



The 2008 International Input-Output Meeting

Input - Output & Environment

SEVILLE

July 9 - 11, 2008

Summary Programme

(Topics)

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Sustainable development: Water	2f, 7d
Sustainable Society	1f



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Programme

Wednesday, 9th July

- 08:30 - 09:30 Registration
- 09:30 - 10:30 **Opening ceremony**
- 10:30 - 11:30 **Plenary session (1):**
Economy-wide models in integrated assessment of climate policy
Joyashree Roy, Inter-Governmental Panel on Climate Change, Jadavpur University (India)
Chair: T. ten Raa
- 11:30 - 12:00 Coffee break
- Poster sessions (1):**
- p1 *A goal programming approach for a joint design of macroeconomic and environmental policies: a methodological proposal and an application to the Spanish economy*
F. J. André, M. A. Cardenete and C. Romero
 - p2 *CO₂ emission from solar power satellite - Tether Satellite System*
K. Asakura, S. Nakano and K. Yoshioka
 - p3 *Interindustry linkages and firm size: does it make a difference? An empirical illustration for Spain*
E. Fernández and I. Romero
 - p4 *Employment and income distribution in the Brazilian economy: an interregional Leontief-Miyazawa model approach*
J. Ghilhoto and F. Sartori de Camargo
 - p5 *How the CO₂ emissions are related with the Brazilian productive structure?*
D. Imori and J. Ghilhoto
- 12:00 - 13:30 **Parallel sessions (1):**
- 1a Sustainable development: Air emissions (I)**
Chair: N. Sakurai
- 1a1 *Controlling greenhouse gas emissions via natural gas substitution: an input-output study for Turkey*
N. A. Bhutto and S. Cagatay
 - 1a2 *Estimating CO₂ emissions from the combustion of petroleum derivatives. An AGE model for Spain: 2000-2010*
E. Febrero, C. Córcoles, M. A. Cadarso and L.A. López-Santiago
 - 1a3 *The compilation of a Greek environmental input-output matrix for 2005 and its application as a methodological framework for assessing emission reduction options*
Ch. Economidis, D. Keramidas, A. Demertzi, N. Stropoulos, A. Sfetsos and D. Vlachogiannis
- 1b Input-Output analysis of disasters**
Chair: A. E. Steenge
- 1b1 *An input-output analysis of the economic impact of natural disasters: a case study for the Prestige oil-spill*
D. Fuentes Castro and M. Fernández Fernández
 - 1b2 *An adaptive regional input-output model and its application to the assessment of the economic cost of Katrina*
S. Hallegatte
 - 1b3 *Measuring potential effects of production peaks of global non-renewable key (GNORK) resources within the concept of economic disaster*
C. Kerschner and K. Hubacek
- 1c Economic-Ecological input-output modeling**
Chair: K. Kratena
- 1c1 *Estimating carbon footprints with input-output models*
H. S. Matthews, C. L. Weber and C. T. Hendrickson
 - 1c2 *Regional metabolism analysis model based on three dimensional PIOT and its preliminary application*
Y. Xu and T. Zhang
 - 1c3 *A monetary measure for ecological footprints of domestic final demand - an UK example*
K. Kratena and T. Wiedmann
- 1d Monetary, Physical and Hybrid Input-Output Analysis (I)**
Chair: S. Nakamura
- 1d1 *Reduction of industrial waste and CO₂ emission: evidence from microdata linked with the IO table of Japan*
S. Nakano and H. Hayami
 - 1d2 *Technical considerations in the compilation of regional or interregional waste input-output table*
M. Tsukui and K. Nonaka
 - 1d3 *Ferrous material flow and contamination of tramp elements: towards sustainable recycling and efficient resource management*
K. Yokoyama, K. Nakajima, E. Yamasue, K. Nansai and T. Nagasaka
 - 1d4 *Input-output MFA as a tool for sustainable management of material stocks with application to capital matrix*
S. Nakamura, K. Nakajima, K. Yokoyama and Y. Kondo
- 1e EXIOPOL Session (I)**
Chair: A. Tukker
- 1e1 *EXIOPOL: Philosophy and main approach*
A. Tukker
 - 1e2 *Aligning and transforming SUT and IO data for the EU27 and RoW countries in EXIOPOL*
T. van Bree, T. Hawkins, W. Manshanden and E. Poliakov
 - 1e3 *Creating a global environmental database for input-output applications. Environmental extensions in the EXIOPOL project*
S. Moll, J. Acosta, S. Giljum, S. Lutter, T. Pulles and J. Kuenen
- 1f Sustainable Society**
Chair: G. Hewings
- 1f1 *Demographic profiling of Canadian greenhouse gas emissions*
H. Messinger and J. St. Lawrence
 - 1f2 *Growth, poverty and distribution: a SAM approach*
M. Y. Saari, E. Dietzenbacher and B. Los
 - 1f3 *Does a change in retirement age affect a regional economy? Evidence from the Chicago economy*
S. Park and G. Hewings

13:30 - 15:30 Lunch break

15:30 - 17:00

Parallel sessions (2):

2a Sustainable development: Air emissions (II)

Chair: J. Roy

- 2a1 *A computable general equilibrium approach to trade and environmental modeling in the Malaysian economy*
A. H. Al-Amin and Ch. Siwar
- 2a2 *Structural change and lifestyle effects on industrial air emissions*
R. Kamaruddin and M. K. H. Hassan
- 2a3 *The changing structures of greenhouse gas emissions and managerial applications: Canada and Japan, 1990-2000*
H. Hayami and M. Nakamura

2b Session in honour of Chris de Bresson

Chair: P. Kaminski

- 2b1 *In honour of Christian de Bresson: input-output analysis, technological innovation, sustainable development and social economics*
P. Kaminski
- 2b2 *Impact studies without multipliers: lessons from Quesnay's Tableau Economique*
A. E. Steenge and R. van den Berg
- 2b3 *Export-driven growth pattern rediscovery: the decomposition of China's imports for 1997-2005*
J. Pei, J. Oosterhaven, E. Dietzenbacher and C. Yang

2c Structural change and dynamics

Chair: P. Antonello

- 2c1 *Decoupling of energy consumption and air emissions from economic growth in Denmark 1966 to 2006?*
T. Olsen and P. R. Jensen
- 2c2 *Environmental input-output analysis, structural decomposition analysis and uncertainty*
A. Yamakawa and G. Peters
- 2c3 *An application of the EM algorithm to the analysis of structural change through input-output*
P. Antonello and A. Beccarini

2d Input-Output modeling in policy making (I)

Chair: J. C. Parra

- 2d1 *Impacts of EU options for post-Kyoto in the medium term - results from the GINFORS model*
Ch. Lutz, B. Meyer and A. Jungnitz
- 2d2 *Imaclim-R: an innovative hybrid model to foster the dialogue on sustainable pathways, energy policies and climate stabilization*
R. Crassous-Doerfler, O. Sassi, J. C. Hourcade, H. Waisman, C. Guivarch and V. Gitz
- 2d3 *Climate change, agricultural productivity and poverty in West Africa*
J. C. Parra and Q. Wodon

2e EXIOPOL Session (II)

Chair: A. Tukker

- 2e1 *Methodology for the construction of an international supply-use table*
M. C. Bouwmeester and J. Oosterhaven
- 2e2 *Commodity classification and valuation system conversions of household demand in the IO framework. Methodological aspects and implications*
I. Mongelli, F. Neuwahl, J. M. Rueda-Cantuche and A. Villanueva
- 2e3 *Comparison of the emission intensities of industries across European economies*
T. Hawkins

2f Sustainable development: Water (I)

Chair: C. Lin

- 2f1 *A role for input-output analysis in urban water policy decisions in Australia*
A. Chanan, J. Kandasamy and D. Sharma
- 2f2 *Environmental impact of regional port infrastructure improvement in the Philippines*
C. Goce-Dakila
- 2f3 *An input-output model of wastewater treatment*
C. Lin

17:00 - 19:00

First Constitutional Assembly of the Hispanic-American Input-Output Society (SHAIO)
(open to all interested people)



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Thursday, 10th July

08:30 - 09:00 Registration

09:00 - 10:30

Parallel sessions (3):

3a Sustainable development: Air emissions (III)

Chair: Ch. Economidis

- 3a1 *Towards environmental labeling: offshoring and sustainable development*
M. A. Cadarso, N. Gómez, L. A. López and M. A. Tobarra
- 3a2 *Economic 'responsibility' for CO₂ emissions*
L. Cruz and E. Barata
- 3a3 *Quantifying environmental leakage for Belgium*
A. A. Sissoko and G. Vandille
- 3a4 *Responsibility and trade emission balances: two approaches for the same concept?*
M. Serrano and E. Dietzenbacher

3b Drivers of changes for China's economy

Chair: K. Hubacek

- 3b1 *The nature of China's foreign trade: Heckscher-Ohlin trade theory re-examined*
J. Pei, J. Oosterhaven, E. Dietzenbacher and C. Yang
- 3b2 *The contribution of Chinese exports to climate change*
C. L. Weber, G. Peters, D. Guan and K. Hubacek
- 3b3 *The drivers of Chinese CO₂ emissions from 1980 to 2030*
D. Guan, K. Hubacek, C. L. Weber, G. Peters and D. M. Reiner

3c Methodological aspects of Input-Output (I)

Chair: C. Lager

- 3c1 *Energy decomposition analysis: the generalized Fisher index revisited*
P. de Boer
- 3c2 *An exploration of a Markov cluster approach to the identification of fundamental economic structure: the case of Indonesia*
M. H. Imansyah, A. Bustaman, M. McGovern, G. West and R. Jensen
- 3c3 *Spatial structural path analysis - analysing the greenhouse impacts of trade substitution*
R. Wood
- 3c4 *The Coase theorem revisited in a multisectoral framework*
C. Lager and A. E. Steenge

3d Sustainable development: Energy (I)

Chair: A. Loeschel

- 3d1 *An energy AGE model. Forecasting energy demand in Spain*
O. de Juan, N. Gómez, D. Pedregal, M.A. Tobarra and J. Zafrilla
- 3d2 *A dynamic multisectoral and multiregional model towards a middle-term integrated assessment: an alternative of DEARS model*
S. Mori, Y. Wada, K. Imai and M. Ohkura
- 3d3 *From final energy consumption to primary energy requirements and CO₂ emissions. A methodological approach using energy balances. Application to Catalonia, 1990-2005*
V. Alcántara, E. Padilla and J. Roca
- 3d4 *Implementing the EU energy package - implications for energy intensive industries*
A. Loeschel

3e Productivity and efficiency analysis

Chair: B. Los

- 3e1 *Decomposing TFP growth in Turkish manufacturing industries: alternatives and implications*
K. Ali Akkemik
- 3e2 *Competitive environment, wage inequality and efficiency of the Indian economy*
A. Sahoo and T. ten Raa
- 3e3 *Estimating CO₂ efficiency of bioethanol production*
T. Hayashi, K. Masuda and M. Yamamoto

3f Input-Output studies applied to Spanish regions (organized by SHAI0)

Chair: C. Ramos and J. M. Rueda-Cantucho

- 3f1 *Presentation of the Hispanic-American Input-Output Society (SHAI0)*
C. Ramos and M. A. Tarancón
- 3f2 *Grading the IO coefficients importance. A fuzzy approach*
A. Morillas, L. Robles and B. Diaz
- 3f3 *Water saving through the modernization of irrigation technology in the productive sector in Andalusia. A CGE approach*
M. A. Cardenete and E. Velázquez
- 3f4 *Water consumption based on a disaggregated social accounting matrix of Huesca*
I. Cazcarro and J. Sánchez-Chóliz

10:30 - 11:00 Coffee break

Poster sessions (2):

- p6 *Regional economy and regional machinery sector in Japan: analysis of regional input-output tables in accordance with a size of enterprises*
T. Ishiro
- p7 *The economic impact of a limitation on production in a linear programming input-output model*
W. Koller
- p8 *Comparative analysis of greenhouse gas emissions multipliers for six European countries (1995-2000): a NAMEA approach*
A. Belegri-Roboli, S. Lapatsioras, M. Markaki and P. Michaelides
- p9 *Environmental accounting matrices for Spanish economy on year 2000 SAMEA*
C. Morilla, M. A. Cardenete and G. Llanes
- p10 *Industrial technology policy analysis by IO analysis of knowledge industry in Japan*
Y. Nakano
- p11 *A framework for assessing the biocomplexity of material use*
J. K. Choi, B. R. Bakshi and T. Haab

11:00 - 12:30

Parallel sessions (4):

4a Sustainable development: Air emissions (IV)

Chair: H. Hayami

- 4a1 *Environmental analysis of household activity in Aragon*
M. Flores, J. Sánchez-Chóliz and R. Duarte
- 4a2 *CO₂ emissions from Chinese imports*
C. Gaston and L. Dong
- 4a3 *The measurement of CO₂ embodiments in international trade: evidence from the OECD Input-Output tables for the mid 1990s - early 2000s*
S. Nakano, A. Okamura, N. Sakurai, M. Suzuki, Y. Tojo and N. Yamano

4b Session in honour of Emilio Fontela

Chair: F. Duchin

- 4b1 *Avoiding dangerous climate change: the role of input-output in modeling a zero-carbon global economy*
T. Barker
- 4b2 *Scenario based input-output models using cross-impact analysis: a review*
José M. Rueda-Cantucho
- 4b3 *Social accounting matrices in a world modeling context: the role of resources and resource rents*
F. Duchin and C. López-Morales

4c Methodological aspects of Input-Output (II)

Chair: D. Guan

- 4c1 *The robustness of measures to key parameter estimates in a CGE model*
S. M. Lin, M. Y. Hsu, L. R. Lu and J. H. Lin
- 4c2 *Accounting the estimation error of environmental multi-region input-output models*
J. Rodrigues and T. Domingos
- 4c3 *Full biophysical and socio-economic carbon accounting for the UK*
K. Feng, K. Hubacek, Y. Siu, M. Termansen, M. Kirkby and B. Irvine

4d Monetary, Physical and Hybrid Input-Output Analysis (II)

Chair: G. Peters

- 4d1 *Linking structure and agents to evaluate the regional economic and environmental implications of agro-ecosystems management in Southern Spain*
D. Nainggolan, K. Hubacek, M. Termansen and M. Reed
- 4d2 *Comparison of environmental multipliers of monetary and physical Leontief inverse*
I. Mäenpää
- 4d3 *Comparing physical and monetary units in environmental analysis using input-output models*
R. Jorge, T. Hawkins and G. Peters

4e International trade and logistics (I)

Chair: N. Dihel

- 4e1 *Dynamics of free trade agreements in East Asian countries*
K. Mukhopadhyay and P. J. Thomassin
- 4e2 *Producer services and trade in manufactured goods*
H. K. Nordas
- 4e3 *The economic partnership agreements (EPAs), services liberalisation and trade in goods: examining the missing link*
N. Dihel and L. Nilsson

4f Input-Output and Supply Chain Management

Chair: V. Albino

- 4f1 *Enterprise input-output accounting: a non-deterministic approach*
E. Settanni and J. Emblemsvag
- 4f2 *Application of life cycle based coefficients for imports in environmentally extended input-output models*
J. Weinzettel and J. Kovanda
- 4f3 *Economic and environmental performance of agro-energy production chains*
V. Albino, A. C. Garavelli, A. Messeni Petruzzelli and M. Yazan
- 4f4 *The environmental sustainability of production chains in concrete industry. An enterprise input-output approach*
V. Albino, A. Messeni Petruzzelli and M. Yazan

4g Institute of Statistics of Andalusia: Special Session 1

Chair: E. Manzanera

- 4g1 *Los flujos comerciales en el Marco Input-Output de Andalucía 2005*
M. C. Fernández Cuevas and C. Martín Núñez
- 4g2 *Métodos de identificación y evaluación de clusters a partir de tablas input-output: una aplicación para Andalucía*
C. Ramos and L. Robles
- 4g3 *Articulación sectorial y efectos multiplicadores en el sistema productivo de Andalucía. Análisis comparativo a partir de los Marcos Input-Output para los años 1990 y 2000*
A. Titos Moreno

12:30 - 13:30

Plenary session (2):

A CGE analysis of the relative price sensitivity required to induce rebound effects in response to an improvement in energy efficiency in the UK economy

Karen Turner, University of Strathclyde (Scotland, UK)

Chair: B. Thage

13:30 - 15:30

Lunch break

15:30 - 17:00

Parallel sessions (5):

5a Sustainable development: Energy (II)

Chair: K. Mukhopadhyay

- 5a1 *The impact of demographic change on energy use and greenhouse gas emissions*
T. Kronenberg
- 5a2 *The carbon footprint of UK households 1990-2004: a socio-economically disaggregated, quasi-multi-regional input-output model*
A. Druckman and T. Jackson
- 5a3 *An empirical study on interdependency of environmental load and international IO structure in the Asia-Pacific region*
M. Shimoda, K. Fujikawa and T. Watanabe
- 5a4 *Energy use and GHG emissions in India*
K. Mukhopadhyay and D. Chakraborty

5b Sustainable consumption (I)

Chair: O. de Juan

- 5b1 *The relationship between household expenditures and environment impacts*
A. Kerckhof, S. Nonhebel and H. Moll
- 5b2 *Environmental impacts of household consumption in Germany 1995-2005*
H. Mayer
- 5b3 *Input-output modeling for scenario analysis of the Indian household energy use*
K. Shimpou, K. Hikita, S. Nakano, A. Okamura and M. Shukla
- 5b4 *Microsimulation with SAM multipliers*
K. Nogue, J. P. Nganou, C. Tsimpou and Q. Wodon

5c Input-Output modeling using make and use tables: methodology and applications

Chair: J. Guo

- 5c1 *Application of IO models to use and destination tourism accounts*
C. Manrique de Lara-Peñate, M. C. Langa-Seva and D. Santos-Peñate
- 5c2 *The choice of model in the construction of industry coefficients matrices*
José M. Rueda-Cantucho and T. ten Raa
- 5c3 *On the impossibility of calculating the product technology in the supply-use model*
L. de Mesnard

5d Environmental multi-regional input-output modeling (I)

Chair: M. Lenzen

- 5d1 *Global dimensions of European natural resource use. Results from the Global Resource Accounting Model (GRAM)*
S. Giljum, Ch. Lutz, A. Jungnitz, M. Bruckner and F. Hinterberger
- 5d2 *New Zealand's carbon balance: MRIO applied to a small developed country*
R. Andrew, G. Peters and J. Lennox
- 5d3 *Emissions embedded in UK trade - UK-MRIO model results and error estimates*
T. Wiedmann, R. Wood, J. Minx, M. Lenzen and R. Harris
- 5d4 *Uncertainties in constructing environmental multi-regional input-output models*
Ch. Weber

5e Input-Output Economics and Network Theory (I)

Chair: S. Suh

- 5e1 *Bridging disciplines over network theory and analysis around input-output economics*
S. Suh, S. Kagawa and K. Nansai
- 5e2 *An application of Markov chains to global supply chains*
F. Duchin and S. Levine
- 5e3 *An environmental world linkage behind Japanese household consumption: global link input-output model*
K. Nansai, S. Kagawa, S. Suh, S. Tohno and Y. Moriguchi
- 5e4 *Evolution of industrial carbon flow network in Japan 1975-2000: A Laplacian graph analysis*
S. Kagawa, S. Suh, K. Nansai and Y. Kondo

5f Input-Output modeling in policy making (II)

Chair: G. Günluk-Senesen

- 5f1 *What matters most? Identifying the key issues in environmentally extended input-output models with sensitivity analysis*
T. Mattila, J. Seppälä, I. Mäenpää and S. Koskela
- 5f2 *Environmental Taxes in Andalusia: A computable general equilibrium approach*
M. A. Cardenete, P. Fuentes and C. Polo
- 5f3 *How to assess the global environmental impacts caused by a national economy?*
J. Seppälä, S. Koskela, T. Mattila, I. Mäenpää, M. R. Korhonen, M. Saarinen, J. M. Katajajuuri, Y. Virtanen and A. Nissinen
- 5f4 *Impacts of taxes on oil use: a retrospective analysis for Turkey*
G. Günluk-Senesen and U. Senesen

17:00 - 19:00

Council meeting (Council members)



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Friday, 11th July

08:30 - 09:00 Registration

09:00 - 10:30 **Parallel sessions (6):**

6a Practical aspects of input-output: multipliers

Chair: L. de Mesnard

6a1

A new kind of production multipliers to assess scale and structure effects of demand shocks in input-output frameworks
J. Dias, J. Ferreira do Amaral and J. C. Lopes,

6a2

Econometric estimates of the Danish CO₂ emission multipliers on the basis of make and use tables
José M. Rueda-Cantucho and A. F. Amores

6a3

Economic impact and sectoral pollution effects in the Greek economy
Ch. Tzimos

6b Sustainable consumption (II)

Chair: J. Roca

6b1

Environmental impacts of European consumption and production patterns
S. Moll, D. Watson, I. van de Sand, O. G. Pedersen and P. Kazmierczyk

6b2

Determining factors in the evolution of greenhouse effect gases in the European Union - Influence of consumption patterns
R. Duarte, A. J. Mainar and J. Sánchez-Chóliz,

6b3

Environmental impacts of alternative consumption patterns with their related income and price changes
K. Takase and Y. Kondo

6b4

Atmospheric pollution and consumption patterns in Spain
J. Roca and M. Serrano

6c Methodological aspects of Input-Output (III)

Chair: M. L. Lahr

6c1

Modeling the environmental impacts of Finnish imports using the EE-IO method and various data sources
S. Koskela, I. Mäenpää, M. R. Korhonen, M. Saarinen, J. M. Katajajuuri and J. Seppälä

6c2

Expanding extractions
E. Dietzenbacher and M. L. Lahr

6c3

Input-Output analysis: an impact study
B. Los

6d Environmental multi-regional input-output modeling (II)

Chair: K. Turner

6d1

GHG emissions in the global supply chain of food products
J. Minx, G. Peters, T. Wiedmann and J. Barrett

6d2

Analysis of the sustainability of supply chains with a multi-regional input-output model
H. Wilting

6d3

Do industries with emission constraints have legitimate competitiveness concerns?
G. Peters

6d4

A comparison of results from MRIO and interregional CGE analyses of the impacts of a positive demand shock on the "CO₂ trade balance" between Scotland and the rest of UK
M. Gilmartin, J. K. Swales and K. Turner

6e Input-Output Economics and Network Theory (II)

Chair: S. Kagawa

6e1

Triangularization of input-output table and material flow analysis
Y. Kondo

6e2

Feedback loops and closed-loop recycling as a driver for dynamics
E. Settanni and R. Heijungs

6e3

A new approach to the selection of key sectors: net forward and net backward linkages
J. Oosterhaven

6e4

Network theory and input-output economics: towards a common understanding
S. Kagawa and S. Suh

6f Input-Output studies applied to Brazil

Chair: J. Ghilhoto

6f1

The economic impacts, national and regional, of the 2008-2011 Brazilian Federal Government's Pluriannual Plan
E. P. Domingues, M. B. Lemos, J. B. S. Ferreira Filho, J. A. Giesecke and M. J. Horridge

6f2

Assessing the economic impacts of transportation infrastructure policies in Brazil
E. Haddad, F. Perobelli, E. Domingues and M. Aguiar

6f3

Model composition of cargo transportation and income inequality in Brazil
C. R. Azzoni and J. Ghilhoto

6f4

Combining geoprocessing and interregional IO systems: an application to the State of Sao Paulo in Brazil
S. M. Ichihara, J. Guilhoto and D. Imori

6g Institute of Statistics of Andalusia: Special Session 2

Chair: E. Manzanera

6g1

Las cuentas satélite como extensión de los sistemas Input-output: aspectos metodológicos y estadísticos a partir de la experiencia de España
A. Cañada

6g2

La cuenta satélite del turismo de Canarias
V. P. González García and D. J. Lorenzo Díaz

6g3

Las estadísticas ambientales del INE: encuestas básicas e investigaciones de síntesis
P. Revilla

10:30 - 11:00 Coffee break

Poster sessions (3):

p12

Life cycle assessment of a solar thermal power plant using two different approaches: LCA and EIO-LCA
C. de la Rúa, Y. Lechón, N. Caldés and R. Sáez

p13

On the economic impact of the pipeline project between Russian and Germany
H. Shcherbich

p14

Labour productivity difference in China 1987-1997: an interregional decomposition analysis
L. Yang

p15

Structural change and income distribution across ethnic groups: a SAM decomposition approach
M. Y. Saari, E. Dietzenbacher and B. Los

p16

Economic impact of biotechnology - a prospective input-output analysis for Germany
S. Wydra

p17

CO₂ emissions coefficients in Portugal: an input-output approach
J. Martins, J. Marques, M. Marques and E. Castro

11:00 - 12:30

Parallel sessions (7):

7a Sustainable development: Energy (III)

Chair: M. A. Cardenete

7a1 *Liberalization in the Turkish electricity market: a CGE analysis*

K. Ali Akkemik

7a2 *Economic and environment impacts of coal mining on small region in Indonesia*

M. H. Imansyah and L. Fatah

7a3 *Sequential decision-making in interdependent sectors with multiobjective inoperability decision trees: application to biofuel subsidy analysis*

J. Santos, K. Barker and P. Zelinke III

7a4 *Renewable energy in Austria: modeling possible development trends until 2020*

A. Stocker, A. Grossmann, R. Madlener and M. I. Wolter

7b Spatial input-output modeling

Chair: E. Fernández

7b1 *Structural analysis of Tehran province based on interregional input-output model*

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

7b2 *Polluting my neighbours: linking environmental accounts to a multi-regional input-output model for Italy*

S. Bertini and R. Panicià

7b3 *Hybrid interregional input-output construction methods. Phase One: estimation of RPCs*

F. Escobedo and J. Oosterhaven

7b4 *The national and regional impacts of exports on value added in Austria*

N. Bayerl, O. Fritz, R. Hierländer and G. Streicher

7c SNA methods (organized by the Institute of Statistics of Andalusia)

Chair: N. Yamano

7c1 *Development of a time series of Australian input-output tables and greenhouse emissions*

R. Wood

7c2 *Compilation of regional input-output tables in Russia*

A. Sayapova and S. Slobodyanik

7c3 *Integrating the TSA and input-output methodology in tourism impact studies*

A. M. van de Steeg and A. E. Steenge

7d Sustainable development: Water (II)

Chair: V. Alcántara

7d1 *Effects of international trade on water consumption in Turkey: a static input-output analysis*

E. Tunali and O. Aydogus

7d2 *Application of village level input-output model for assessing ground water use efficiency*

S. K. Varghese and G. van Huylenbroeck

7d3 *Input-output model for assessing the water footprint. The case of Spain*

C. Madrid, A. Y. Hoekstra and V. Alcántara

7e International trade and logistics (II)

Chair: J. Oosterhaven

7e1 *Environmental regulation and sectoral development*

T. ten Raa and V. Shestalova

7e2 *Does industry-level analysis of trade-related technology spillovers support the conclusions obtained at an aggregate level? Evidence for non-G7 countries*

R. B. Castro Núñez

7e3 *International fragmentation, specialization and comparative advantage: an Asian-Pacific input-output approach*

M. C. Bouwmeester and J. Oosterhaven

7e4 *Vertical specialization in an intercountry input-output framework*

E. Dietzenbacher and B. Zhao

7f Input-Output modeling in policy making (III)

Chair: Ch. Lutz

7f1 *Growth linkages and policy effects in a village economy in Ethiopia: an analysis of interactions using a social accounting (SAM) framework*

T. F. Agaje

7f2 *The local economic impact of an island renewable energy project: a SAM-based analysis of the importance of ownership/revenue sharing*

G. Allan, P. McGregor, J. K. Swales and K. Turner

7f3 *Natural gas price shocks impact on industries in Ukraine*

T. Tyshchuk

12:30 - 13:30

Plenary session (3):

Foreign immigration and internal migration patterns: a decomposition analysis of inter-regional migrations between Spanish regions

E. Fernández, A. S. García and C. Ramos (University of Oviedo, Spain)

Chair: E. Dietzenbacher

13:30 - 14:00

Closing ceremony

President: J. Oosterhaven

14:00 - 15:30

Lunch break

15:30 - 17:00

Parallel courses:

PC1 SimSIP SAM: Policy Analysis under a SAM framework

J. C. Parra and Q. Wodon

Georgetown University and the World Bank

PC2 Household Consumption Modeling in the Input-Output framework

I. Mongelli and K. Kratena

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