International Trade**

**Room: Room 1104 (120 seats) at Teaching Building No.1**

Organizer: Glenn-Marie Lange

Chair: Jan van Tongeren

Wang Yixuan

Energy Accounts of China, Compilation and Use

O.G. Pedersen

Waste Accounts Based on Physical Input-Output Tables

Aldo Femia

Calculation of Indirect Material Flows of Imported Products in an Incomplete Economy: Combining IO Analysis and Technical Coefficients

#### Session V.1.2

**New Developments in Compiling Input-Output Tables V: Constructing input-output table and Social Accounting Matrix – Lessons and New experience**

**Room: Room 1503 (180 seats) at Teaching Building No.1**

Organizer: Jiemin Guo and Mark Planting

Chair: Motaz Khorshid

Motaz Khorshid

Problems of Expanding the Input-Output tables to a Comprehensive Social Accounting Matrices: Lessons of Experience from the Middle East Countries.

F. Bazzazan, M. Alavinasab, A.A. Banouei

Construction Regional Input-Output Table and Its Applications

Edoardo Pizzoli

From Firm's and Farms' Balance-Sheets to the National Input-Output Table: An Empirical Investigation for 2000 Year

#### Session V.1.3

**New Approach in Regional Modeling and Their Applications in the Analysis of China's Regional Development (II)**

**Room: Conference Hall 1 (392 seats) at Run Run Shaw Conference Center**

Organizer: Karen R. Polenske and Zhi Wang

Moderator: Karen R. Polenske

Chair: Zhi Wang

Li Shantong and Duan Zhigang

Macroeconomic Effects of Olympic Economy on the Beijing and Rest of China

Ning Ai and Karen R. Polenske

Application and Extension of Input-Output Analysis in Economic-Impact Analysis of Dust Storms: A Case Study in Beijing, China

Yu-Hung Hong

Assessing Property Tax Reform in China: An Input-Output Analysis

Xiaoyu Shi

Energy Prices and Intensity in China

**Session V.1.4**

**Applications of Dynamic Models**

**Room: Meeting room 2 (120 seats) at Run Run Shaw Conference Center**

Chair: Jing He

Raja M. Albqami

Determine the Impact of Money Supply on the Real Economic Growth

Burkhard Schade

A System Dynamics Model to Evaluate Economic Feasibility of Environmentally: Sustainable Scenarios with an Integrated Input-Output-Table

Jing He

A Dynamic Computable General Equilibrium Model to Calculate Shadow Prices of Water Resources: Implications for China

**Session V.1.5**

**Economic Theory and Input-Output II**

**Room: Conference Hall 2 (180 seats) at Run Run Shaw Conference Center**

Chair: Thijs ten Raa

Giuseppe Freni, Fausto Gozzi and Neri Salvadori

Existence and Uniqueness of Balanced Growth Paths in an Endogenous Growth Multisector Linear Model

Liu Xinjian

A Relative Theory of National Production

Thijs ten Raa

Debreu's Coefficient of Resource Utilization, the Solow Residual, and TFP: The Connection by Leontief Preferences

**Session V.1.6**

**Linkage Analysis II**

**Room: Meeting room 1 (70 seats) at Run Run Shaw Conference Center**

Chair: Michael L. Lahr

Raufdeen Rameezdeen, Nisa Zainudeen and Thanuja Ramachandra  
Study of Linkages between Construction Sector and other Sectors of the Sri Lankan Economy

Paramita Dasgupta and Debesh Chakraborty  
The Structure of the Indian Economy

B.Patro, A.K. Patro and N.Acharya  
Structural Change of the Orissan Economy: an Analysis between 1994-95 and 2001-02

**Session V.1.7**

**Compilation Issues in Input-Output Tables III**

**Room: Room 1504 (120 seats) at Teaching Building No.1**

Chair: Luc Avonds

Jari Kauppila  
Applying Input-Output Approach in Economic History: The Finnish Economy at the Dawn of the Great Depression of the 1930s

Natalino Martins  
Symmetrizing and Deflating in the Construction of the Portuguese Input-Output Tables for 1995 and 1999

Filippo Moauro and Riccardo Corradini  
Volume Measures of Input-Output Table in a Time Series Perspective: a Proposal for Italy

Michel Braibant  
Comparison of Input-Output tables in Different Countries

**Session V.1.8**

**RAS and other Bioproportional Methods and Applications**

**Room: Room 1505 (120 seats) at Teaching Building No.1**

Chair: Jan Oosterhaven

Jane Kiringai  
Updating an Input-Output Table with Insufficient Information: A Kenyan Example

Manfred Lenzen, Blanca Gallego and Richard Wood



A Flexible Approach to Matrix Balancing under Partial Information

Jan Oosterhaven and Bertus G. Talsma

GRAS and RAS versus Minimizing Absolute and Squared Differences in Coefficients

10:30-11:00 Coffee Break

## **7 PARALLEL SESSIONS V.10 (11:00–12:30)**

### **Session V.2.1**

#### **New Developments in Compiling Input-Output Tables VI: Special Issues on I-O Data**

**Room: Conference Hall 1 (392 seats) at Run Run Shaw Conference Center**

Organizer: Jiemin Guo and Mark Planting

Special Issues on I-O Data

Chair: Erik Dietzenbacher

Milan Jayasinghe

On the Mechanics of Measuring the Production of Financial Institutions: New Insights from Canadian Experience

Zhao Jinwen

Diagnostics High Leverage Cases and Influential Observations in Regression Analysis

Erik Dietzenbacher, Vito Albino and Silvana Kühtz

The Fallacy of Using US-Type Input-Output Tables

### **Session V.2.2**

#### **Regional CO2 Emission and Pollution**

**Room: Meeting room 2 (120 seats) at Run Run Shaw Conference Center**

Chair: Kakali Mukhopadhyay

Ryoji Hasegawa

Regional Comparisons and Decomposition Analyses of CO2 Emission in Japan

Pongsun Bunditsakulchai

Price-endogenized Inter-industry Approach with Goods and Bads - Theory and Application –

Kakali Mukhopadhyay, Debesh Chakraborty and Erik Dietzenbacher

Pollution Haven and Factor Endowment Hypotheses Revisited: Evidence from India

### **Session V.2.3**

#### **Regional Input-Output Modeling**

**Room: Room 1503 (180 seats) at Teaching Building No.1**

Chair: Ma Zhong

Liu Lin-qing and Tan Li-wen

Identification of Mage-Clusters with the Method of Maxima: Application to Hubei Province

Mina Mahmoodi

Analysis of the Link between Input-Output and Population at the Regional Level: The Case of Yazd Province of Iran

Ma Zhong, Chen Bo and Shang Haiyang

Compilation and Application of Local Input-Output Table: A Case of Gansu Province of China

#### **Session V.2.4**

##### **Energy Consumption in China**

**Room: Room 1504 (120 seats) at Teaching Building No.1**

Organizer and Chair: Chen Xikang

Eryuan Wang

Input-Output Analysis of Energy Consumption

Baiding Hu

An Analysis of Energy Intensity in China

Baiding Hu

Modelling Sectoral Fuel Demand in China

#### **Session V.2.5**

##### **Structural Issues in Development Process**

**Room: Room 1506 (120 seats) at Teaching Building No.1**

Chair: XU Jian

Ding Jingzhi, Min Qi and Lin Yi

Forecast of Crude Oil Price and Its Impact on China's Economy

Kenneth U. Nnadi

A Quantitative Economics of Structural Interdependencies in Nigeria's Real Sector

Fu Xue

Impact of Increase of Industries Fixed Capital Investment on Chinese Economy

#### **Session V.2.6**

##### **Application of I-O Model in China**

**Room: Room 1505 (120 seats) at Teaching Building No.1**

**Chair: Lei Ming**

Zhang Yi and Xie Yiping

The R&D Spillovers Studies on the Hebei Province of China by I-O Analysis

Zhang Jin and Qin Xiaotie

The Application of High Technology I-O Model

Ruan Dacheng

Research on Operation Efficiency Discrepancy in Shanghai Banking Industry ---- Empirical Analysis Based on DEA

Yu Zhongming

The Combination of Enterprise Input-Output Method and Financial Cost Calculation Method

**Session V.2.7**

**Application of I-O Analysis**

**Room: Room 1104 (120 seats) at Teaching Building No.1**

**Chair: Li Jingping**

XU Ming and ZHANG Tianzhu

A Physical Input-output Analysis for Chinese economy

Andrés Blancas

The Inter-Institutional Linkage Analysis: A SAM Approach

12:30–14:00 Lunch break

ZHANG Mingqian and ZHAO Yanyun

The Cluster Analysis of Guangdong Province of China Using I-O Data

Afternoon

**14:00–15:30**

**Round Table Discussions**

**Room : Conference Hall 1 (392 seats) at Run Run Shaw Conference Center**

**16:00–16:15 Closing Ceremony**

**Room : Conference Hall 1 (392 seats) at Run Run Shaw Conference Center**

**END OF CONFERENCE**

**17:00-18:30 Council Meeting (only for Council Members)**