



# **28th IIOA Conference on Langkawi Island, Malaysia**

*CONFERENCE PROGRAM*

28/Aug/2022 - 02/Sep/2022



**International Input-Output Association**

Vienna, AUSTRIA

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

**PROGRAM OVERVIEW**

Time	Mon, 29/Aug/2022	Tue, 30/Aug/2022	Wed, 31/Aug/2022	Thu, 01/Sep/2022	Fri, 02/Sep/2022
08:00 - 08:30	Main Desk and Registration Open (all day)	Main Desk and Registration Open (all day)	Main Desk and Registration Open (all day)	Main Desk and Registration Open (all day)	Main Desk and Registration Open (all day)
08:30 - 09:00					
09:00 - 09:30	ISIOA Session 1	Opening Ceremony	Flash Session 1	Flash Session 2	Parallel Session 7
09:30 - 10:00		Plenary Session 1	Plenary Session 2	Plenary Session 3	
10:00 - 10:30			Coffee Break	Coffee Break	
10:30 - 11:00		Coffee Break		Coffee Break	
11:00 - 11:30	ISIOA Session 2	Coffee Break	Parallel Session 3	Parallel Session 5	Closing Ceremony
11:30 - 12:00		Parallel Session 1			
12:00 - 12:30	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break and Excursion
12:30 - 13:00					
13:00 - 13:30		Parallel Session 2	Parallel Session 4	Parallel Session 6	
13:30 - 14:00					
14:00 - 14:30	ISIOA Session 3	Parallel Session 2	Parallel Session 4	Parallel Session 6	
14:30 - 15:00					
15:00 - 15:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
15:30 - 16:00	ISIOA Session 4	Coffee Break	Relax and Recharge in Chenang Beach	IIOA Annual General Assembly	
16:00 - 16:30		ISIOA Session (online)			
16:30 - 17:00					
17:00 - 17:30	IO Buddies				
17:30 - 18:00					
18:00 - 18:30	Welcome Reception to the IIOA Conference	Young Researchers' Night		Conference Dinner and Cultural Night	
18:30 - 19:00					
19:00 - 19:30					
19:30 - 20:00					
20:00 - 20:30					
20:30 - 21:00					

## SESSION PLAN

### Sun, 28/Aug/2022

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- 08:00 - 09:00 *Main Desk and Registration Open (all day)*  
Location: **Ballroom Foyer**  
2nd floor  
From 8 a.m. through 6 p.m. participants can register for the conference.
- 09:00 - 17:30 *International Input-Output Association (IIOA) Annual Council Meeting*  
Location: **Crystal**  
For IIOA Council Members only!  
3rd floor
- 17:30 - 20:00 *International School of Input-Output Analysis (ISIOA) Welcome Reception*  
Location: **Ballroom Foyer**  
For ISIOA students, trainers and IIOA council members.  
2nd floor

### Mon, 29/Aug/2022

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- 08:00 - 09:00 *Main Desk and Registration Open (all day)*  
Location: **Ballroom Foyer**  
2nd floor  
From 8 a.m. through 6 p.m. participants can register for the conference.
- 09:00 - 10:30 *ISIOA Session 1*  
MODULE 2  
Topic: National Accounting Matrices and R&D Spillovers (NAMRD) - I  
Lecturer: Luis Pedauga  
Room: Ruby (2nd floor)
- MODULE 3  
Topic: ICIO tables and GVC indicators (ICIO) - I  
Lecturers: Norihiko Yamano and Colin Webb  
Room: Emerald (2nd floor)
- MODULE 4  
Topic: History of Input-Output Analysis (HIOA) - I  
Lecturers: Heinz Kurz and Christian Lager  
Room: Jade (2nd floor)
- 10:30 - 11:00 *Coffee Break*  
Location: **Ballroom Foyer**
- 11:00 - 12:30 *ISIOA Session 2*  
MODULE 2  
Topic: National Accounting Matrices and R&D Spillovers (NAMRD) - II  
Lecturer: Luis Pedauga  
Room: Ruby (2nd floor)
- MODULE 3  
Topic: ICIO tables and GVC indicators (ICIO) - II  
Lecturers: Norihiko Yamano and Colin Webb  
Room: Emerald (2nd floor)
- MODULE 4  
Topic: History of Input-Output Analysis (HIOA) - II  
Lecturers: Heinz Kurz and Christian Lager  
Room: Jade (2nd floor)
- 12:30 - 14:00 *Lunch Break*  
Location: **Flamingo Coffee House**  
1st floor
- 14:00 - 15:30 *ISIOA Session 3*  
MODULE 1  
Topic: Input-Output for Dummies (IODUM) - I (online)  
Lecturer: Erik Dietzenbacher  
Room: Diamond (2nd floor)

MODULE 2

Topic: National Accounting Matrices and R&D Spillovers (NAMRD) - III

Lecturer: Luis Pedauga

Room: Ruby (2nd floor)

MODULE 3

Topic: ICIO tables and GVC indicators (ICIO) - III

Lecturers: Norihiko Yamano and Colin Webb

Room: Emerald (2nd floor)

MODULE 4

Topic: History of Input-Output Analysis (HIOA) - III

Lecturers: Heinz Kurz and Christian Lager

Room: Jade (2nd floor)

15:30 - 16:00

*Coffee Break*

Location: **Ballroom Foyer**

16:00 - 17:30

*ISIOA Session 4*

MODULE 1

Topic: Input-Output for Dummies (IODUM) - II (online)

Lecturer: Erik Dietzenbacher

Room: Diamond (2nd floor)

MODULE 2

Topic: National Accounting Matrices and R&D Spillovers (NAMRD) - IV

Lecturer: Luis Pedauga

Room: Ruby (2nd floor)

MODULE 3

Topic: ICIO tables and GVC indicators (ICIO) - IV

Lecturers: Norihiko Yamano and Colin Webb

Room: Emerald (2nd floor)

MODULE 4

Topic: History of Input-Output Analysis (HIOA) - IV

Lecturers: Heinz Kurz and Christian Lager

Room: Jade (2nd floor)

17:30 - 18:30

*IO Buddies*

Location: **Ballroom Foyer**

2nd floor

18:30 - 20:30

*Welcome Reception to the IIOA Conference*

Location: **Ballroom Foyer**

2nd floor

**Tue, 30/Aug/2022**

- 08:00 - 09:00 *Main Desk and Registration Open (all day)*  
Location: **Ballroom Foyer**  
2nd floor  
From 8 a.m. through 6 p.m. participants can register for the conference.
- 09:00 - 10:00 *Opening Ceremony*  
Location: **Ballroom**  
2nd floor
- 10:00 - 11:00 *Plenary Session 1*  
Location: **Ballroom**  
Chair: Sanjiv Mahajan, Office for National Statistics  
Heinz D. Kurz (The University of Graz): The true mystery of the world is the visible, not the invisible.
- 11:00 - 11:30 *Coffee Break*  
Location: **Ballroom Foyer**

**11:30 - 13:00 Parallel Session 1**

6 session rooms.

- Location: **Aquamarine**  
Topic: **Sustainable production and consumption I (Chair: Shigemi Kagawa, Kyushu University)**  
Chair: Shigemi KAGAWA
  1. Investigating Sustainable Urban Structures toward a Decarbonized Society  
by *Chisato HOSOSHIMA, Shigemi KAGAWA*
  2. Circular economy inside the policy structures: a multisectoral approach  
by *Francesca SEVERINI, Jacopo ZOTTI, Rosita PRETAROLI, Claudio SOCCI*
  3. Has the ICT sector become the engine of China's economic growth?  
by *JAMAL KHAN, Yongming HUANG, Yanan ZHANG, Xiaoli NAN*
- Location: **Crystal**  
Topic: **An Input-Output Analysis for Disaster Damage: A Case Study on the Tokyo Epicentral Earthquake (Chair: Kiyoshi Fujikawa, Aichi Gakuin University)**  
Chair: Kiyoshi Fujikawa
  1. Conventional Input-Output models to estimate economic damage of earthquakes.  
by *Kiyoshi FUJIKAWA, Mitsuru SHIMODA, Takatoshi WATANABE*
  2. Resource allocation model for estimation of economic damage of earthquakes  
by *Takatoshi WATANABE, Kiyoshi FUJIKAWA, Mitsuru SHIMODA*
  3. Bottleneck model for estimation of economic damage of earthquakes  
by *Mitsuru SHIMODA, Kiyoshi FUJIKAWA, Takatoshi WATANABE*
- Location: **Diamond**  
Topic: **Handbook on Extended Supply and Use Tables I (Chair: Jose M. Rueda-Cantuche, European Commission)**  
Chair: José M. RUEDA-CANTUCHE
  1. Handbook of extended supply and use tables & practical applications  
by *Oscar LEMMERS*
  2. The usefulness of Japan's extended input-output tables incorporating firm heterogeneity  
by *Satoru HAGINO, Jiyoung KIM*
  3. Multinational groups in the Belgian economy: An investigation with extended input-output tables  
by *Bernhard MICHEL*
- Location: **Emerald**  
Topic: **Regional input-output modeling I (Chair: Everlam Montibeler, The Federal Rural University of Rio de Janeiro)**  
Chair: Everlam E. MONTIBELER
  1. Comparative analysis of endogenization methods of the final demand component parts  
by *Alsu SAYAPOVA, Vildan GAI AZOV, Rustam ISHBULATOV*
  2. Dimension and formalization impacts of Rio de Janeiro's Shadow Economy: an input-output based method design and insights from real data  
by *Everlam E. MONTIBELER, Filipe Vasconcelos ROCHA, Rodrigo Emmanuel SANTANA BORGES*
  3. The analysis of Carbon dioxide emission structure based on the similarities of economic structure using IO analysis and clustering analysis  
by *Kayoko SHIRONITTA, Shigemi KAGAWA, Yasushi KONDO*

- Location: **Jade**  
Topic: **Productivity and efficiency analysis I (Chair: Douglas S. Meade, Inforum)**  
Chair: Douglas S. MEADE
  1. An Integrated Input-Output Based Method of Multifactor Productivity Measurement  
by *Douglas S. MEADE*
  2. Spatial Stochastic Frontier Models  
by *Takahiro TSUKAMOTO*
- Location: **Ruby**  
Topic: **Input-output and the network theory I (Chair: Keisuke Nansai, National Institute for Environmental Studies of Japan)**  
Chair: Keisuke NANSAI
  1. Factor Decomposition Analysis of Changes in CO2 Emissions from Container Shipping  
by *Taiga SHIMOTSUURA, Shigemi KAGAWA, Tomoaki YOSHIZAWA*
  2. Circularity Reinforcement of Critical Raw Materials in Europe: An Input-Output Analysis for the Case of Niobium  
by *Devrim Murat YAZAN, Theresa Simone FREIIN VON RENNENBERG, Luca FRACCASCIA*

13:00 - 14:30      *Lunch Break*  
Location: **Flamingo Coffee House**  
1st floor

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**14:30 - 16:00      Parallel Session 2**

6 session rooms.

- Location: **Aquamarine**  
Topic: **Sustainable production and consumption II (Chair: Shuning Chen, Kyushu University)**  
Chair: Shuning Chen
  1. Resource-based Industries and CO2 Emissions Embedded in Value Chains: a regional analysis for selected countries in Latin America  
by *Eduardo Rodrigues SANGUINET, Carlos R AZZONI, Augusto Mussi ALVIM*
  2. Changes in income of different household types and the impact on UK consumption-based emissions and climate policy  
by *Lena KILIAN, Anne OWEN, Andy NEWING, Diana IVANOVA*
  3. Inclusive Wealth Footprint for Cities of Japan: Regional clusters for Sustainable Development  
by *Shuning CHEN, Kenichi KURITA, Takako WAKIYAMA, Shunsuke MANAGI, Shigemi KAGAWA*
- Location: **Diamond**  
Topic: **Handbook on Extended Supply and Use Tables II (Chair: Jose M. Rueda-Cantuche, European Commission)**  
Chair: José M. RUEDA-CANTUCHE
  1. Dealing with incomplete data in Extended Supply and Use Tables: various strategies and practical implications  
by *José M. RUEDA-CANTUCHE, Juan Manuel VALDERAS JARAMILLO*
  2. Accounting for within-industry firm heterogeneity in an Inter-Country Input-Output system  
by *Norihiko YAMANO, Colin WEBB*
- Location: **Emerald**  
Topic: **Regional input-output modeling II (Chair: Vishnu Prabhu, Gokhale Institute of Politics and Economics)**  
Chair: Vishnu Sivadasa Prabhu
  1. Economy-wide impact of climate smart agriculture in India - using a SAM framework  
by *Ananya AJATASATRU, Kakali MUKHOPADHYAY, Vishnu Sivadasa PRABHU*
  2. CO2 Mitigation through Similarity Analysis of Production Technologies and Lifestyles of Nations  
by *Waka NISHIFUJI, Kayoko SHIRONITTA, Haruka MITOMA, Shigemi KAGAWA*
  3. Empirical Analysis of Carbon Footprint Considering Production Activities of Informal Sector  
by *Haruka MITOMA*
- Location: **Jade**  
Topic: **Productivity and efficiency analysis II (Chair: Douglas S. Meade, Inforum)**  
Chair: Douglas S. MEADE
  1. Dynamics and regional heterogeneity in power generation efficiency of PV power plants in Japan focusing on new market entrants  
by *Shogo EGUCHI, Yuya NAKAMOTO, Hirotaaka TAKAYABU*
  2. CO2 mitigation through the efficiency improvements in the medical sector of Japan  
by *Daigo USHIJIMA, Tomoaki NAKAISHI, Haruka MITOMA, Shigemi KAGAWA*

- Location: **Ruby**  
Topic: **Input-output and the network theory II (Chair: Fumiya Nagashima, Kindai University)**  
Chair: Fumiya NAGASHIMA
  1. Identifying Environmentally-important Shipping Routes and Ports in the Global Supply-chain Network  
by *Tomomi SHODA, Shigemi KAGAWA, Keitaro MAENO, Taiga SHIMOTSUURA, Taiga SHIMOTSUURA*
  2. Carbon Footprint Analysis Based on the Structural Position in the Global Supply-Chain Networks  
by *Fumiya NAGASHIMA, Shohei TOKITO, Tesshu HANAKA*
- Location: **Topaz**  
Topic: **Global value chain analysis II (Chair: Kirsten S. Wiebe, SINTEF industry)**  
Chair: Kirsten S. WIEBE
  1. Digitalization, positioning in global value chain and carbon emissions embodied in exports  
by *Yanan ZHANG, Yongming HUANG, JAMAL KHAN*
  2. Estimating SDG impacts through GVCs on countries that are in the ICIO's Rest of the World region  
by *Kirsten S. WIEBE, Carl-Johan H. SÖDERSTEN, Moana SIMAS*

16:00 - 16:30 *Coffee Break*  
Location: **Ballroom Foyer**

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**16:30 - 18:00 ISIOA Session (online)**

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MODULE 1

Topic: Input-Output for Dummies (IODUM) - III

Lecturer: Erik Dietzenbacher

Room: Diamond (2nd floor)

Topic: Input-Output for Dummies (IODUM) - IV

Lecturer: Erik Dietzenbacher

Location: Online

18:30 - 21:00 *Young Researchers' Night*  
Location: **Charlie's Bar & Grill**  
Address: Fisherman's Wharf Langkawi, Jalan Dato Syed Omar, 07000 Kuah, Kedah.

**Wed, 31/Aug/2022**

- 08:00 - 09:00 *Main Desk and Registration Open (all day)*  
Location: **Ballroom Foyer**  
2nd floor  
From 8 a.m. through 6 p.m. participants can register for the conference.
- 09:00 - 09:30 *Flash Session 1*  
Location: **Ballroom**  
Chair: Jiyoung Kim, Okayama University
- 09:30 - 10:30 *Plenary Session 2*  
Location: **Ballroom**  
Chair: Shigemi Kagawa, Kyushu University  
Keisuke Nansai (National Institute for Environmental Studies, Japan): Input-output analysis of climate risks
- 10:30 - 11:00 *Coffee Break*  
Location: **Ballroom Foyer**

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

5 session rooms.

- Location: **Crystal**  
Topic: **Employment analysis (Chair: Rodrigo Emmanuel Santana Borges, Complutense University of Madrid)**  
Chair: [Rodrigo Emmanuel Santana Borges](#)
  1. The role of foreign labour employment in emerging economic sustainability: A comparative input-output analysis by *Bawani LELCHUMANAN, Mohd Nasir Nasir MOHD SAUKANI, Noorasiah SULAIMAN*
  2. Constructing interregional input-output tables for Negeri Sembilan Malaysia for assessing sources of economic leakages by *Nurul Sakinah NGAINI, MUHAMMAD ANAS NABIL AL-FATTAH MUHAMMAD YAZID, Muhammad Daaniyall ABD RAHMAN, M. Yusof SAARI*
  3. Contemporary world market, values and depreciation: insights from the World Labour Values Database by *Everlam E. MONTIBELER, Rodrigo Straessli Pinto FRANKLIN, Everlam E. MONTIBELER, César SÁNCHEZ*
- Location: **Diamond**  
Topic: **Consumption-based accounting (Chair: Bart Los, University of Groningen)**  
Chair: [Bart LOS](#)
  1. Functional Specialization in Global Supply Chains and the Environmental Performance of Countries by *Bart LOS, Xianjia YE*
  2. Discovering fixed-capital categories resulting in significant material and carbon footprints, with application to Japanese material flow by *SHO HATA, Keisuke NANSAI, Kenichi NAKAJIMA*
  3. Carbon footprint of cities based on micro-consumption data by *Keiichiro KANEMOTO, Jemyung LEE, Daniel MORAN, Yosuke SHIGETOMI*
- Location: **Emerald**  
Topic: **Global value chain analysis III (Chair: Carmen Zürcher, OECD)**  
Chair: [Carmen Zürcher](#)
  1. Economic implications of Mega Trade Agreements on South Asia - A CGE Approach by *Zulekha QADEER*
  2. Estimation and Applications of OECD Inter-Country Input-Output (ICIO) Tables in Previous Year Prices (PYP) by *Carmen ZÜRCHER, Sebastien MIROUDOT, Carmen ZÜRCHER*
  3. Does Input Digitization Promote the Share of Factor Rewards and Their Embedding Depth in the Global Value Chains? —A perspective based on domestic value-added decomposition in export by *Xue DONG, Yongming HUANG, Qaiser JAMAL, Iian XUE, Yanan ZHANG*
- Location: **Ruby**  
Topic: **Computable General Equilibrium Modeling and Social Accounting Matrices I (Chair: Stefano Deriu, University of Macerata)**  
Chair: [Stefano Deriu](#)
  1. Tax elimination on terminal handling charges of the sectoral importers: assessing the economic effects in Brazil by *Andressa Lemes PROQUE, Admir Antonio BETARELLI JUNIOR, Edson Paulo DOMINGUES, Weslem Rodrigues FARIA, Aline Souza MAGALHÃES*
  2. The market rigidity hypothesis in a multisectoral CGE approach by *Stefano DERIU, Rosita PRETAROLI, Francesca SEVERINI, Claudio SOCCI*



- Location: **Topaz**  
 Topic: **Social accounting matrix and its applications (Chair: Keisuke Nansai, National Institute for Environmental Studies, Japan)**  
 Chair: Keisuke NANSAI
  1. The economic impact of a tourist tax in Andalusia examined through a price effect model  
 by *Paula Villegas MARTOS, Manuel A. CARDENETE, María C. DELGADO*
  2. Measuring food-energy-water nexus footprint using a systematic input output approach: case study of Pune, India  
 by *Ananya AJATASATRU, Shraddha SHRIVASTAVA, Vishnu Sivadasa PRABHU, Ananya AJATASATRU*

12:30 - 14:00      *Lunch Break*  
 Location: **Flamingo Coffee House**  
 1st floor

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**14:00 - 15:30      Parallel Session 4**

Development Programme session. 6 session rooms.

- Location: **Aquamarine**  
 Topic: **Structural Decomposition Analysis (Chair: Jose M. Rueda-Cantuche, European Commission)**  
 Chair: José M. RUEDA-CANTUCHE
  1. Decomposition of Supply, Demand, Trade and Value Chain Driven Determinants of Structural Change  
 by *Klemen KNEZ*
  2. Structural change and greenhouse gas emissions: a case study for Argentina during the period 2000-2016  
 by *German ZAMORANO*
- Location: **Crystal**  
 Topic: **Classical IO applications (Chair: Bernhard Michel, Federal Planning Bureau of Belgium)**  
 Chair: Bernhard MICHEL
  1. Measuring regional value chains  
 by *Xue HAN, Norihiko YAMANO*
  2. The medium-high and high-intensity technology sectors in Mexico and Brazil: a structural decomposition analysis between 2000-2014  
 by *Patieene Alves PASSONI*
- Location: **Diamond**  
 Topic: **Methodological aspects of input-output analysis (Chair: Bart Los, University of Groningen)**  
 Chair: Bart LOS
  1. Environmental responsibility and exposure of finance: combining Environmentally-extended Input-Output and Balance Sheet approaches  
 by *Paul HADJI-LAZARO*
  2. Evaluation of the fiscal recovery regime in State of Rio de Janeiro: a CGE analysis  
 by *Filipe Vasconcelos ROCHA*
- Location: **Emerald**  
 Topic: **Input-output analysis for policy making (Chair: Jing Meng, University College London)**  
 Chair: Jing Meng
  1. A marginal extraction analysis for low-carbon global supply chains.  
 by *Keitaro MAENO*
  2. Emphasis on domestic value added in the era of global value chains: evidence from Thailand  
 by *Wannaphong DURONGKAVEROJ*
- Location: **Jade**  
 Topic: **Computable General Equilibrium Modeling and Social Accounting Matrices (Chair: Mun S. Ho, Harvard University)**  
 Chair: Mun Sing Ho
  1. COVID-19 and Income distribution - A case study of South Asia  
 by *Hadya Fatima CHEEMA*
  2. Border Carbon Adjustment: An empirical investigation into the politics of climate change  
 by *Radhika PIPLANI*
- Location: **Ruby**  
 Topic: **IO modeling (Chair: Satoshi Inomata, Institute of Developing Economies, JETRO)**  
 Chair: Satoshi INOMATA
  1. Regional economic impacts of the Brumadinho tailing dam rupture disaster in Minas Gerais (Brazil) based on labor productivity changes  
 by *Cláudio Eurico Seibert Fernandes da SILVA, Thais Diniz OLIVEIRA, Rayan WOLF*

2. Impact of UK – Japan Comprehensive Economic Partnership Agreement (CEPA): Options for UK and Japan  
by *Muhammad Omer KHAN, Muhammad Aamir KHAN*

15:30 - 16:00     *Coffee Break*  
Location: **Ballroom Foyer**

16:00 - 18:00     *Relax and Recharge in Chenang Beach*

**Thu, 01/Sep/2022**

- 08:00 - 09:00 *Main Desk and Registration Open (all day)*  
Location: **Ballroom Foyer**  
2nd floor  
From 8 a.m. through 6 p.m. participants can register for the conference.
- 09:00 - 09:30 *Flash Session 2*  
Location: **Ballroom**  
Chair: Jiyoung Kim, Okayama University
- 09:30 - 10:30 *Plenary Session 3*  
Location: **Ballroom**  
Chair: M. Yusof Saari, University Putra Malaysia
- 10:30 - 11:00 *Coffee Break*  
Location: **Ballroom Foyer**

**11:00 - 12:30 Parallel Session 5**

5 session rooms.

- Location: **Crystal**  
Topic: **Input-output analysis for policy making I (Chair: Francesco Tonini, Polytechnic University of Milan)**  
Chair: Francesco - Tonini
  1. CO2 Reduction Potential of Expanding Car Sharing Services: The case of Japan  
by *Daisuke YOSHIZAWA, Shigemi KAGAWA, Yuya NAKAMOTO*
  2. Tracing the Incidence of Indirect Taxes through the Production-Distribution Chain: Application to Jordan  
by *Andrey TIMOFEEV*
  3. Multifunctional Analysis of Regions through Input-Output (MARIO) for energy transition policies analysis: the case of Italian private passengers' transport sector.  
by *Francesco - TONINI, Mohammad Amin TAHAVORI, Nicolò GOLINUCCI, Lorenzo RINALDI, Francesco Davide SANVITO, Enrico ARLANGO, Matteo Vincenzo ROCCO, Emanuela COLOMBO*
- Location: **Diamond**  
Topic: **Input-output impact analysis (Chair: Keiichiro Kanemoto, Research Institute for Humanity and Nature)**  
Chair: Keiichiro Kanemoto
  1. Trade between EU countries and the world: Deviations in official inter-country input-output tables and their implications for policy  
by *Pablo PINERO, Zornitsa KUTLINA-DIMITROVA, Giovanni MANDRAS, José M. RUEDA-CANTUCHE*
  2. The complexity of international supply networks and their influence on global income distribution  
by *Rosario CERVANTES, Timur GATAULLIN*
  3. Mapping the deforestation footprint of nations  
by *Nguyen Tien HOANG, Keiichiro KANEMOTO*
- Location: **Emerald**  
Topic: **Structural Decomposition Analysis (Chair: Bart Los, University of Groningen)**  
Chair: Bart LOS
  1. Time Series Datasets of the Embodied Energy and Emission Intensity Data for Japan Using Input-Output Tables  
by *Sora MATSUSHIMA, Shigemi KAGAWA, Keisuke NANSAI, Jinjun XUE*
  2. A Risk Analysis on the Network Concentration of Global Supply Chains  
by *Satoshi INOMATA, Tesshu HANAKA*
- Location: **Ruby**  
Topic: **Computable General Equilibrium Modeling and Social Accounting Matrices II (Chair: Mun S. Ho, Harvard University)**  
Chair: Mun Sing Ho
  1. Production and numerosity of firms in the era of Covid-19: The case of Marche region  
by *Clio CIASCHINI, Ian P. CASSAR, Stefano DERIU*
  2. Analyzing Carbon Pricing Policies using a General Equilibrium Model with production parameters estimated using firm data  
by *Mun Sing HO*
  3. Development of Manpower Projection and Assessment Tool (MPAST) for Labor Market Projection in Malaysia, 2021-2030  
by *Mohd Alzaieri ABDUL, Muhammad Daaniyall ABD RAHMAN, M. Yusof SAARI, Chakrin UTIT*

- Location: **Topaz**  
Topic: **How the rising of emerging economies can reshape the world? I (Chair: Jing Meng, University College London)**  
Chair: Jing Meng
  1. Full-scale, near real-time multi-regional input-output table for the global emerging economies (EMERGING) by *Peipei CHEN, Huo JINGWEN*
  2. The narrowing gap in carbon emission intensities and its effect on global carbon emissions by *Jing MENG*

12:30 - 14:00      *Lunch Break*  
Location: **Flamingo Coffee House**  
1st floor

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**14:00 - 15:30      Parallel Session 6**

5 session rooms.

- Location: **Aquamarine**  
Topic: **IO Theory I (Chair: Umed Temursho, IOPedia and University of Central Asia)**  
Chair: Umed TEMURSHO
  1. Deflation of Input-Output Tables using a Path-RAS approach by *Fernando DE LA TORRE CUEVAS, Xesús PEREIRA*
  2. The limiting distributions of (country) responsibilities by *Umed TEMURSHO*
- Location: **Diamond**  
Topic: **Energy Input-Output Modeling I (Chair: Kirsten S. Wiebe, SINTEF)**  
Chair: Kirsten S. WIEBE
  1. The current status of Uncertainty in EE-MRIO by *Mohamed BADR*
  2. Inter-industry linkages influence speed and scope of innovation diffusion in the energy transition by *Fabian ROCHA APONTE, Kirsten S. WIEBE*
  3. Modelling the Impact of Clean Environment Cess: Hybrid Energy Input-Output Approach by *Rajat VERMA, Ganesh SIVAMANI*
- Location: **Emerald**  
Topic: **Input-output analysis for policy making II (Chair: Candi Clouse, Cleveland State University)**  
Chair: Candi Clouse
  1. Net Effects of the Russian invasion of Ukraine on the US Economy by *Candi CLOUSE*
  2. Unit Structure Analysis of Oil Price Pressure: The Case of Japan by *Aoi TSUKIOKA, Shigemi KAGAWA, Sora MATSUSHIMA*
  3. Carbon Footprint of Residential Construction Technologies in Japan by *SEIYA IMADA, Shigemi KAGAWA, Keitaro MAENO*
- Location: **Ruby**  
Topic: **Computable General Equilibrium Modeling and Social Accounting Matrices III (Chair: Mohd Yusof Saari, University Putra Malaysia)**  
Chair: M. Yusof SAARI
  1. Economic impact of the Next Generation EU funds in Andalusia through a dynamic applied general equilibrium model for 2021-2026 by *Luz Dary BELTRAN JAIMES, María C. DELGADO*
  2. The role of embeddedness on regional economic resilience by *Simone Maria GRABNER, Andre CARRASCAL INCERA, Tasos KITSOS*
  3. Development of MAC-GREEN for Green Economy Assessment in Malaysia by *Muhamad Zharif Luqman HASHIM, M. Yusof SAARI, Muhammad Daaniyall ABD RAHMAN, Syamsul Herman MOHAMMAD AFANDI, Chakrin UTIT*
- Location: **Topaz**  
Topic: **How the rising of emerging economies can reshape the world? II (Chair: Jing Meng, University College London)**  
Chair: Jing Meng
  1. Rising carbon inequality and its driving factors from 2005 to 2015 by *Heran ZHENG*
  2. Impacts of decent living on national and global carbon emissions by *Huo JINGWEN*

- 15:30 - 16:00 *Coffee Break*  
Location: **Ballroom Foyer**
- 16:00 - 18:00 *IIOA Annual General Assembly*  
Location: **Ballroom**  
2nd floor
- 18:00 - 21:00 *Conference Dinner and Cultural Night*  
Location: **Ombak Villa Langkawi**  
Address: Lot 78, Jalan Kuala Muda, 07100 Langkawi, Kedah.

**Fri, 02/Sep/2022**

08:00 - 09:00 *Main Desk and Registration Open (all day)*  
 Location: **Ballroom Foyer**  
 2nd floor  
 From 8 a.m. through 6 p.m. participants can register for the conference.

**09:00 - 10:30 Parallel Session 7**

4 session rooms.

- Location: **Aquamarine**  
 Topic: **Energy Input-Output Modeling II (Chair: Lorenzo Rinaldi, Politecnico di Milano)**  
 Chair: Lorenzo Rinaldi
  1. Macro-economic impacts of Renewable Energy Transition in India: An Input-Output LCA approach  
 by *Vishnu Sivadasa PRABHU, Kakali MUKHOPADHYAY*
  2. Assessing critical materials demand in global energy transition scenarios based on the Dynamic Extraction and Recycling Input-Output framework (DYNERIO)  
 by *Lorenzo RINALDI, Matteo Vincenzo ROCCO, Emanuela COLOMBO*
  3. A Hybrid Energy Input-Output Table for India: Computing Sectoral Energy Needs and GHG Emissions  
 by *Ganesh SIVAMANI, Rajesh CHADHA*
- Location: **Diamond**  
 Topic: **IO Theory II (Chair: Eva Varga, Hungarian Central Statistical Office)**  
 Chair: Eva Varga
  1. Linking micro-data to national input-output tables: by whom and from whom are which products imported and to what end?  
 by *Timon I. BOHN, Nieke AERTS, Oscar LEMMERS, Khee Fung WONG*
  2. Implementation of a new SUT balancing tool and first experiences  
 by *Eva VARGA*
  3. Measuring I/O-Production in DIGITAL ECONOMY  
 by *Emmenegger JEAN-FRANÇOIS, Hassan Ahmed Nour ELDIN*
- Location: **Emerald**  
 Topic: **Regional IO analysis (Chair: Shigemi Kagawa, Kyushu University)**  
 Chair: Shigemi KAGAWA
  1. Economic and Environmental Consequences of the COVID-19 Pandemic through Foreign Tourists Demand in Japan.  
 by *Yusuke OGA, Shigemi KAGAWA, Tomoaki YOSHIZAWA*
  2. The Effect of Educational Status on Household Energy Consumption in Urban and Rural China  
 by *Lingxiu ZHU, Erik DIETZENBACHER, Cuihong YANG*
- Location: **Ruby**  
 Topic: **Classical IO applications (Chair: Eduardo Moreno Reyes, University of Macerata)**  
 Chair: Eduardo MORENO REYES
  1. Real disaggregate multipliers in different approaches: the Mexican case  
 by *Eduardo MORENO REYES, Maurizio CIASCHINI, Rosita PRETAROLI, Stefano DERIU, Claudio SOCCI*
  2. The role of health-care sector in Malaysia's national economy: An input-output analysis  
 by *Manjeet Kaur HARNEK SINGH, Bawani LELCHUMANAN*
  3. Measuring Technological Change using the Field of Influence Approach to I-O Analysis: Applications to Growth Dynamics in Selected Asian Countries  
 by *Norman De Guzman DYTIANQUIN*

10:30 - 11:00 *Coffee Break*  
 Location: **Ballroom Foyer**

11:00 - 12:00 *Closing Ceremony*  
 Location: **Ballroom**  
 2nd floor

12:00 - 18:30 *Lunch Break and Excursion*  
 Langkawi area.

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ABD RAHMAN, MUHAMMAD DAANIYALL	UNIVERSITI PUTRA MALAYSIA, MALAYSIA	
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AERTS, NIEKE	STATISTICS NETHERLANDS, NETHERLANDS	
AJATASATRU, ANANYA	GOKHALE INSTITUTION OF POLITICS AND ECONOMICS, INDIA	Parallel Session 2, Emerald Parallel Session 3, Topaz Parallel Session 3, Topaz
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SHODA, TOMOMI	KYUSHU UNIVERSITY, JAPAN	Parallel Session 2, Ruby
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