

ICES 2024

8th International Conference on Economic Structures



Pan Pacific Association of Input-Output Studies
Kindai University



March 16-17, 2024
Kindai University, Japan

(Address: Kindai University, 3-4-1 Kowakae, Higashiosaka, Osaka, 577-8502, Japan)

- ◆ Chair of the Organizing Committee: Hiroaki IRIE (Kindai University)
- ◆ Chair of the Scientific Program Committee: Tetsu KAWAKAMI (Kindai University)
- ◆ Website: <http://www.gakkai.ne.jp/papaios/en/conference.html>
- ◆ Contact: ICES_PAPAIOS@ml.gakkai.ne.jp
- ◆ Organized by the Pan Pacific Association of Input-Output Studies (PAPAIOS)
- ◆ Co-organized by Kindai University
- ◆ Sponsored by Asia Pacific Institute of Research ([APIR](#))

The 8th International Conference on Economic Structures (ICES2024)
PROGRAM OVERVIEW

Day 1 – Saturday, March 16, 2024

		Venue A B101	Venue B B502	Venue C B503	Venue D B504	Venue E B505
Opening	9:30 – 10:00	Opening Session Presidential Address	–	–	–	–
Session 1	10:00 – 12:00	Special Session 1 (3)	Int'l Economy & Int'l Development 1 (4)	I-O Analysis of the Korean Economy (4)	Environment, Resource & Energy 1 (4)	Regional I-O
–	12:00 – 13:00	Lunch				
Session 2	13:00 – 14:30	–	Int'l Economy & Int'l Development 2 (3)	Digital Economy & Korean I–O Table (3)	Environment, Resource & Energy 2 (3)	Productivity & Growth 1 (3)
–	14:30 – 15:00	Coffee Break: B501				
Session 3	15:00 – 16:30	–	Special Session 2 (3)	Macroeconomic Modelling & CGE (3)	Environment, Resource & Energy 3(3)	Productivity & Growth 2 (3)
–	16:30 – 17:00	Coffee Break: B501				
Keynote	17:00 – 18:00	Keynote Speech	–	–	–	–
–	18:30 – 20:30	Social Gathering: Building No.7				

* The number in parentheses indicates the number of presentations.

Day 2 – Sunday, March 17, 2024

		Venue A B101	Venue B B502	Venue C B503	Venue D B504	Venue E B505
Session 4	10:00 – 12:00	–	Int'l Economy & Int'l Development 3 (4)	I-O Theory & Techniques (4)	Environment, Resource & Energy 4 (3)	Regional I-O Analysis 2 (4)
–	12:00 – 13:00	Lunch				
Session 5	13:00 – 15:00	–	Special Session 3 (3)	Disaster & COVID-19 (4)	Environment, Resource & Energy 5 (3)	Finance & Monetary Policy (3)

* The number in parentheses indicates the number of presentations.

PRACTICAL INFORMATION

CONFERENCE REGISTRATION

Registration opens at 9:00 a.m. on Saturday, March 16, and will remain open each day until the end of the conference on the 1st floor of Building B.

SESSION FORMAT AND PRESENTATION GUIDELINES

The parallel sessions will take place in the rooms on the 5th floor. Each parallel session will include 2 to 4 papers. Each presenter will have 20 minutes to present their work, followed by 10 minutes of Q&A from the audience. Abstracts and full papers will be available to all participants on the conference website:

<https://www.gakkai.ne.jp/papaios/en/conference.html>

The session rooms will be equipped with projectors that can be connected via an HDMI port. Please note that you are responsible for bringing your own laptop and connecting it to the projector using an HDMI cable. For Mac users, we will prepare HDMI to Type C cable adapters. Please carefully check the date and location of your presentation or chairing session.

WIFI

You can connect to the eduroam (education roaming) network while visiting Kindai University. Free Wi-Fi is also available for visitors in the Building B. How to connect to Wi-Fi is shown on a paper handed out at the event.

COWORKING SPACE

A dedicated quiet working space is available during the conference in Room B201 on the 2nd floor.

LUNCH AND DINNER

Please pick up your lunch on the 5th floor during the conference. Dinner will be served on March 16th at the social gathering in Building No.7. Staff will escort participants to the venue after the keynote session.

Day 1 – Saturday, March 16, 2024

Opening Session

Sat, March 16, 9:30 – 10:00 Venue A (B101)

The present situation of Leontief library

Mikio Suga, President of Pan Pacific Association of Input-Output Studies, Hosei University

Session 1. Special Session: Evaluation of China's environmental policies towards Carbon Neutrality

Sat, March 16, 10:00 – 12:00 Venue A (B101)

ORGANIZER: Kiyoshi Fujikawa, Aichi Gakuin University

1. Plastic recycling policy in China and the waste plastic trade

Tadashi Hayashi, University of Shiga Prefecture

2. Recycling resources from end-of-life vehicles

Yang Li, Zhongnan University of Economics and Law

Kiyoshi Fujikawa, Aichi Gakuin University

3. Optimal location for large-scale wind farms in China

Jiayang Wang, Aichi Gakuin University

Session 1. International Economy and International Development

Sat, March 16, 10:00 – 12:00 Venue B (B502)

CHAIR: Kwangmoon Kim, Kochi University of Technology

1. Exploring the role of informal sector in the poverty issues through estimating an input-output table considering the informal sector

Haruka Mitoma, Kyushu University

Norihiko Yamano, OECD

Ricardo Chiapin Pechansky, OECD

2. Do Non-Monetary Forms of Remittances Matter for Entrepreneurship Development? Evidence from Filipino Migrants in Japan

Mishael Joy Barrera, Ritsumeikan University

Jean-Claude Maswana, Ritsumeikan University

Kazuo Inaba, Ritsumeikan University

3. Do international remittances facilitate formal insurance uptake in developing countries? An empirical assessment using a dynamic model approach

Usman Alhassan, Ritsumeikan University

Emmanuel Umoru Haruna, Kobe University.

Kazuo Inaba, Ritsumeikan University

4, Impact analysis of remittances sent by overseas Filipino workers on Philippine economy based on endogenous consumption type IO multipliers

Kwangmoon Kim, Kochi University of Technology

Session 1. Application of IO Models for the Analysis of the Korean Economy

Sat, March 16, 10:00 – 12:00 Venue C (B503)

CHAIR: Jinmyon Lee, KIET (Korea Institute for Industrial Economics and Trade)

1. Analysis of the economic ripple effects on the smart factory construction project

Youngho Lee, KIET

Hyunji Bing, KIET

2. Analysis of the South Korean solar salt market: Asymmetric stock investment dynamics using threshold vector error correction model

Sujin Oh, Korea University

Byeongseon Seo, Korea University

Session 1. Environment, Resource and Energy

Sat, March 16, 10:00 – 12:00 Venue D (B504)

CHAIR: Yasushi Kondo, Waseda University

1. Impact of global supply chain restructuring on CO2 emissions from international shipping

Shoda Tomomi, Kyushu University

Keitaro Maeno, Kyushu University

Taiga Shimotsuura, Kyushu University

Shigemi Kagawa, Kyushu University

2. Responsibility of Japanese economy for the impacts on aquatic ecosystems arising from induced water consumption in global supply chains

Masaharu Motoshita, National Institute of Advanced Industrial Science and Technology

Kamrul Islam, National Institute of Advanced Industrial Science and Technology

Keisuke Nansai, National Institute for Environmental Studies

Eleonore Pirrat, Technical University of Denmark

Stephan Pfister, ETH Zurich

Francesca Verones, Norwegian University of Science and Technology

Yuichi Iwasaki, National Institute of Advanced Industrial Science and Technology

Wataru Naito, National Institute of Advanced Industrial Science and Technology

3. Global supply chain restructuring towards achieving a low-carbon procurement of mineral resources

Keitaro Maeno, Kyushu University

Shohei Tokito, Yamagata University

Yokoi Ryosuke, National Institute of Advanced Industrial Science and Technology

4. Material footprint of sector groups based on input-output analysis

Session 1. Regional Input–Output Analysis

Sat, March 16, 10:00 – 12:00 Venue E (B505)

CHAIR: Shuning Chen, Kyushu University

1. Key sector identification of Nepal: An integrated approach with linkage and hypothetical extraction method

Lila Ballav Bhusal, Yokohama National University

2. Impact of remittances on rural household welfare and economic growth in Vietnam

Thanh Pham, Ton Duc Thang University

Katsuhiro Saito, University of Tokyo

3. Decomposition of value added in Bangladesh's gross exports to India: A bilateral and sectoral perspective

Rahman Mohammad Sayedur, Ritsumeikan University

Shen Xuemei, Ritsumeikan University

4. Wealth accumulation and structural change of the agricultural sector in Myanmar in relation to international food market

Shuning Chen, Kyushu University

Shunsuke Managi, Kyushu University

Masaru Kagatsume, Kyoto University

Session 2. International Economy and International Development

Sat, March 16, 13:00 – 14:30 Venue B (B502)

CHAIR: Nobuhiro Okamoto, Daito Bunka University

1. The economic implications of China's trade dependence: An analysis of electronics and machinery equipment

Lea Ortega, Yokohama National University

2. Impact of trade facilitation on the trade of post-communist countries of Europe and Central Asia

Elnur Kanybekov, Ritsumeikan University

Kazuo Inaba, Ritsumeikan University

3. Has the U.S.-China trade war changed the landscape of global commodity trade?

Bawoo Kim, Samsung Electronics

Session 2. Digital Economy and Korean IO Table

Sat, March 16, 13:00 – 14:30 Venue C (B503)

CHAIR: Youngho Jung, Bank of Korea

1. The experimental compilation results of 2019 Digital Supply-Use Table

Junsung Kim, Bank of Korea

2. Capturing new industries in 2020 benchmark Input-Output Table

Sang-oh Min, Bank of Korea

3. Impact of import price changes on domestic price

Seong-woon Lim, Bank of Korea

Session 2. Environment, Resource and Energy

Sat, March 16, 13:00 – 14:30 Venue D (B504)

CHAIR: Ching-Cheng Chang, Academia Sinica

1. A supply chain network analysis of energy cost propagation in Japan

Aoi Tsukioka, Kyushu University

Sora Matsushima, Kyushu University

Shigemi Kagawa, Kyushu University

2. Does the 2012 FIT exemption policy improve sectoral energy consumption (savings) in Japan's energy-intensive industry?

Joseph Aduba, Ritsumeikan University

Koji Shimada, Ritsumeikan University

Hiroshi Izawa, Ritsumeikan University

3. The cost-benefit analysis of aquavoltaics operational model in Taiwan

Sin Yee Tan, Academia Sinica

Kenneth Dy, Academia Sinica

Ching-Cheng Chang, Academia Sinica

Session 2. Productivity and Growth

Sat, March 16, 13:00 – 14:30 Venue E (B505)

CHAIR: Takahiko Hashimoto, Ritsumeikan University

1. Investigation on optimal allocations of medical devices (CT/MRI) among prefectures in Japan based on operational efficiency using data envelopment analysis

Daigo Ushijima, Kyushu University

Haruka Mitoma, Kyushu University

Tomoaki Nakaishi, Kyushu University

Shigemi Kagawa, Kyushu University

2. Learning effect as a benefit of resource concentration to leading farmers: Aiming at realizing stable food supply in Japan

Yusuke Fushiki, University of Tokyo

Katsuhiro Saito, University of Tokyo

3. Technology and the terms of trade: A case study of the United State economy

Takahiko Hashimoto, Ritsumeikan University

Session 3. Special Session: China's industrial structure and environmental load

Sat, March 16, 15:00 – 16:30 Venue B (B502)

ORGANIZER: Takatoshi Watanabe, Aichi Gakuin University

1. Change of industrial structure and CO2 emissions in China

Kiyoshi Fujikawa, Aichi Gakuin University

2. Productivity and energy efficiency of Chinese industries

Takatoshi Watanabe, Aichi Gakuin University

3. Carbon leakage in carbon taxes and emissions trading scheme: Taking China as an example

Hikari Ban, Kobe Gakuin University

Kiyoshi Fujikawa, Aichi Gakuin University

Session 3. Macroeconomic Modelling and CGE

Sat, March 16, 15:00 – 16:30 Venue C (B503)

CHAIR: Ken Itakura, Nagoya City University

1. Greenhouse Gas (GHG) Baseline Forecasting for Taiwan's Six Major Sectors Using the Dynamic Computable General Equilibrium Approach

Min-Long Chen, Institute of Economics, Academia Sinica

Sheng-Ming Hsu, Taiwan Research Institute

Hsing-Chun Lin, National Chiayi University

Ching-Cheng Chang, Academia Sinica

Tony Shih-Hsun Hsu, Taiwan Association of Input-Output Study

2. CGE modeling based on the System of Environmental-Economic Accounting (SEEA) and application

Keiji Ujikawa, Yokohama National University

3. Impact of e-commerce agreement on global economy: A dynamic CGE analysis

Ken Itakura, Nagoya City University

Yutaro Kimata, Nagoya City University

Session 3. Environment, Resource and Energy

Sat, March 16, 15:00 – 16:30 Venue D (B504)

CHAIR: Sigemi Kagawa, Kyushu University

1. Exploring embodied carbon emission among Japanese prefectures

Yayue Xiao, Waseda University

Toshihide Arimura, Waseda University

Makoto Sugino, Hosei University

Shiro Takeda, Kyoto Sangyo University

2. Impact of changing the lifespan of container vessels on lifecycle CO2 emissions

Taiga Shimotsuura, Kyushu University

3. Evaluation of economic benefit of reducing natural hazard risks in an offshore wind power development project in Taiwan Strait

Yun Sheng Shen, Taiwan Association of Input-Output studies

Ching-Cheng Chang, Institute of Economics, Academia Sinica

Hsing-Chun Lin, National Chiayi University

Session 3. Productivity and Growth

Sat, March 16, 15:00 – 16:30 Venue E (B505)

CHAIR: Takashi Yagi, Meiji University

1. Analysis of the impacts of Japanese enterprises in Southeast Asia —Creation of an international interregional input-output table that separates Japanese enterprises in 2017—

Xuankun Xia, Yokohama National University

2. Entrepreneurship, Innovation, and Economic Growth in Cities

Zhiwei Jin, Ritsumeikan University

Jie Qin, Ritsumeikan University

3. Adolescents' height and cognitive ability in China

Xiaohang Guo, Shantou University

Hsing-Chun Lin, Nation Chiayi University

Li-Chen Chou, Nation Chung Cheng University

Mengying Wang, Zhejiang Gongshang University

Keynote Speech.

Sat, March 16, 17:00 – 18:00 Venue A (B101)

CHAIR: Satoshi Inomata, Institute of Developing Economies, JETRO

GVC tables: A tool to analyze the past and to build scenarios for the future

Bart Los, University of Groningen

Day 2 – Sunday, March 17, 2024

Session 4. International Economy and International Development

Sun, March 17, 10:00 – 12:00 Venue B (B502)

CHAIR: Bart Los, University of Groningen

1. An exploration of BRI's impact on host countries' global value chains via overseas industrial parks
Suppakorn Khonkhlong, Wuhan University
2. Competitiveness and market positioning of the textile and clothing industry: Has the COVID-19 pandemic changed the trend? A tale of two competing Asian countries
Joseph Aduba, Ritsumeikan University
Shelton Joao, Ritsumeikan University
Behrooz Asgari, Ritsumeikan Asia Pacific University
Hiroshi Izawa, Ritsumeikan University
3. Assessing the influence of three policies on Vietnam's economic development: Electricity infrastructure, globalization, and privatization
Harutaka Takahashi, Kobe University
4. The domestic labor market impacts of GVC participation: Identifying India's GVC upgrade process
Kazuma Takahashi, Hitotsubashi University
Shohei Tokito, Yamagata University
Fumiya Nagashima, Kindai University

Session 4. Theory of Input-Output Techniques

Sun, March 17, 10:00 – 12:00 Venue C (B503)

CHAIR: Satoshi Inomata, Institute of Developing Economies, JETRO

1. Structural change in global value chains in 2010s: Analysis of the standing position of countries in GVCs from the aspects of upstreamness and downstreamness
Kenji Suganuma, SOMPO Institute Plus
2. Input-output analysis with interruption to the multiplier effect: A simulation of production-inventory model
Takayuki Narumi, Yamaguchi University
Shinya Kato, Yamaguchi University
3. ~~Evaluating an economy potential receptivity to import substitution in final use and intermediate consumption~~
~~Vladimir Motorin, National Research University Higher School of Economics~~
4. A new formulation of path-through frequency
Tesshu Hanaka, Kyushu University
Satoshi Inomata, Institute of Developing Economies, JETRO

Session 4. Environment, Resource and Energy

Sun, March 17, 10:00 – 12:00 Venue D (B504)

CHAIR: Katsuhiko Saito, University of Tokyo

1. The impact of extending the economic lifespan of residential buildings on CO2 emissions in Japan
Sora Matsushima, Kyushu University
Shigemi Kagawa, Kyushu university
2. Exploring sustainable practices: The role of enhanced agricultural and food industry waste recycling in reducing CO2 emissions in Taiwan's economy - An input-output analysis approach
Wenhung Huang, National Taiwan University
3. Climate change, yield variation of grains and producers attitude toward risk: Effect on international grain price fluctuation
Katsuhiko Saito, University of Tokyo
Yusuke Fushiki, University of Tokyo
Konomi Saito, Soka University

Session 4. Regional Input-Output Analysis

Sun, March 17, 10:00 – 12:00 Venue E (B505)

CHAIR: Yoshifumi Ishikawa, Nanzan University

1. A non-survey method to estimate Japan's prefectural non-competitive import type input-output table with scrap and by-products
Baixin Li, Waseda University
Yasushi Kondo, Waseda University
2. Assessing the impact of refining the input structure on economic analysis: Focus on the refined sake sector
Suguru Osaki, Kochi University
3. Assessment of the economic impact and carbon emissions of the COVID-19 pandemic on Taiwanese industries
Shu-Yuan Lu, National Taiwan University
Sheng-Ming Hsu, Taiwan Research Institute
4. Mapping Kerala's economic landscape: A non-survey approach to constructing regional input-output tables for 2018-19
Jitendra Kumar Sain, Indian Institute of Technology, Roorkee
Rajat Kumar, Indian Institute of Technology, Roorkee
Amit Agarwal, Indian Institute of Technology, Roorkee
Rishman Jot Kaur Chahal, Indian Institute of Technology, Roorkee

Session 5. Special Session: Applying Inter-Country Input-Output Data in Current and Constant Prices to Analyze the GVCs Dynamics

Sun, March 17, 13:00 – 15:00 Venue B (B502)

ORGANIZER: Masaaki Kuboniwa, Hitotsubashi University and Taiwan National Chengchi University

CHAIR: Makiko Tsukui, Tokyo International University

1. An analysis of international division of labor based on real global input-output tables compiled by Yokohama National University: Visualization of global supply chains using international unit structure
Yuichi Hasebe, Hitotsubashi University and Yokohama National University
2. Measuring economic importance of a country in global context
Shrestha Nagendra, Yokohama National University
3. Analyzing dynamics of growth-GVC nexus through changes in global unit structure
Masaaki Kuboniwa, Hitotsubashi University and Taiwan National Chengchi University

Session 5. The Effect of Disaster and COVID-19 to Economy

Sun, March 17, 13:00 – 15:00 Venue C (B503)

CHAIR: Masaru Ichihashi, Hiroshima University

1. ~~Comparing lodging prices before and during the COVID-19 pandemic: Evidence from the hotel market in Taiwan~~
Mengying Wang, Zhejiang Gongshang University
Hsing-Chun Lin, National Chiayi University
Qi Wu, Xiamen University
Xiao-Hang Guo, Shantou University
Li-Chen Chou, National Chung Cheng University
2. The impact of access to intermediate inputs on the export margins: Firm-level evidence from regression decomposition approach
Mohammad Rayhan Miah, Hiroshima University
Masaru Ichihashi, Hiroshima University
3. Resilience index (RI) development for tsunami impact assessment in South Hokkaido (Donan) region, Japan: A GIS and dynamic CGE approach
Michael Huang, Ocean Policy Research Institute of the Sasakawa Peace Foundation
4. Food supply chain and regional economy's resilience: An application of firm-level production network data amid COVID-19
Kiyotaka Ishikawa, Surugadai University

Session 5. Environment, Resource and Energy

Sun, March 17, 13:00 – 15:00 Venue D (B504)

CHAIR: Fumiya Nagashima, Kindai University

1. The distribution of technology costs needed to decarbonize the iron and steel sector based on shared responsibility

Seiya Imada, Kyushu University

2. Environmental productivity of power generation industry: supply chain performance measurement based on data envelopment analysis and multi-regional input-output analysis

Hiroataka Takayabu, Kindai University

3. Estimation of quality loss of Cr and Ni associated with steel cycle using optimization method

Kentaro Takeyama, University of Tokyo

Riichi Kakimoto, University of Tokyo

Takeo Hoshino, University of Tokyo

Session 5. Finance and Monetary Policy

Sun, March 17, 13:00 – 15:00 Venue E (B505)

CHAIR: Satoru Hagino, Cabinet Office, Government of Japan

1. Concentrated Bank Market and SMEs' Collateral Issues: A Study of the Firms of Developing Asian Countries

Ei Ei Thein, Ritsumeikan University

Atsushi Niigata, Ritsumeikan University

Kazuo Inaba, Ritsumeikan University

2. Fintech and Capital Structure of SMEs

Xingang Liang, Ritsumeikan University

3. Evaluation of U.S. Monetary policy using international financial input-output table for the United States, Euro area and Japan

Satoru Hagino, Cabinet Office, Government of Japan

KEYNOTE SPEAKER



BART LOS

Professor, Faculty of Economics and Business, University of Groningen

Bart is a member of the Groningen Growth and Development Centre (GGDC). His research mainly revolves around the following themes: (i) international trade; (ii) input-output analysis; (iii) innovation and technology diffusion; and (iv) productivity growth.

He (co-)authored articles that appeared in journals like American Economic Review, IMF Economic Review, Journal of Development Economics, Journal of Economic Perspectives, Journal of Regional Science and Research Policy, among others. In 2020 and 2022, he was identified as a Highly-Cited Researcher by Clarivate.

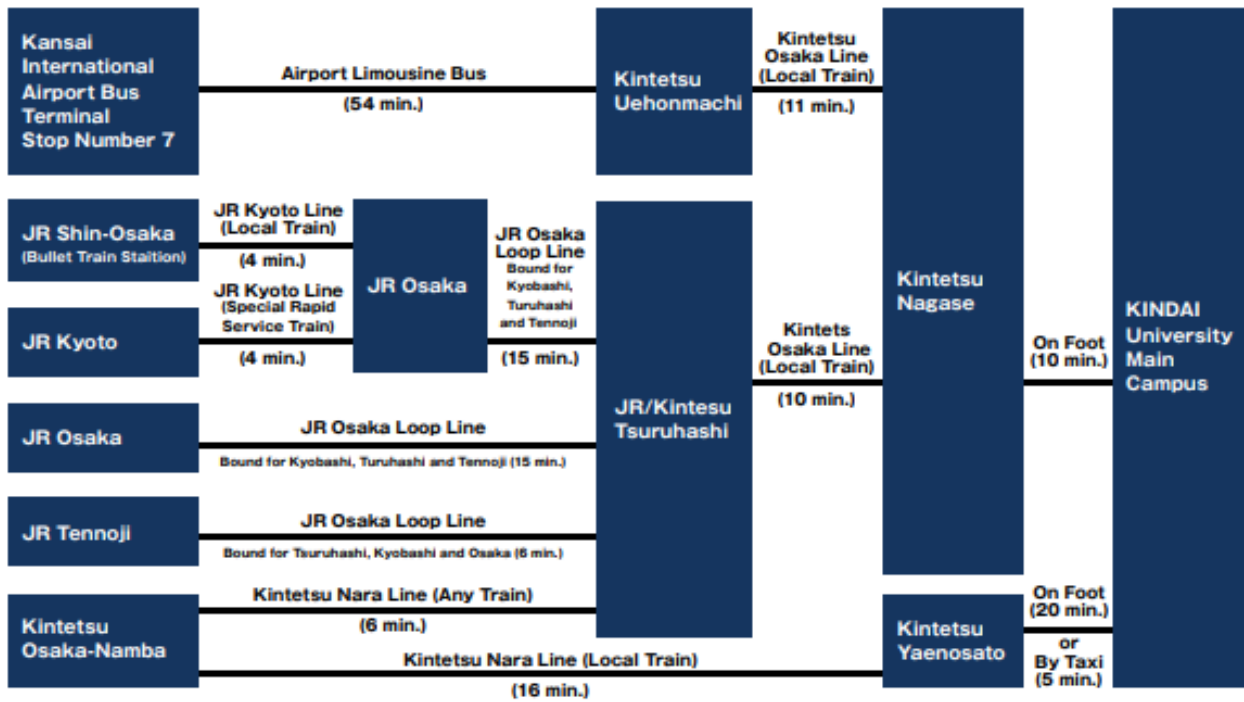
Bart was workpackage leader of the EUKLEMS project and a member of the management team of the World Input-Output Database (WIOD) project that ran from 2009 till 2012. Both projects were funded by the European Commission. He contributed to the UK in a Changing Europe (UKICE) initiatives with his Brexit-related research. Currently, he is active for the Economic Statistics Centre of Excellence (ESCoE) and the Productivity Institute, both in the UK. As of April 2021, he has been workpackage leader in the GI-NI project funded by the European Commission (H2020).

Bart was editor of Economic Systems Research, the journal of the International Input-Output Association, in the period 2009-2018. He was Vice-President of the association in 2021 and is currently a member of its Council. As of June 2011, he is a member of the editorial board of the Journal of Economic Structures. In 2017, he was a member of the local organizing committee of the 57th European Regional Science Association's congress in Groningen and co-chaired the Scientific Committee of the ESCoE Conferences on economic measurement in 2022 (Glasgow) and 2023 (London).

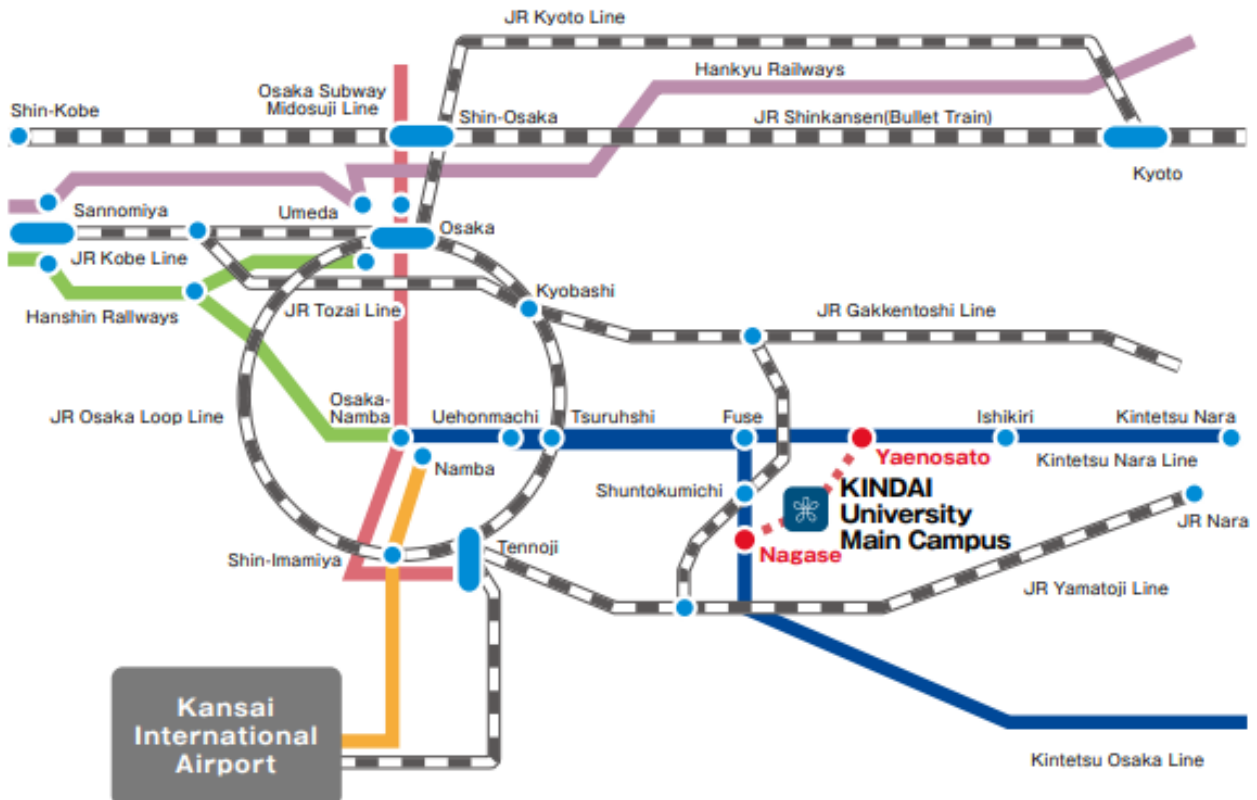
Saturday, March 16 at 17:00 – 18:00

Keynote title: GVC tables: A tool to analyze the past and to build scenarios for the future

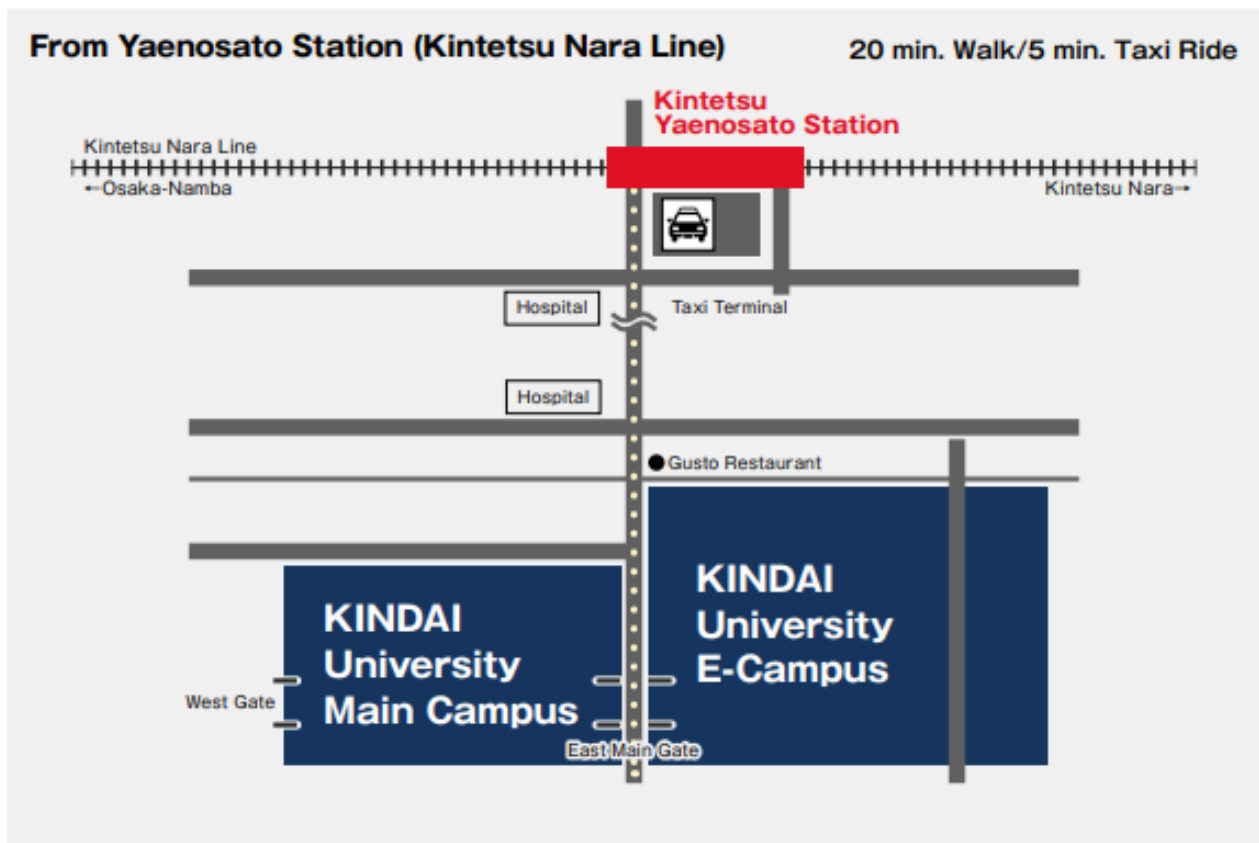
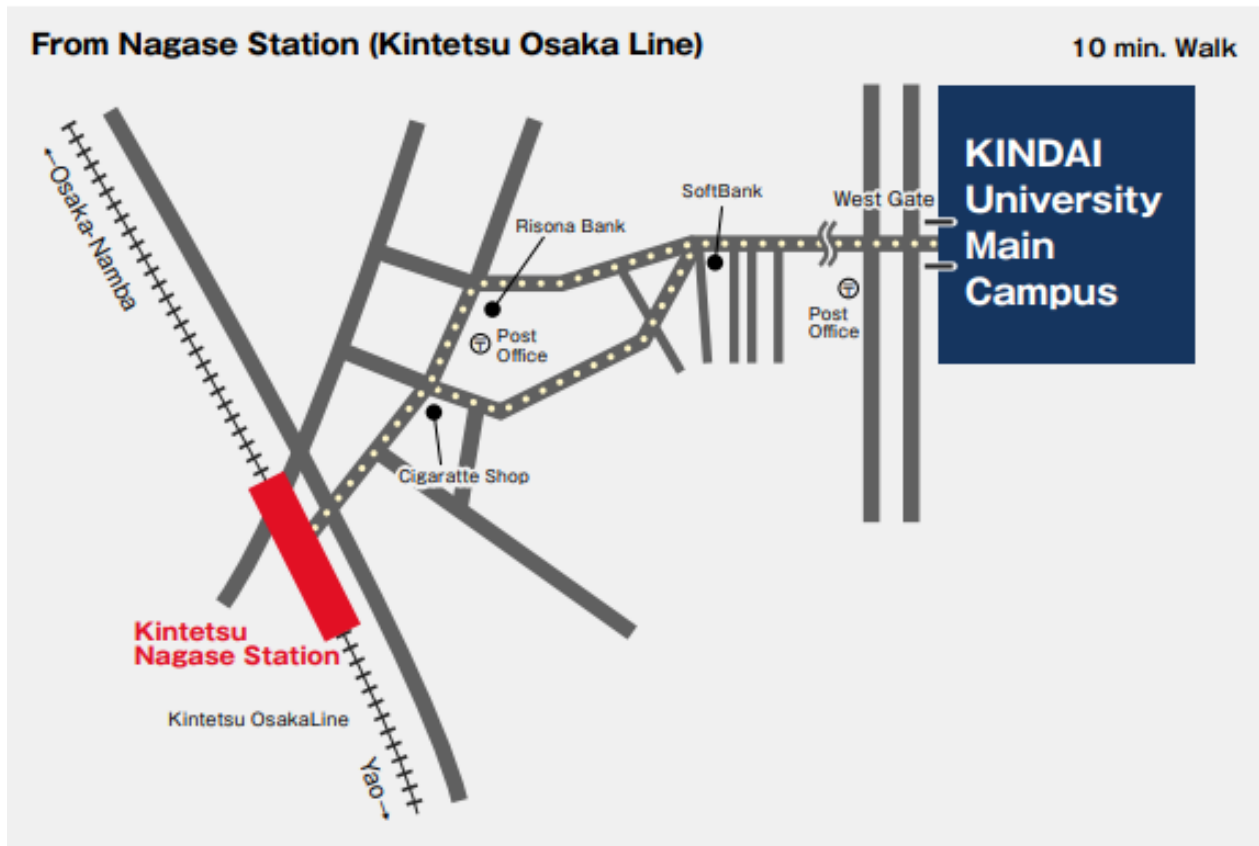
How to Get to KINDAI University's Main Campus Using Public Transportation



Route Map to Kindai University's Main Campus



Area Map



Campus Map

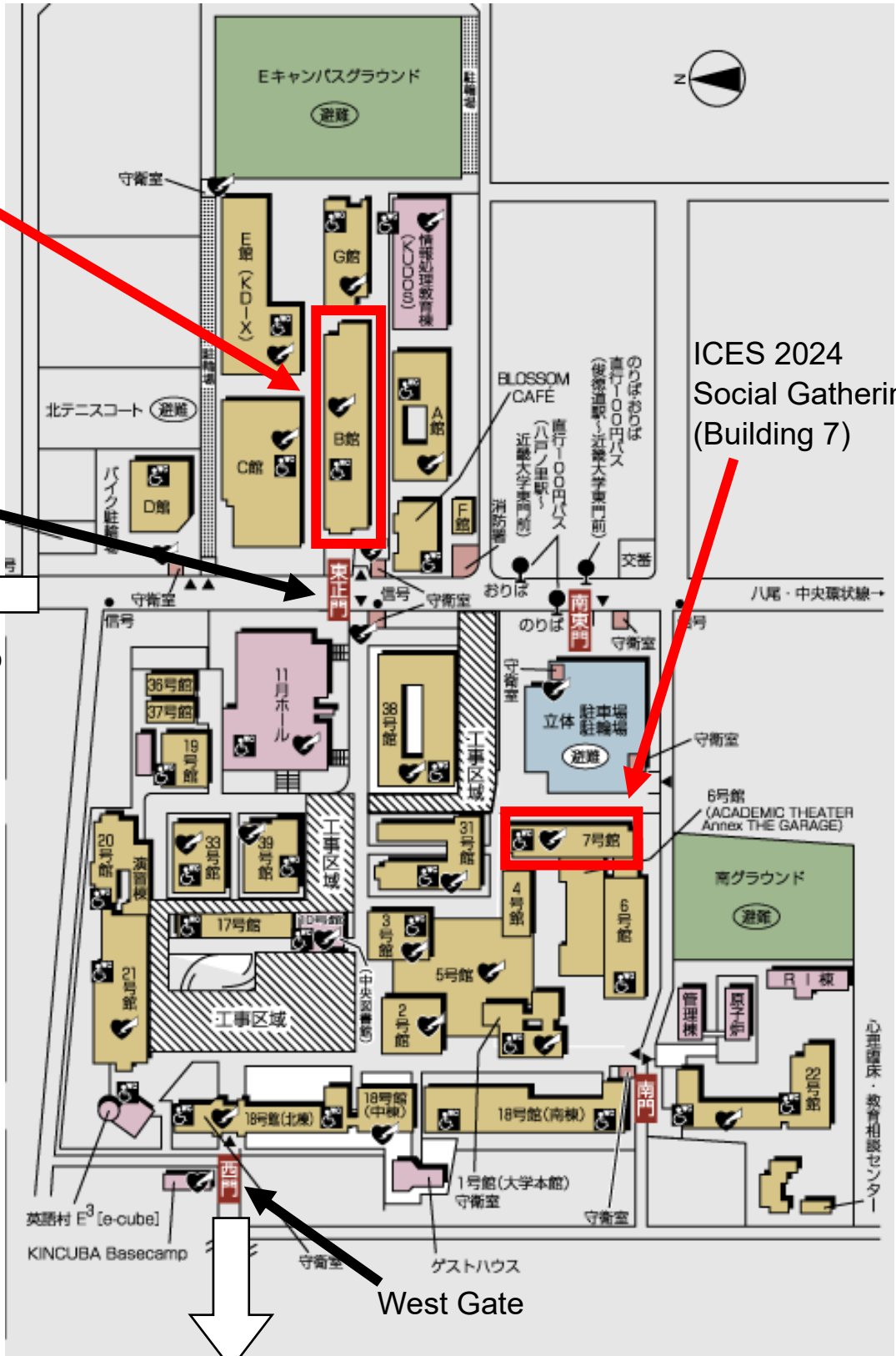
ICES 2024
Headquarters
(Building B)

East Gate

Yaenosato
Sta.

Nagase Sta.

ICES 2024
Social Gathering
(Building 7)



Floor Map (Building B)

1階 (1st Floor)



Venue A
(B101)

ICES 2024
Reception

5階(5th Floor)



Venue B
(B502)

Venue C
(B503)

Venue D
(B504)

Venue E
(B505)

Refreshment Area
(B501)



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General Organizing Committee

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- Masaru Ichihashi (Hiroshima University)
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- Keiji Ujikawa (Yokohama National University)
- Takashi Saito (Kyorin University)

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Web site: <http://www.gakkai.ne.jp/papaios/en/index.html>

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