

PROGRAM

13th WORLD CONGRESS OF THE RSAI

Virtual Conference
MAY 25-28
2021

SMART REGIONS
– Opportunities for
sustainable development
in the digital era



RSAI
REGIONAL SCIENCE ASSOCIATION INTERNATIONAL



Welcome to the 13th RSAI Congress

25-28 May 2021

RS AI wish you a pleasant and inspiring participation!

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Welcome to the 13th World Congress of the RSAI

Dear Friends and Colleagues,

It is our pleasure to welcome you to the 2021 RSAI World Conference! On behalf of the Regional Science Association International, the Local Organizing Committee, and the Scientific Committee, we would like to thank you for joining us at this historical meeting, and for sharing your experience, research and views with all the participants.

Organized by the Moroccan Section of the RSAI, the 2021 RSAI World Conference is intended to be a major international forum for researchers and policy-makers in the field of Regional Science across the world, focusing on today's most challenging issues. The World Conference brings together more than 500 participants from 53 different countries. The papers cover all major areas of the field, with applications for a wide range of regions in the globe.

Since we have decided that the congress would run 100% online, many colleagues from the Association have joined us in an extraordinary effort to organize a high standard, inclusive, online event. Recognizing the key role played by former RSAI President, Mark Partridge, we would like to extend our sincere gratitude and appreciation for the hard work and dedication provided by all of them.

Going online has shown to bring us some opportunities. We have contacted every single national section and invited them to propose special sessions dedicated to their countries/regions. We have received positive responses from almost all sections. This is really invigorating and motivating, further developing the sense of community belongingness that may motivate a larger number of young regional scientists to engage more broadly in the Association. We now have the opportunity to have a truly global conference, with the participation of many of RSAI sections!

This World Conference is a unique opportunity to showcase some of the exceptional work regional scientists are doing all over the world. There are 35 slots dedicated to 25 national sections, in addition to an even larger number of parallel sessions, and five outstanding keynote speakers.

Going online also made possible a wider participation across the world, allowing us to minimize the number of competing sessions, to allocate time slots with time zones in mind, and to reduce drastically registration fees.

We are pleased you were able to join us, and we wish you an excellent and memorable conference! Your participation and commitment to RSAI are very important and truly appreciated. In the next days, you will all have the opportunity to grab a big picture of our Association, being exposed to different topics and approaches people are using across the world.

Please receive our warmest welcome!



Eduardo Haddad
*President,
Regional Science Association
International*



Abdellatif Khattabi
*Chair, Local Organising Committee
President, Moroccan Regional
Science Association*



Andrea Caragliu
*Executive Director,
Regional Science Association
International*

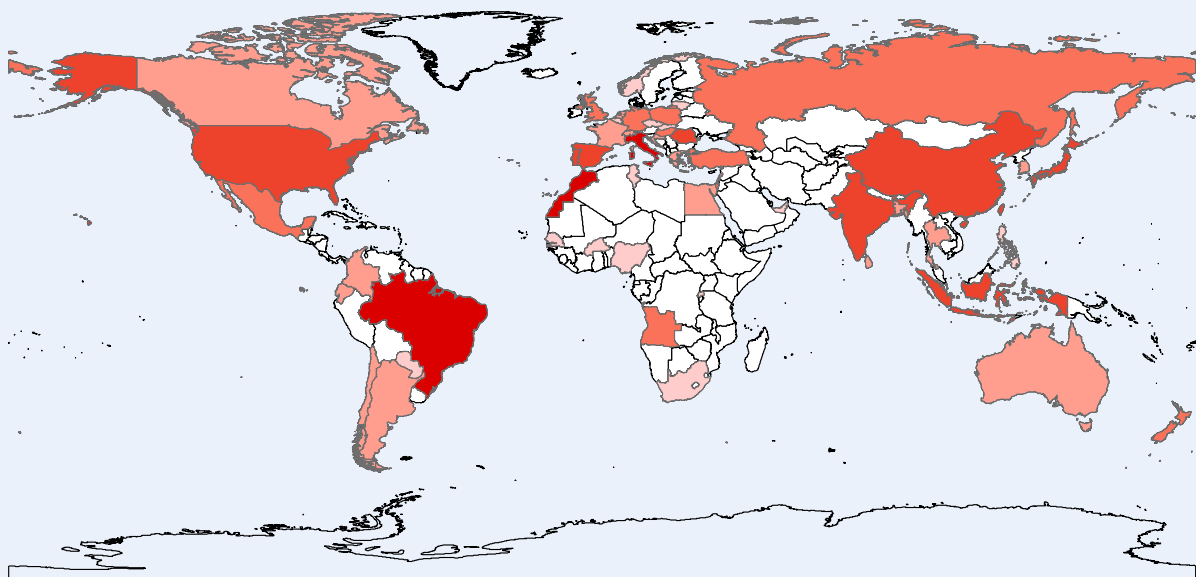
A truly World Congress

On behalf of the Moroccan Regional Science Association (AMSR) and the Regional Science Association International (RSAI), it is our pleasure to welcome you all to the 13th World Congress of the RSAI.

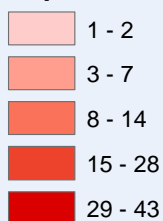
This last year has brought well known troubles to the whole world. At the time we are writing these words, the worst pandemic in over a century is still exerting a major toll on our every lives, among which the need to resort to online scientific events such as the one we are joining between May 25 and 28, 2021.

Yet, the RSAI took this as an opportunity to further broaden the geographical and disciplinary scope of our main global gathering. The map below shows the broad coverage of participants in this RSAI World Congress, as evidenced by the 53 Countries included in the program (proxied by Country of the institution of affiliation of the first author).

While older supranational sections (NARSC and ERSA) are as usual largely represented, we are very happy to report an important presence of PRSCO and LARSA national sections, too. Moreover, and this is among the main goals of this edition of the World Congress, we witnessed a positive feedback from many regional scientists located in African Countries where no national section of the RSAI is to date present. We hope this congress will sow seeds for the creation of new national sections, with the fundamental help of AMSR, presently the only national section active on the Continent. In the medium run, hopefully a new supranational section will emerge, including all such new sections, while also coordinating their activities.



Papers accepted to the 2021 RSAI World Congress



The RSAI World Congress is also a place of strong networking. In the next map, the intensity of co-participation for authors presenting papers accepted to regular sessions of the congress is represented with blue lines, with increasing thickness showing more frequent interactions of presenters sharing the same sessions. Blue lines cross all oceans and suggest a high propensity of exchange of ideas among regional scientists all over the world.

The last map shows with green lines that an analogous message comes from interaction of authors presenting papers accepted in special sessions during the World Conference. The geography of interactions appears relatively different, with thicker lines connecting North America and Europe, and between China and South Asia.



Beyond the pre-existing networks, we wish this Congress to be an opportunity for all of you (us!) to open new nodes, and further diffuse our discipline.

Have a safe, interesting, and productive Congress!

The RSAI World Congress Organizing Committee

Programme Overview

Tuesday, May 25, 2021	Wednesday, May 26, 2021	Thursday, May 27, 2021	Friday, May 28, 2021
			Session New Zealand 1 [05:30-07:00]
OPENING CEREMONY [08:30-09:00]			INTERVAL [07:00-09:00]
PLENARY SESSION I Keynote speech: Tawfik Mouline [09:00-09:30]			Session New Zealand 2 [9:00-10:30]
Parallel sessions 1 [09:30-10:45]	Parallel sessions 6 [09:30-10:45]	Parallel sessions 11 [09:30-10:45]	Parallel sessions 16 [09:30-10:45]
INTERVAL [10:45-11:00]	INTERVAL [10:45-11:00]	INTERVAL [10:45-11:00]	INTERVAL [10:45-11:00]
Parallel sessions 2 [11:00-12:15]	Parallel sessions 7 [11:00-12:15]	Parallel sessions 12 [11:00-12:15]	Parallel sessions 17 [11:00-12:15]
LUNCH BREAK [12:15-13:15]	LUNCH BREAK [12:15-13:15]	LUNCH BREAK [12:15-13:15]	LUNCH BREAK [12:15-13:15]
Parallel sessions 3 [13:15-14:30]	Parallel sessions 8 [13:15-14:30]	Parallel sessions 13 [13:15-14:30]	Parallel sessions 18 [13:15-14:30]
INTERVAL [14:30-14:45]	INTERVAL [14:30-14:45]	INTERVAL [14:30-14:45]	INTERVAL [14:30-14:45]
PLENARY SESSION II Keynote speech: Edward Glaeser [14:45-15:45]	PLENARY SESSION III Keynote speech: Siqi Zheng [14:45-15:45]	PLENARY SESSION IV Keynote speech: Isabelle Thomas [14:45-15:45]	PLENARY SESSION V Keynote speech: Alessandra Faggian [14:45-15:45]
INTERVAL [15:45-16:00]	INTERVAL [15:45-16:00]	INTERVAL [15:45-16:00]	CLOSING CEREMONY [15:45-17:15]
Parallel sessions 4 [16:00-17:15]	Parallel sessions 9 [16:00-17:15]	Parallel sessions 14 [16:00-17:15]	
INTERVAL [17:15-17:30]	INTERVAL [17:15-17:30]	INTERVAL [17:15-17:30]	
Parallel sessions 5 [17:30-18:45]	Parallel sessions 10 [17:30-18:45]	Parallel sessions 15 [17:30-18:45]	

NOTE: all hours in time zone (GMT+1). Please adjust your time schedule by comparing your current time with the one reported at the following link: <https://time.is/GMT+1>.

Overview Parallel Sessions

Tuesday, May 25, 2021							
ROOM	FIPE	NEREUS	Casablanca	Marrakech	Agadir	Fes	Essaouira
09:30-10:45 Parallel sessions 1	SS08	SS51.1	RS01.1	RS02.1	RS03.1	RS12.1	SS18.1
11:00-12:15 Parallel sessions 2	SS16.1	SS48B.1	RS07.1	RS08.1	RS21.1	RS10.1	SS18.2
13:15-14.30 Parallel sessions 3	SS43	RS14.4	R16.1	RS18.1	RS10.2	RS02.7	SS12.1
16:00-17:15 Parallel sessions 4	SS55.1	SS56.1	RS15.1	RS14.1	RS06.1	RS09.1	SS12.2
17:30-18:45 Parallel sessions 5	SS56.2	SS45.1	RS02.2	RS04	RS05	RS10.3	SS10

Wednesday, May 26, 2021								
ROOM	FIPE	NEREUS	Casablanca	Marrakech	Agadir	Fes	Essaouira	Lagouira
09:30-10:45 Parallel sessions 6	SS57	SS51.2	RS02.3	RS11.1	RS19.1	RS09.2	SS18.3	SS27
11:00-12:15 Parallel sessions 7	SS16.2	SS48B.2	RS03.2	RS15.2	RS14.2	RS10.4	SS18.4	SS28
13:15-14.30 Parallel sessions 8	SS44	SS64	RS07.2	RS18.2	RS12.3	RS17.2	SS19.1	SS33
16:00-17:15 Parallel sessions 9	SS55.2	SS58.1	RS06.2	RS21.2	RS09.3	RS10.5	SS19.2	SS23
17:30-18:45 Parallel sessions 10	SS46	SS45.2	RS02.4	R16.2	RS18.4	RS10.6	SS01	SS38.1

Thursday, May 27, 2021							
ROOM	FIPE	NEREUS	Casablanca	Marrakech	Agadir	Fes	Essaouira
09:30-10:45 Parallel sessions 11	SS52	SS51.3	RS02.6	RS20	RS18.3	RS10.7	SS18.5
11:00-12:15 Parallel sessions 12	SS22	SS53	RS02.5	RS15.3	RS06.3	RS09.4	SS18.6
13:15-14.30 Parallel sessions 13	SS60	SS38.2	RS03.3	SS17.1	RS21.3	RS11.2	SS40.1
16:00-17:15 Parallel sessions 14	SS54	SS58.2	RS22	RS19.2	RS08.2	RS12.5	SS40.2
17:30-18:45 Parallel sessions 15	SS63	SS61	RS01.2	RS07.3	RS17.1	RS11.3	SS24

Friday, May 28, 2021								
ROOM	FIPE	NEREUS	Casablanca	Marrakech	Agadir	Fes	Essaouira	Lagouira
								SS42.1 (05:30-07:00)
09:30-10:45 Parallel sessions 16	SS31	SS51.4	RS14.3	PCNS	RS09.5	RS10.9	SS36	SS42.2 (09:00-10:30)
11:00-12:15 Parallel sessions 17	SS59	SS62	RS10.8	RS03.4	SS49	RS12.4	SS29	SS48A
13:15-14.30 Parallel sessions 18	SS41	SS65	RS03.5	RS13	RS01.3	SS17.2	SS09	RS15.4

Instructions to Chairs, Presenters, and Discussants

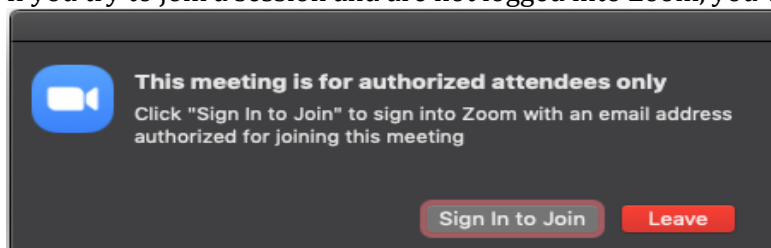
1. Sessions will last 1 hour and 15 minutes. Please stick to the times shown in the program. Each presentation is assigned a specific time, all expressed in the GMT+1 zone (please be sure and check how this translates into your own time zone). If you have a no-show, use the time for a discussion of the proceeding paper(s) or for a recess. Please do not shift papers to fill voids, as individuals may want to attend a particular paper.
2. The majority of sessions have 3 papers. In 3 paper sessions, each presenter is allowed 18 minutes for presentation, followed by a 5 minutes discussion. In 4 papers session, each presenter is allocated 15 minutes, followed by 3 minutes discussion. In the few 5 paper sessions, each paper should be allocated 12 minutes, with about 10 minutes at the end of the session for generic questions.
3. Hold each individual to the time available. If a speaker continues after time has expired, please let her/him know that time has expired. The audience and the other speakers will respect and support your decision.
4. Because of the limited time available, the conference assumes no formal discussion to follow presentations. However, Chairs of each session are free to organize their sessions as refereed ones, i.e. sessions where papers are assigned a discussant. In this case, Session chairs are asked to please get in touch as soon as possible with the Authors of the papers of their sessions to verify their availability to have a discussant assigned to their papers.
5. The discussant, if any, should provide a 3-minute discussion of the paper's main merits and limitations, possibly suggesting ways to address them for future reference.
6. In case the session is refereed, please adjust presentation times accordingly so as to leave room for all presenters and related discussants.

Zoom Requirements

For the meeting this year, the 2021 RSAI World Congress will restrict meeting participants to logged-in users only. This means that you must be logged in to Zoom to attend any of the sessions.

If you do not have a Zoom account, you will not be able to join the meeting.

If you try to join a session and are not logged into Zoom, you will receive the following messages:



Click on the **Sign In to Join** button. If you already have an account, log in to Zoom. If you do not have an account, you may sign up at this time.

Having a Zoom account allows you to create your own Instant Meetings or Schedule Meetings. An account also allows you to access your personal settings, where you can update your profile or upgrade your plan at any time.

How do I sign up for Zoom?

You can sign up for a free Zoom account at zoom.us/signup.

How much does Zoom cost?

A basic Zoom license is free.

Issues with logging in?

For any issue when logging in, you may write to the following email addresses, where specialized staff will assist you in the procedure:

Virtual room name	Email address
FIPE	RSAI.FIPE@gmail.com
NEREUS	RSAI.NEREUS@gmail.com
Lagouira	RSAI.Lagouira@gmail.com
Essaouira	RSAI.Essaouira@gmail.com
Casablanca	RSAI.Casablanca@gmail.com
Fes	RSAI.Fes2021@gmail.com
Marrakech	RSAI.Marrakech@gmail.com
Agadir	RSAI.Agadir@gmail.com
Dakhla	RSAI.Dakhla@gmail.com

Themes

Umbrella Theme

Smart Regions – Opportunities for sustainable development in the digital era

The themes which will zoom in particular on the pressing challenges of meeting the 2030 Agenda of Sustainable Development Goals, in both developed and developing economies. As a new challenge to regional science research is caused by the emerging digital technologies and their implications for analysis, monitoring, evaluation and forecasting of spatial dynamics at all levels, the theme chosen for the congress is 'Smart Regions- Opportunities for Sustainable Development in the Digital Era'. Therefore, the potential of spatial and temporal big data, machine learning, artificial intelligence, social media information, and of the new spatial maps emerging from digitization and robotization will be addressed by the congress as well, as these forces will have far-reaching impacts on human behaviour and interaction in space.

General Themes

RS01 - Entrepreneurship
 RS02 - Infrastructure, transportation and accessibility
 RS03 - Knowledge and innovation
 RS04 - Local finance
 RS05 - Location theory and applications
 RS06 - Methods in Regional Science and Urban Economics
 RS07 - Migration and regional labor markets
 RS08 - Real estate and housing
 RS09 - Regional and urban policy
 RS10 - Regional development
 RS11 - Rural development
 RS12 - Spatial implications of climate and environmental change

RS13 - Spatial planning
 RS14 - The spatial dimension of sustainable development
 RS15 - Theoretical and empirical urban economics
 RS16 - Tourism
 RS17 - Globalization and territorial intelligence
 RS18 - Resilience and Risk Management
 RS19 - Green economy and complexity of socio-ecosystems
 RS20 - Biodiversity, ecosystems and ecosystem services
 RS21 - Agriculture, fisheries and food security
 RS22 - Nexus: water, agriculture and energy

Special Sessions' Themes

SS01 - Alternatives for integrating development with infrastructure provision in the global South
 Manisha Jain and Jörg Knieling
 SS08 - Subjective well-being and spatial inequalities
 Camilla Lenzi and Giovanni Perucca
 SS09 - Regional, national and supranational identities: determinants and policy implications
 Enrique López Bazo and Giovanni Perucca
 SS10 - Regions and cities at the edge of the new technological era
 Roberta Capello and Camilla Lenzi
 SS12 - SMEs/Family Businesses and Regional Development
 Lech Suwala, Rodrigo Basco and Stefano Amato
 SS16 - Smart, sustainable, resilient regions: Responses to pandemic challenges - Contributions of the Romanian Scholars
 Daniela L. Constantin and Cristina Serbanica
 SS17 - Data science, machine learning and big data for regional Sciences

Jean-Claude Thill, Hicham Mharzi Alaoui, Said Lahssini and Hicham Hajji
 SS18 - Urban Future in the Global South
 Abdul Shaban and Tomaz Ponce Dentinho
 SS19 - The spatial dimension of energy transition policies, practices and technologies
 Andrea Caragliu and Marcello Graziano
 SS22 - Regional Disparities in the EU and Hungary in the Age of Digitalization and the Pandemic
 Zoltán Gál
 SS23 - Understanding the role of Renewable Energy in the Water, Agriculture, Energy Nexus in West and North Africa
 Mariama Camara and Mary Thompson-Hall
 SS24 - Education inequality and Economic development: a regional perspective
 Amaghous Jabrane and Ibourk Aomar
 SS27 - Discontent, Hate & Intolerant Attitudes
 Alessandra Michelangeli, Alessandra Faggian and Daria Denti
 SS28 - Smart Actors for Smart Regions
 Chiara Tagliaro and Gianandrea Ciaramella.

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SS29 - Strengthening the resilience of socio-ecological systems

Sumana Bandyopadhyay, Lakshmi Sivamakrishnan, Tomas Ponce Dentinho and Said Lahssini

SS31 - Regional Economic Development in Asia

Yuri Mansury and Budy Resosudarmo

SS33 - Plastic pollution and its environmental impact

Abdellatif Khattabi and Diane Pruneau

SS36 - Glocalization and Regional Development

Hideki Fukui and Shinya Ishizaka

SS38 - Resilience and peripheral areas: development patterns and policies in the borderlines

Karima Kourtit, Gabriela Carmen Pascariu, Ramona Tiganasu and Loredana Maria Simionov

SS40 - The productivity gap and the re-launch of productivity in Europe

Roberta Capello and Silvia Cerisola

SS41 - Regional perspective of the different global crisis for small countries in 21 century – case study of Croatia

Vinko Mustra

SS42 - Regional and urban resilience in a turbulent world: perspectives from Aotearoa New Zealand

Philip Morrison and Jacques Poot

SS43 - Advances in Regional Science: Contributions of Italian Scholars

Roberta Capello

SS44 - Mapping Co-Working Spaces: Spatial Patterns and Location Factors

Tüzün Baycan, Grzegorz Micek and Anastasia Sinitsyna

SS45 - Selected regional science topics in Mexico

Serena Eréndira Serrano Oswald

SS46 - Poverty and Local Economy Development in Ecuador

Fabian Vilema

SS47 - Regional Development in Sub-Saharan Africa

Tomaz Ponce Dentinho

SS48A - Arctic regions: economic, climate and epidemiologic challenges

Alexander Pilyasov

SS48B - Regional Science in Russia

Alexander Pilyasov

SS49 - Sharing Economy and Urban Sustainability in Thailand

Sutee Anantsuksomsri and Nij Tontisirin

SS51 - Sustainable Regional Development in China

Ling Xue and Jian Wang

SS52 - Regional Science in Lebanon

Nadim Farajalla and Lina Maddah Souheil

SS53 - Regional Science in Egypt

Michael L. Lahr

SS54 - Regional Science in Paraguay

Eduardo A. Haddad

SS55 - Regional Science in Angola

Tomaz Ponce Dentinho

SS56 - The Colombian Economy and its Regional Structural Challenges

Jaime Bonet

SS57 - Regional Science in Bangladesh

Md. Musleh Uddin Hasan

SS58 - Argentinean social and economic challenges

Pedro Luis Elosegui

SS59 - Labour mobility and regional development

Annekattrin Niebuhr

SS60 - Greek Regional Science

Yannis Psycharis

SS61 - Brazil Regional Science

Terciane Sabadini

SS62 - Moroccan Regional Science

Abdellatif Khattabi

SS63 - Chilean Regional Science

Yasna Cortés Garriga

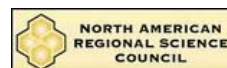
SS64 - Portuguese Regional Science

Francisco Carballo-Cruz

SS65 - Urban Neighborhoods: Accessibility, Segregation, and Neighborhood Change

Neil Reid

Conference Collaborators



Organizing Committee

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Executive Director, RSAI: Andrea Caragliu

Chair, Local Organising Committee: Abdellatif Khattabi, President, Moroccan Regional Science Association

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Said Lahssini, Ecole Nationale Forestière d'Ingénieurs, Salé

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Mohamed Wakrim, AMSR
Mostafa Lamrani Alaoui, Ecole Nationale Forestière d'Ingénieurs
Neil Reid, University of Toledo
Nouzha Chekrouni, University of Meknes
Oumahani Eddelani, Université Sidi Med Ben Abdellah, Fes
Patricio Aroca, University Adolfo Ibáñez
Paul Snow, Peking University
Peter Batey, University of Liverpool
Peter Nijkamp, Open University, Heerlen
Philip Mc Cann, Sheffield University
Rachida El Morabet, Faculté des Lettres et des Sciences Humaines de Mohammedia
Roberta Capello, Politecnico di Milano
Rudiger Ahrend, OECD
Said Hajib, Centre National de Recherche Forestière
Serena Eréndira Serrano Oswald, National Autonomous University of Mexico
Siqi Zheng, MIT
Sumona Banerjee, University of Calcutta
Terry Clower, George Mason University
Tomaz Dentinho, University of the Azores
Uwe Blien, Otto-Friedrich-University Bamberg
Vincente Royuela, University of Barcelona
Yacoubi Khebiza Mohamed, Université Cadi Ayyad Marrakech
Yoshiro Higano, University of Tsukuba

Day by day programme

Presenting authors are underlined

All hours in time zone (GMT+1)

Please adjust your time schedule by comparing your current time with the one reported at the following link: <https://time.is/GMT+1>

Monday, 24 May 2021

ADVANCED BRAINSTORM CARREFOUR (ABC)

10:25 - 18:40 CET, Monday, 24th May, 2021

Urban Empires - Cities as Global Rulers in the *New Urban World*

Room: Marrakech

<https://us02web.zoom.us/j/83917560314>

Organizers book editors: Edward Glaeser, Peter Nijkamp and Karima Kourtiti (eds.)

The Regional Science Academy



Aims and Scope of ABC

We live in the 'urban century'. Cities all over the world – in both developing and developed countries – display complex evolutionary patterns. A recently published study, *Urban Empires*, charts the backgrounds, mechanisms, drivers, and consequences of these radical changes in our contemporary systems from a global perspective and analyses the dominant position of modern cities in the 'New Urban World'.

In this session, various contributors of the above mentioned publication will present and discuss the drastic change cities have undergone internationally from a broad perspective, and consider their emerging roles in our global network society. Contributions from renowned scholars provide advanced analytical contributions, the spatial scaling applied and theoretical perspectives on the competitive profile of urban agglomerations in a globalizing world. The works that will be presented trace and investigate the economic and political drivers of network cities in a global context, and explores the unprecedented challenges over governance that are presented by mega-cities. These also identify and map out the new geography of the emergent 'urban century'.

With contributions from well-known and influential scholars from around the world, *Urban Empires* session serves as a touchstone for students and researchers keen to explore the scientific and policy needs of cities, as they become our age's global power centers.

10:25 – 10:30 | Welcome

Peter Batey

President, *The Regional Science Academy* (TRSA)

10:30 - 12:00

Chair: Peter BATEY

- 1) **Do Urban Empires Rule the World? An Introduction**
Edward GLAESER, Karima KOURTITI and Peter NIJKAMP
- 2) **Proximity and Agglomeration, Two Understanding Keys of City**
Lise BOURDEAU-LEPAGE and André TORRE
- 3) **A Scientific Program on Urban Performance and Dynamics**
Roberto CAMAGNI, Roberta CAPELLO and Andrea CARAGLIU

12:00 - 12:30 | Break

12:30 - 14:00

Chair: Andrea CARAGLIU

- 4) **Defining City Size and Growth**
Michael BATTY
- 5) **In Pursuit of High-Performance Global Cities - An Extended Dea Model: For Assessing Urban Socio- Economic and Environmental Indicators**
Soushi SUZUKI, Karima KOURTIT and Peter NIJKAMP
- 6) **Metropolitan Cities: Which Development Strategies? Which New Perspectives For Improving Productivity? Which Governance Tools?**
Luigi FUSCO GIRARD

14:00 - 14:30 | Break

14:30 - 16:00

Chair: Abdellatif KHATTABI

- 7) **Seoul as an Urban Empire: Evidence from Spatial Interaction Models**
John CARRUTHERS and Su-Jung LEE
- 8) **The Changing Industrial Organization of American Megaregions**
Harrison S. CAMPBELL, Isabelle NILSSON and Neil REID
- 9) **The Analysis of Big Data on Cites and Regions – Some Computational and Statistical Challenges**
Laurie SCHINTLER and Manfred FISCHER

16:00 - 16:30 | Break

16:30 - 18:30

Chair: Laurie SCHINTLER

- 10) **The Public Expenditure Impact on Urban Population Growth**
Steven CRAIG and Janet KOHLHASE
- 11) **Resilience to a Cyber-Attack on the Detroit Automobile Industry: A Computable General Equilibrium Approach**
Adam ROSE and Zhenhua CHEN
- 12) **Material Flows in the Global City**
Genevieve GIULIANO, Sanggyun KANG, Nathan HUTSON and Quan YUAN
- 13) **The “New Urban World”: Challenges for Large Urban Agglomerations**
Eduardo HADDAD and Ana BARUFI

18:30 - 18:40 | Conclusion

Karima KOURTIT

Tuesday, 25 May 2021

OPENING CEREMONY

08:30 - 09:00 Tuesday, 25th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/87868893044>

Welcome Speeches



Eduardo Haddad
President, Regional Science
Association International



Abdellatif Khattabi
Chair, Local Organising Committee
President, Moroccan Regional
Science Association



Andrea Caragliu
Executive Director, Regional
Science Association International



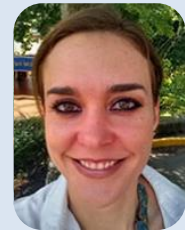
Neil Reid
NARSC Executive Director



André Torre
ERSA President



Rachel S. Franklin
PRSCO President



Serena S. Oswald
LARSA President

PLENARY SESSION I

09:00 - 09:30 Tuesday, 25th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/87868893044>

Keynote Speech



Towards a new post-COVID-19 world

Mr. M. Tawfik Mouline

General Director Royal Institute for Strategic Studies, Morocco

Chair **André Torre**, University Paris Saclay, INRAE, France

Discussant **Karima Kourtiti**, Open University, Heerlen, Netherlands

PARALLEL SESSIONS (1)

Special Session: SS08 - Subjective well-being and spatial inequalities

09:30 - 10:45 Tuesday, 25th May, 2021

Room FIPE

<https://us02web.zoom.us/j/87320775891>

Chair Camilla Lenzi

- 29 **Subjective well-being, inequalities and the geography of discontent in European regions**
[Giovanni Perucca](#), [Camilla Lenzi](#)
Politecnico di Milano, Italy
- 445 **Evaluating the Population' Spatial Accessibility to Primary Health Care Units**
[Diana F. Lopes](#)¹, [João L. Marques](#)¹, [Ana L. Ramos](#)², [Eduardo A. Castro](#)¹
¹GOVCOPP, DCSPT, University of Aveiro, Portugal. ²GOVCOPP, DEGEIT, University of Aveiro, Portugal
- 227 **King Leopold's Skeleton: The Aftereffects of Colonialism on Urban Form and Spatial Inequality in Kinshasa, DRC**
[Nathan Hutson](#), [Wise Lubanda](#)
University of North Texas, USA
- 130 **Coming Out of the Woods. Do local support services influence the propensity to report sexual violence?**
[Daria Denti](#)^{1,2}, [Simona Iammarino](#)¹
¹London School of Economics, United Kingdom. ²Gran Sasso Science Institute, Italy

National Session: SS51.1 - Sustainable Regional Development in China



09:30 - 10:45 Tuesday, 25th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/84686769452>

Chair Jian Wang

- 498 **Multi-scale Coupling Governance: the experience of dealing with COVID-19 from China**
[Xiaohua XIN](#), [Lachang Lyu](#)
Capital Normal University, China
- 499 **The Evolution and Driving Mechanism of Urban Innovation Network in GBA**
[Xiumin Li](#), [Qianqian Chen](#), [Furong Liang](#)
Guangdong University of Technology, China

512 Measuring the Population Size of Cities in China

Yi Niu, [Jinyu Wang](#)

Capital University of Economics and Business, China

543 Urban Network Externalities and Economic Growth of Urban Agglomeration Regions in China

[Tieshan Sun](#), [Hongming Zhang](#)

School of Government, Peking University, China

Regular Session: RS01.1 - Entrepreneurship

09:30 - 10:45 Tuesday, 25th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/88466279359>

Chair Marina Van Geenhuizen

35 Young high-tech firms and market introduction of sustainable energy solutions

[Marina Geenhuizen](#), [Razieh Nejabat](#)

Delft University of Technology, Fac. Technology, Policy and Management, Netherlands

43 Determinants of new firm formation in Japan: New methods for the analysis of entrepreneurship

[Akira Kiminami](#)¹, [Lily Kiminami](#)², [Shinichi Furuzawa](#)²

¹The University of Tokyo, Department of Agricultural and Resource Economics, Japan. ²Niigata University, Japan

174 Factors that influence on the enterprenuerial intention of unemployees in COVID-19 times

[Grace Carolina Guevara-Rosero](#), [Bernardo Alquina](#), [Marcela Guachamin](#)

Department of Quantitative Economics, Escuela Politécnica Nacional, Ecuador

315 Inter-organizational connectivity in the creative sector through the lens of proximity

[Petra Kecskes](#)

Széchenyi István University, Hungary

Regular Session: RS02.1 - Infrastructure, transportation and accessibility

09:30 - 10:45 Tuesday, 25th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/83379645511>

Chair Evi Noor Afifah

139 Crime and Chinese aid projects in Ghana

[Michael Appiah-Kubi](#)

School of Economics, Xiamen University, China

175 Analysis on the rationality of infrastructure investment in Liaoning Province of China based on infrastructure-industry matching

[Yinghui Xiang](#), [Junyi Wu](#)

Shenyang Jianzhu University, China

418 Impact Evaluation of Vocational Training for People with Physical Disabilities on Employment Opportunities

[Leni Marlina](#)¹, [Evi Noor Afifah](#)²

¹Government of Rejang Lebong Municipal, Bengkulu, Indonesia. ²Department of Economics, Universitas Gadjah Mada, Indonesia

420 Education Expenditure and Economic Growth in Southeast Asia

[Farisa Puspita Adila](#), [Evi Noor Afifah](#)

Department of Economics, Universitas Gadjah Mada, Indonesia

Regular Session: RS03.1 - Knowledge and innovation

09:30 - 10:45 Tuesday, 25th May, 2021

Room Agadir

<https://us02web.zoom.us/j/85836987366>

Chair Lily Kiminami

46 Study on the Issues of Innovation in Japan's Rice Industry: Focusing on the strategy of market-creating innovation

[Lily Kiminami](#)¹, [Shinichi Furuzawa](#)¹, [Akira Kiminami](#)²

¹Niigata University, Japan. ²The University of Tokyo, Japan

48 Effects of Inter-organizational Network on Social Enterprises: Analysis at Organizational Level in Japan

[Shinichi Furuzawa](#)¹, [Lily Kiminami](#)¹, [Akira Kiminami](#)²

¹Niigata University, Japan. ²The University of Tokyo, Japan

179 On the Working in border thinking to DIGITALIAN from "JIKOCHULIAN":An Empirical Analysis in "DIGITAL SOULFULLIAN" era

[Kazuyoshi Hayama](#)

JAPAN, Japan

312 Regional Innovation Policy for Innovation Upgrading of Local SEMs

[Hidenori Shigeno](#)¹, [Taisuke Matsuzaki](#)¹, [Yasushi Ueki](#)², [Masatsugu Tsuji](#)¹

¹Kobe International University, Japan. ²IDE-JETRO, Japan

Regular Session: RS12.1 - Spatial implications of climate and environmental change

09:30 - 10:45 Tuesday, 25th May, 2021

Room Fes

<https://us02web.zoom.us/j/88538303825>

Chair Hicham Alaoui

31 Machine learning application to predict forest fires ignition risk in the Mediterranean region (North-West Morocco)

[Hicham Alaoui](#)¹, [Assali Fouad](#)¹, [Hicham Hajji](#)²

¹Climatic and Forest Risk Management Center, Morocco. ²IAV, Morocco

- 149 An assessment of drought vulnerability among households with temporary migrant members and households without temporary migrant members: A comparative study across different income and social groups in rural India**

[Badsha Sarkar](#)

TERI School of Advanced Studies, India

- 341 Fiscal Policy for Combatting Climate Change: Evidence from Indonesia**

[Mahpud Sujai](#)

Fiscal Policy Agency, Ministry of Finance Indonesia, Indonesia

Special Session: SS18.1 - Urban Future in the Global South

09:30 - 10:45 Tuesday, 25th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/88394645535>

Chair Abdul Shaban

- 166 Interdependencies between spatial planning and the mining laissez-passer in cities, the case of Ecuador**

[Karl Heinz Gaudry](#)^{1,2}, [Danilo Ibarra](#)¹, [Carla Carabajo](#)¹, [Katty Marin](#)¹

¹Instituto de Investigación Geológico y Energético (IIGE), Ecuador. ²Centre for International Migration and Development (CIM/GIZ), Germany

- 269 Population Concentration, Socio-Economic Development and Perception of Corruption in the Capital of Latin American Countries**

[Suzana Quinet Bastos](#), [João Frederico Martins Baêta Guimarães](#), [Fabio Gama](#)

Federal University of Juiz de Fora, Brazil

- 271 Urban structure to determine a equitable regional growth towards human equity: case study in Chía-Bogota, Colombia**

[Vasco Barbosa](#)¹, [Monica Suárez](#)², [Jorge Cerdas](#)³

¹University of La Sabana, Engineering Faculty, Colombia. ²Colombian School of Engineering Julio Garavito, Colombia. ³Geographic Engineering Department, University of Santiago de Chile, Chile

- 282 Overcoming marginality: grassroots redefinitions of urban futures in the late socialist Havana**

[Oskar Lubiński](#)

University of Warsaw, Poland

- 565 IACOVID19 Vulnerability Index for Brazilian Municipalities: a machine learning application with Gradient Boosted Tree Method**

[Rogério Pereira](#)¹, [Erick Sperandio](#)²

¹State University of Bahia, Brazil. ²CIMATEC/SENAI, Brazil

Interval

10:45 - 11:00 Tuesday, 25th May, 2021

PARALLEL SESSIONS (2)

National Session: SS16.1 - Smart, sustainable, resilient regions: Responses to pandemic challenges



11:00 - 12:15 Tuesday, 25th May, 2021

Room FIPE

<https://us02web.zoom.us/j/87320775891>

Chair Daniela L. Constantin

- 245 **Connecting Smart Specialization, the Green Transition and Socio-Economic Resilience. An Empirical Test**
[Cristina Maria Serbanica](#)
Constantin Brancoveanu University, Pitesti, Romania. The Bucharest University of Economic Studies, Romania
- 262 **Economic Crisis and New Firm Creation in Romania. Insights from Static and Dynamic Spatial Panel Models**
[Zizi Goschin](#), [Antonia Mihai](#), [Horia Țigău](#)
Bucharest University of Economic Studies, Romania
- 263 **The impact of COVID 19 Pandemic on HEIs – response strategies from Romanian universities**
[Romana Emilia Cramarencu](#), [Monica Burca Voicu](#)
Babes Bolyai University, Cluj Napoca, Romania
- 295 **New Firm Formation during Uncertainty. A Regional Analysis of Romanian Newborn Firms during 2020**
[Alina I. Popescu](#)
The Bucharest University of Economic Studies, Romania

National Session: SS48B.1 – Regional Science in Russia



11:00 - 12:15 Tuesday, 25th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/84686769452>

Chair Alexander Pelyasov

- 151 **Fiscal Resilience of Russia's Regions**
[Anna Mikhaylova](#)
Russian Presidential Academy of National Economy and Public Administration, Russian Federation. Institute For Public Finance Reform, Russian Federation

318 Between Path Dependence and Innovations: Determinants of Technological Entrepreneurship in the Russian Regions.

Stepan Zemtsov, Alexander Mikhaylov

Russian Academy of National Economy and Public Administration, Russian Federation

320 Factors of small business development in Russia

Stepan Zemtsov, Yulia Tsareva

RANEPA, Russian Federation

328 The sandwich of Russian space: How different spaces differentiate themes in regional science

Nadezhda Zamyatina¹, Ruslan Goncharov², Alexandra Poturaeva¹, Alexander Pilyasov¹

¹Lomonosov Moscow State University, Russian Federation. ²Higher School of Economics, Russian Federation

Regular Session: RS07.1 - Migration and regional labor markets

11:00 - 12:15 Tuesday, 25th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/88466279359>

Chair Wahyuningtyas Puspitasari

159 Effect of Tariff Liberalization on Mexico's Wage Differential

Mary Arends-Kuenning¹, Kathy Baylis², Rafael Garduño-Rivera³

¹University of Illinois at Urbana-Champaign, USA. ²University of California, Santa Barbara, USA. ³Universidad Panamericana, Mexico

413 Aspiration of Migrants and Return to Human Capital Investment

Sucahyo Dwi Husada, Evi Noor Afifah

Economics Department, Universitas Gadjah Mada, Indonesia

416 Woman Should Not Be Afraid to Work: The Study of Maternal Employment's Impact on Children's Educational Achievement in Indonesia

Wahyuningtyas Puspitasari^{1,2}, Evi Noor Afifah¹

¹Department of Economics, Universitas Gadjah Mada, Indonesia. ²Provincial Government of the Special Region of Yogyakarta, Indonesia

419 The Impact of Income Gap to Migration Decision in Indonesia

Nazala Syahrur Rachmawati¹, Evi Noor Afifah²

¹Coordinating Ministry for Economic Affairs, Indonesia. ²Department of Economics, Universitas Gadjah Mada, Indonesia

Regular Session: RS08.1 - Real estate and housing

11:00 - 12:15 Tuesday, 25th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/83379645511>

Chair Elena Semerikova

74 Redrawing of a housing market: Insurance payouts and housing market recovery in the wake of the Christchurch earthquake 2011

Dag Einar Sommervoll¹, Ilan Noy², Cuong Nguyen², Fang Yaou³

¹Norwegian University of Life Sciences, Norway. ²Victoria University of Wellington, New Zealand. ³Reserve Bank of New Zealand, New Zealand

141 City augescens: when housing matters

[Carlos Marques](#)^{1,2}, [Cisbelia Cevadinha](#)³

¹ISCSP.UL, Portugal. ²CIAUD.FAUL, Portugal. ³CIAUD.FAUL, Portugal

406 A Spatial Quantile Regression Analysis of Housing Prices in German Regions

[Elena Semerikova](#)

National Research University Higher School of Economics, Russian Federation

460 A territorial housing cost overburden index: an exploratory approach for Portugal

[Paulo Batista](#)^{1,2,3}, [João Marques](#)^{1,2,3}

¹Universidade de Aveiro, Portugal. ²Unidade de Investigação em Governança, Competitividade e Políticas Públicas (GOVCOPP), Portugal. ³Grupo de estudos em território e inovação, Portugal

Regular Session: RS21.1 - Agriculture, fisheries and food security

11:00 - 12:15 Tuesday, 25th May, 2021

Room Agadir

<https://us02web.zoom.us/j/85836987366>

Chair Roshini Jayaweera

212 Impact of Covid-19 on Food Security in Sri Lanka

[Roshini Jayaweera](#), [N.P Dammika Padmakanthi](#)

University of Kelaniya, Sri Lanka

213 Agriculture and Food Security in Sri Lanka

[Moksha Samarakoon](#), [Roshini Jayaweera](#), [Gunatilake M.M](#)

University of Kelaniya, Sri Lanka

411 Impact of Subsidy and Credit Supports on Productivity of Marginal and Smallholder Rice Farmers: A Propensity Score Matching Approach

[Md.Elias Hossain](#)¹, [Md. Khairul Islam](#)¹, [Md. Shamsuddin Sarker](#)²

¹Department of Economics, University of Rajshahi, Bangladesh. ²Department of Economics, Southeast University, Banani, Dhaka, Bangladesh

Regular Session: RS10.1 - Regional development

11:00 - 12:15 Tuesday, 25th May, 2021

Room Fes

<https://us02web.zoom.us/j/88538303825>

Chair André Torre

15 Common goods and territorial development: reflections on governance issues

[Leila Kebir](#)¹, [Frederic Wallet](#)²

¹University of Lausanne, Switzerland. ²INRA-UPS, Switzerland

185 Cultural and Creative Cities and regional economic efficiency: Context conditions as catalyzers of cultural vibrancy and creative economy

[Silvia Cerisola](#), [Elisa Panzera](#)

Politecnico di Milano, Italy

- 336 Towards sustainable and smart regional development: the case of Lithuanian regional policy**

[Violeta Kiurienė](#)

Vilnius University Šiauliai Academy, Lithuania

- 479 Proximity analysis of local actors' coordination in the circular economic process A study case on methanisation based on social networks approach**

[André Torre](#)^{1,2}, [Amadou Niang](#)^{1,2}, [Sébastien Bourdin](#)³

¹University Paris Saclay, France. ²INRAE, France. ³Normandy Management School, France

Special Session: SS18.2 - Urban Future in the Global South

11:00 - 12:15 Tuesday, 25th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/88394645535>

Chair Abdul Shaban

- 38 Assessing watershed environmental vulnerability in climate change context: case of arid watershed from Moroccan Anti-Atlas**

[Said Lahssini](#), [Abdellatif Khattabi](#)

Ecole Nationale Forestière d'Ingénieurs, Morocco

- 123 Operationalizing disaster resilience in Northern Morocco: a comparative study of composite indicator effectiveness for measuring flood resilience**

[Satour Narjiss](#), [Ilias Kacimi](#), [Nadia Kassou](#)

University Mohamed V, Morocco

- 392 Kigali and the secondary cities as a polycentric green structure for Rwanda**

[Manlio Michieletto](#)

University of Rwanda, Rwanda

- 490 Food Security and the post-pandemic city: Some perspectives from Lagos, Nigeria**

[Taibat Lawanson](#), [Oluwafemi Olajide](#)

Department of Urban and Regional Planning, University of Lagos, Nigeria

LUNCH BREAK

12:15 - 13:15 Tuesday, 25th May, 2021

PARALLEL SESSIONS (3)

National Session: SS43 - Advances in Regional Science: Contributions of Italian Scholars



AISRe
Associazione Italiana
di Scienze Regionali

13:15 - 14:30 Tuesday, 25th May, 2021

Room FIPE

<https://us02web.zoom.us/j/87320775891>

Chair Roberta Capello

- 278 Space, Land Rent and Income Distribution**
[Roberto Camagni](#)
Politecnico di Milano, Italy
- 260 Openness and regional growth**
[Laura Resmini](#)
Università di Milano-Bicocca, Italy
- 258 Evaluation of the Effectiveness of Firm Subsidies in Lagging-Behind Areas: The Italian Job**
[Augusto Cerqua](#), [Guido Pellegrini](#)
Department of Social Sciences and Economics, Sapienza University of Rome, Italy
- 367 Resilience and Convergence: Short vs. Long-Run. Regional Effects of Economic Crises and Macroeconomic Policies**
[Fabio Mazzola](#), [Pietro Pizzuto](#)
University of Palermo, Italy

Regular Session: RS14.4 - The spatial dimension of sustainable development

13:15 - 14:30 Tuesday, 25th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/84686769452>

Chair Andrea Salustri

- 152 Geospatial Technologies for Monitoring the Sustainable Development Goals**
[Iozsef Benedek](#)¹, [Kinga Ivan](#)¹, [Ibolya Török](#)¹, [Arnold Temerdek](#)², [Iulian-Horia Holobacă](#)¹
¹Research Centre for Sustainable Development, Babes-Bolyai University, Romania. ²AROBS Transilvania Software, Romania

223 Measuring the environmental impact of traffic growth on different periurban zones of a middle-sized city

[Tamás Hardi¹](#), [Orsolya Farkas¹](#), [Katalin Hegyiné Bolla^{1,2}](#)

¹Centre for Economic and Regional Studies Institute for Regional Studies, Hungary. ²Széchenyi István University Doctoral School of Regional- and Business Administration Sciences, Hungary

294 Inequalities and sustainable development: towards the identification of a new interpretative model?

[Andrea Salustri](#)

Sapienza University of Rome, Italy

Regular Session: RS16.1 - Tourism

13:15 - 14:30 Tuesday, 25th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/88466279359>

Chair Éva Happ

92 Sustainable measures in hotels analysed from the demand side

[Éva Happ](#), [Júlia Nagy-Keglovich](#)

Széchenyi István University, Hungary

331 COVID-19 and Guests' Preferences in Short-Term Rentals: Evidence from Madrid

[Alberto Hidalgo¹](#), [Massimo Riccaboni¹](#), [Armando Rungi¹](#), [Francisco J. Velázquez²](#)

¹IMT School for Advanced Studies Lucca, Italy. ²Complutense University of Madrid, Spain

361 The Effects of Sectoral Shutdown on the Western Mediterranean Region Economy of Turkey

[Selim Çağatay¹](#), [Zafer Barış Gül¹](#), [Mehmet Kula²](#), [M. Şükrü Erdem¹](#), [Şebnem Arık²](#)

¹Akdeniz University, Turkey. ²-, Turkey

394 Determinants of attendees' expenditure: an analysis from a local economy point of view

[António Almeida](#), [Luiz Machado](#)

Faculty of Social Sciences-University of Madeira, Portugal

Regular Session: RS18.1 - Resilience and Risk Management

13:15 - 14:30 Tuesday, 25th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/83379645511>

Chair Paolo di Caro

32 Big Remotely Sensed Data application for fire severity and post-fire monitoring

[Hicham MHARZI ALAOUI¹](#), [Assali Fouad¹](#), [Said Lahssini²](#), [Said Moukrim³](#), [Hicham Hajji⁴](#)

¹Climatic and Forest Risk Management Center, Morocco. ²National Forestry School of Engineers, Morocco.

³Mohammed V University, Morocco. ⁴IAV, Morocco

93 Risk assessment of gully erosion by Multicriteria analysis (Rhéraya watershed - Western High Atlas)

[Farid El Wahidi](#), [Aïcha Fadil](#)

UCA, Morocco

94 Management of risk in tourism

[Zakaria Adidi](#)

Fsjes Souissi, Morocco

357 The role of the cohesion policy for sustaining the resilience of European regional labour markets during different crises

[Paolo Di Caro](#)¹, [Ugo Fratesi](#)²

¹Department of Law-University of Catania, Italy. ²Politecnico di Milano, Italy

Regular Session: RS10.2 - Regional development

13:15 - 14:30 Tuesday, 25th May, 2021

Room Agadir

<https://us02web.zoom.us/j/85836987366>

Chair Réka Horváth

3 Regional inequalities and decentralization in the Central and Eastern European countries

[Tomasz Kossowski](#), [Pawel Motek](#)

Adam Mickiewicz University, Poland

7 European metropolises and its demographic problems: a spatial approach

[Tomasz Kossowski](#), [Justyna Wilk](#)

Adam Mickiewicz University, Poland

216 The unintended effects of cohesion policy: the wealthiest regions will further flourish in Romania

[Réka Horváth](#), [Tünde Petra Szabó](#)

Babes-Bolyai University, Faculty of Economic Sciences and Business Administration, Romania

257 Growth and Convergence of the Spanish Regions in the European Union

[Angel Martinez](#)

Universidad Católica San Antonio en Murcia, Spain

Regular Session: RS02.7 - Infrastructure, transportation and accessibility

13:15 - 14:30 Tuesday, 25th May, 2021

Room Fes

<https://us02web.zoom.us/j/88538303825>

Chair Bert van Wee

2 Impacts of the built environment and travel behaviour on attitudes: theories underpinning the reverse causality hypothesis

[Bert Wee](#)¹, [Jonas de Vos](#)², [Kees Maat](#)¹

¹Delft University of Technology, Netherlands. ²Bartlett School of Planning, University College London, United Kingdom

45 High Speed Rail and Spatial Equity in Developing Countries: The Case of Turkish High-Speed Railways

[Ahmet Bas](#)¹, [Marie Delaplace](#)²

¹Abdullah Gul University, Turkey. ²University Paris Est, Lab'Urba, France

- 206 **Truck platooning technology diffusion: a micro-founded macroeconomic model with profitability condition and club effect**

[El Mehdi Aboulkacem](#)

Université Gustave Eiffel, France

- 334 **The 'Good Night' program: an innovative model for the solution of truck congestion in Israel**

[David Bentolila](#)

Ruppin Academic Center, Israel

Special Session: SS12.1 - SMEs/Family Businesses and Regional Development

13:15 - 14:30 Tuesday, 25th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/88394645535>

Chair Stefano Amato

- 471 **Family firms, Regional Competitiveness and Productivity: A Multilevel Approach**

[Stefano Amato](#)

IMT School for Advanced Studies Lucca, Italy

- 189 **Small Business Clinic: A data-driven diagnostic and advisory tool for SMEs in lagging regions**

[George Petrakos](#), [George Anastasiou](#), [Alexandra Sotiriou](#), [Dimitris Kallioras](#)

University of Thessaly, Department of Planning and Regional Development, Greece

- 106 **Sustainable strategic design in furniture MSEs in Uberlândia, Brazil**

[Fernando Moreira da Silva](#), [Juliana Cardoso Braga](#)

Lisbon School of Architecture, Portugal

- 242 **The role of medium-sized firms and business size evolution in regional resilience**

[Adrian Healy](#)¹, [Nikos Kapitsinis](#)², [Max Munday](#)², [Annette Roberts](#)²

¹Cardiff School of Geography and Planning, United Kingdom. ²Cardiff Business School, United Kingdom

Interval

14:30 - 14:45 Tuesday, 25th May, 2021

PLENARY SESSION II

14:45 - 15:45 Tuesday, 25th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/83563460045>

Keynote Speech



The Survival Of The City

Prof. Edward L. Glaeser

Harvard University, United States

Chair **Carlos Azzoni**, University of Sao Paulo, Brazil

Discussant **Andrea Caragliu**, Politecnico di Milano, Italy

Interval

15:45 - 16:00 Tuesday, 25th May, 2021

PARALLEL SESSIONS (4)

National Session: SS55.1 - Regional Science in Angola



16:00 - 17:15 Tuesday, 25th May, 2021

Room FIPE

<https://us02web.zoom.us/j/87320775891>

Chair Tomaz Dentinho

458 Youth Precarity and Resilience in Angola's Sub-Urban Settings

Jose Katito, Josefina Castellero

Universidade Óscar Ribas, Angola

- 476 **Typologies of Agriculture and the Decision to Invest in Family Farms. A Chi-Square Analysis**
[Hélder Marcelino](#)
Associação de Ciência Regional de Angola, Angola
- 478 **Poor people on the outskirts of Luanda city in times of pandemic: social practices, hits and misses**
[Joaquim Calundungo](#)
Universidade Agostinho Neto, Angola. Associação de Ciência Regional de Angola, Angola
- 480 **Cultural Tourism in Angola and Local Development: A Reality or Still a Challenge?**
[Ziva Domingos](#)
School of Hospitality Management and Tourism of Agostinho Neto University, Angola

National Session: SS56.1 - The Colombian Economy and its Regional Structural Challenges



16:00 - 17:15 Tuesday, 25th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/84686769452>

Chair Jaime Bonet

- 80 **Elasticities of Regional Total Factor Productivity in the Colombian Economy**
[Carlos Espinel](#)¹, [Eduardo Haddad](#)²
¹Federal University of São Carlos, Brazil. ²University of São Paulo, Brazil
- 484 **Revisiting the structural interdependence: a comparative analysis for Brazil, Colombia, and Mexico**
[Fernando Perobelli](#)¹, [Geoffrey Hewings](#)²
¹Federal University of Juiz de Fora, Brazil. ²University of Illinois at Urbana Champaign, USA
- 497 **Regional Differences in the Economic Impact of Lockdown Measures to Prevent the Spread of COVID-19**
[Jaime Bonet](#)¹, [Diana Ricciulli](#)¹, [Javier Pérez](#)¹, [Eduardo Haddad](#)², [Inacio Araujo](#)², [Fernando Perobelli](#)³
¹Banco de la República, Colombia. ²Sao Paulo University, Brazil. ³Universidade Federal de Juiz de Fora, Brazil

Regular Session: RS15.1 - Theoretical and empirical urban economics

16:00 - 17:15 Tuesday, 25th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/88466279359>

Chair Janet Kohlase

- 5 **Smart Cities and the urban digital divide**
[Andrea Caragliu](#)¹, [Chiara Del Bo](#)²
¹Politecnico di Milano, Italy. ²Università degli Studi di Milano, Italy

286 A Political-Economy Perspective on Mayoral Elections and Urban Crime

[Amit Batabyal](#)¹, [Hamid Beladi](#)²

¹Rochester Institute of Technology, USA. ²University of Texas at San Antonio, USA

292 The Silver Economy in European Cities

[Carolina Foglia](#), [Maria Laura Parisi](#), [Nicola Pontarollo](#)

University of Brescia, Italy

319 Evaluation of the complex indicators of Smart Cities

[Tamas Dusek](#)

Szechenyi Istvan University, Hungary

Regular Session: RS14.1 - The spatial dimension of sustainable development

16:00 - 17:15 Tuesday, 25th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/89679862880>

Chair Itai Beeri

53 Central-Local Territoriality — But in Moderation: Are Boundary Commissions a Mechanism for Preserving and Minimizing Spatial Inequality?

[Itai Beeri](#)

University of Haifa, Israel

90 Results Based Management: RBM: An Antidote to Program management

[Bongs Lainjo](#)

Cybermatic International, Canada

287 Does prior performance across SDGs relate to the success against COVID-19? A country-level analysis

[Damla Benli](#), [Arzu Ece Cetin](#), [Gokcen Arkali Olcay](#)

Gebze Technical University, Turkey

528 Small area estimation of multidimensional poverty: the case of Cambodia

[Karina Acosta](#)

Cornell University, USA

Regular Session: RS06.1 - Methods in Regional Science and Urban Economics

16:00 - 17:15 Tuesday, 25th May, 2021

Room Agadir

<https://us02web.zoom.us/j/85836987366>

Chair Geoffrey Hewings

51 A note on the empirical identification of sub centralities within cities

[Carlos Azzoni](#), [Rodger Antunes](#)

University of Sao Paulo, Brazil

- 71 **Implications of General Relativity Theory for Regional Spatial Interaction Modeling**
[Laurie Schintler](#), [Kingsley Haynes](#), [Rajendra Kulkarni](#)
George Mason University, USA
- 155 **Enhancing Our Understanding of a Regional Economy: The Complementarity of CGE and EIO Models.**
[Andrew Crawley](#)¹, [Geoffrey J.D. Hewings](#)²
¹University of Maine, Orono, USA. ²REAL and University of Illinois, USA
- 281 **Cross-sectional Dependence in Gibrat's Law**
[Xieer Dai](#)
The Hebrew University of Jerusalem, Israel

Regular Session: RS09.1 - Regional and urban policy

16:00 - 17:15 Tuesday, 25th May, 2021

Room Fes

<https://us02web.zoom.us/j/88538303825>

Chair Patricia Peinado

- 44 **Public Pensions and Regional Distribution of Income**
[Patricia Peinado](#), [Felipe Serrano](#)
Universitu of the Basque Country UPV/EHU, Spain
- 162 **Effects of Covid-19 Crisis on Sustainable Development in Eu Regions**
[Daniela Antonescu](#)¹, [Raluca Mirela Iordache \(Antonescu\)](#)²
¹Institute of National Economy, Romania. ²The University of Bucharest Faculty of Geography Doctoral School, Romania
- 333 **Accessibility and Social Networks in Family Adhesion to Social Housing: Evidence from a Brazilian Housing Lottery Case**
[Patrick Nasser](#), [Eduardo Haddad](#)
University of São Paulo, Brazil

Special Session: SS12.2 - SMEs/Family Businesses and Regional Development

16:00 - 17:15 Tuesday, 25th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/88394645535>

Chair Lech Suwala

- 325 **Rethinking Cultural Policy: The Role of the Cultural Industry and Small Manufacturing Companies**
[Salma Mhamed Hichri](#)
University of Sfax- LAREQUAD, Tunisia
- 105 **Cross-border cooperation from the perspective of cultural diversity**
[Livia Ablonczy-Mihályka](#)
Széchenyi István University, Hungary

254 Radical Entrepreneurship: Challenging Caste-Based Discrimination and Socio-Structural Constraints to Inclusion in Rural Bangladesh

[Grace Mueller](#)

University of Edinburgh, United Kingdom. Cambridge Institute of Sustainability Leadership, United Kingdom.
University of Texas at Austin, USA

444 Family firms and economic spaces - building bridges between family business and regional studies /science

[Lech Suwala](#)¹, [Rodrigo Basco](#)²

¹Technische Universität Berlin, Germany. ²American University of Sharjah, UAE



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17:15 - 17:30 Tuesday, 25th May, 2021

PARALLEL SESSIONS (5)

National Session: SS56.2 - The Colombian Economy and its Regional Structural Challenges



ASOCIACIÓN COLOMBIANA
DE ESTUDIOS REGIONALES
Y URBANOS

17:30 - 18:45 Tuesday, 25th May, 2021

Room FIPE

<https://us02web.zoom.us/j/87320775891>

Chair Jaime Bonet

505 Boiling Hot! Economy-wide Impacts of Climate Change on Colombian Coffee Yields

[Pedro Sayon](#)

University of São Paulo, Brazil

509 Regional Economic Disparities in Colombia

[Andrea Otero](#), [Jaime Bonet](#), [Luis Galvis](#), [Javier Perez](#)

Central Bank of Colombia, Colombia

510 Urban Travelers Go to the Beach: Regional Effects of Domestic Tourism in Colombia

[Eduardo Sanguinet](#)¹, [Luis Galvis](#)², [Inácio Araújo](#)³, [Eduardo Haddad](#)³

¹Universidad Austral de Chile, Chile. ²Banco de la República, Colombia. ³FIPE, Universidad de Sao Paulo, Brazil

National Session: SS45 - Selected regional science topics in Mexico



17:30 - 18:45 Tuesday, 25th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/84686769452>

Chair Serena Serrano Oswald

- 332 **The regional socio-economic outlook of Mexico: inequalities during the pandemic lockdown, 2020**
[Carlos Bustamante-Lemus](#)
National Autonomous University of Mexico-Institute for Economic Research, Mexico
- 335 **Economic crisis and responses of the Mexican states under the COVID-19 pandemic**
[José Gasca-Zamora](#)
National University Autonomous of Mexico-Institute for Economic Research, Mexico. President of Mexican Association in Sciences for Regional Development (AMECIDER), Mexico
- 338 **Regional Economic Impacts in Mexico Caused by Floods on Agriculture: An Integrated Approach Via Spatial and CGE Modeling**
[José Antonio León Torres](#)¹, [Damares Lopes Afonso](#)², [Guilherme Silva Cardoso](#)³, [Luiz Augusto Magalhães](#)⁴, [Tânia Moreira Alberti](#)⁵
¹Institute of Engineering, National Autonomous University of Mexico, Mexico. ²Federal University of Juiz de Fora, Brazil. ³Federal University of Minas Gerais, Brazil. ⁴Catholic University of Brasilia, Brazil. ⁵Federal University of Parana, Brazil
- 350 **The Lithium Issue: What Happened - What Happens - What Shall Happen?**
[Jorge Ramon Serrano Moreno](#)
AMECIDER, Mexico. UNAM, Mexico

Regular Session: RS02.2 - Infrastructure, transportation and accessibility

17:30 - 18:45 Tuesday, 25th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/88466279359>

Chair Júlio Vicente Cateia

- 160 **Infrastructure Investment, Funding Schemes, and Poverty Reduction: Evidence for Guinea-Bissau**
[Júlio Vicente Cateia](#)¹, [Luc Savard](#)², [Terciane Sabadini Carvalho](#)³, [Maurício Vaz Lobo Bittencourt](#)³
¹Université Laval, Canada. ²Université de Sherbrooke, Canada. ³Universidade Federal do Paraná, Brazil

327 A Spatial Mismatch Analysis for Curitiba Metropolitan Area based on Accessibility to Formal Jobs Indexes

[Luiz Silva](#), [Alexandre Porsse](#)

Universidade Federal do Paraná, Brazil

428 Accessibility index to Italian universities

[Massimiliano Rossetti](#), [Greta Scolari](#), [Mario Boffi](#), [Matteo Colleoni](#)

University of Milano-Bicocca, Italy

Regular Session: RS04 - Local finance

17:30 - 18:45 Tuesday, 25th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/89679862880>

Chair Maha Assaad Idrissi

56 The practices of the management control system at the level of local authorities in the era of advanced regionalization

[Maha Assaad Idrissi](#)¹, [Omar Taouab](#)², [Youssra Oudda](#)²

¹L'ecole nationale de commerce et de gestion, Morocco. ²IBN Tofail University, Morocco

321 The subnational crowding out effect of mining windfalls on local tax effort: Does the level of local provision of public goods matter?

[Mauricio Oyarzo](#)¹, [Dusan Paredes](#)²

¹School of Business Administration, Universidad de Concepción, Chile. ²Department of Economics, Universidad Católica del Norte, Chile

436 Effects of banking concentration on micro and small firms in Brazil

[Tyago Carmo](#), [Santos Gervasio](#)

Federal university of Bahia, Brazil

531 An Analysis of Impact of Microfinance in Alleviating Poverty: The Case of Sri Lanka

[N.P Dammika Padmakanthi](#)

Senior Lecturer, Department of Economics, University of Kelaniya, Sri Lanka

Regular Session: RS05 - Location theory and applications

17:30 - 18:45 Tuesday, 25th May, 2021

Room Agadir

<https://us02web.zoom.us/j/85836987366>

Chair Graham Clarke

65 Incorporating e-commerce into retail location models

[Graham Clarke](#)

University of Leeds, United Kingdom

190 Location determinants and sustainability: an exploratory approach

[Josep-Maria Arauzo-Carod](#)

ECO-SOS (Universitat Rovira i Virgili), Spain

203 Spatial organisation of the innovative business in the urban area – new framework

[Maria Kubara](#)

University of Warsaw, Faculty of Economic Sciences, Poland

Regular Session: RS10.3 - Regional development

17:30 - 18:45 Tuesday, 25th May, 2021

Room Fes

<https://us02web.zoom.us/j/88538303825>

Chair Juliana Cristofani

- 229 **The Geography of Manufacturing Productivity Shocks in Colombia**
[Carlos Eduardo Espinel Campos](#)¹, [Eduardo Amaral Haddad](#)², [Inácio Fernandes de Araújo Júnior](#)²
¹Federal University of São Carlos, Brazil. ²University of São Paulo, Brazil
- 454 **The routine tasks in labor markets and the gender wage gap in Brazil**
[Ana Abras](#), [Giovana Cavaggioni Bigliazzi](#), [Mônica Yukie Kuwahara](#)
Graduate Program in Economics (PPGE), Federal University of ABC (UFABC), Brazil
- 465 **China Shock and Female Labor Market Participation in Brazil**
[Juliana Cristofani](#), [Ana Claudia Polato e Fava](#), [Monica Yukie Kuwahara](#)
Federal University of ABC (UFABC), Brazil

Special Session: SS10 - Regions and cities at the edge of the new technological era

17:30 - 18:45 Tuesday, 25th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/88394645535>

Chair Camilla Lenzi

- 300 **European regions, resilience and labour dislocation in the age of the fourth industrial revolution.**
[Fabiano Compagnucci](#)¹, [Andrea Gentili](#)², [Enzo Valentini](#)³, [Mauro Gallegati](#)⁴
¹Gran Sasso Science Institute (GSSI), Social Sciences, Italy. ²Università degli Studi Internazionali di Roma, Faculty of Economics, Italy. ³Università degli Studi di Macerata, Department of Political Science, Communication and International Relations, Italy. ⁴Università Politecnica delle Marche, Department of Management, Italy
- 103 **Geographic Variations in Autonomous Vehicle Interest and Perceived Benefits**
[Elizabeth Mack](#)
Michigan State University, USA
- 183 **Regional patterns of 4.0 technological transformation. Conceptual reflections and empirical evidence from European regions**
[Roberta Capello](#), [Camilla Lenzi](#)
Politecnico di Milano, Italy
- 104 **How can Complexity Theory and Data Science assist Smart City Governance? A review**
[Yiqiao Chen](#), [Elisabete Silva](#)
University of Cambridge, United Kingdom

Wednesday, 26 May 2021

PARALLEL SESSIONS (6)

National Session: SS57 - Regional Science in Bangladesh



09:30 - 10:45 Wednesday, 26th May, 2021

Room FIPE

<https://us02web.zoom.us/j/86856640416>

Chair Md. Musleh Uddin Hasan

- 397 **Prioritization Cities in Bangladesh for Bus Rapid Transit (BRT) Development**
Bristi Basak, Md Musleh Uddin Hasan
Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh, Bangladesh
- 409 **Economic Analysis of Solar Irrigation Pumps: Evidence from Northern Region of Bangladesh**
Md. Tawhidul Islam¹, Md. Elias Hossain²
¹Department of Economics, Pabna University of Science and Technology, Pabna, Bangladesh. ²Department of Economics, University of Rajshahi, Bangladesh
- 410 **Environmental Amenity and Rental Value of Houses in Rajshahi City: A Hedonic Pricing Approach**
Md. Abdus Sobhan, Md. Elias Hossain
Department of Economics, University of Rajshahi, Bangladesh

National Session: SS51.2 - Sustainable Regional Development in China



09:30 - 10:45 Wednesday, 26th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/84728052596>

Chair Jian Wang

- 474 **Spatial Agglomeration and Firm Productivity: Does Trade Status Matter?**
Jian Wang^{1,2}, Qing Liu³
¹Shanghai University, China. ²University of Technology Sydney, Australia. ³Hefei University of Technology, China
- 514 **Place-based Policies, Trade Cost, and Regional Convergence**
Xuebing Dong, Ruonan Chi, Xilei Xu
Zhejiang University, China

- 518 Climate Suitability for Tourism in China in an Era of Climate Change: A multiscale analysis using a tourist defined holiday climate index**

[Dandan Yu](#)

East China Normal University, China

- 524 Research on the Efficiency of Technological Innovation in Chinese Industrial Enterprises**

[Yuting Li Shuyan Zhen](#)

Northeast Normal University, China

Regular Session: RS02.3 - Infrastructure, transportation and accessibility

09:30 - 10:45 Wednesday, 26th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/84223142845>

Chair Eko Wicaksono

- 167 Closing regional infrastructure gaps in Indonesia**

[Fauziah Zen](#)^{1,2}, [Riatu Mariatul Qibthiyyah](#)³

¹Economic Research Institute for ASEAN and East Asia, Indonesia. ²University of Indonesia, Indonesia. ³Institute for Economic and Research, University of Indonesia, Indonesia

- 363 Does Social-Distancing Save Lives?: The Impact of Social Distancing Measures on People Mobility and COVID-19 Cases in Indonesia**

[Bondi Arifin](#), [Eko Wicaksono](#), [Nugraheni Kusumaningsih](#)

Fiscal Policy Agency, Indonesia

- 379 Negative Externalities from Port Development: Evidence from Marine Pollution in Indonesia**

[Muhammad Halley Yudhistira](#)^{1,2}, [Indra Degree Karimah](#)³, [Nadya Rahmi Maghfira](#)^{1,2}

¹Institute for Economic and Social Research, Faculty of Economics and Business, Universitas Indonesia, Indonesia. ²Cluster of Urban and Transportation Economics, Department of Economics, Universitas Indonesia, Indonesia. ³Ministry of Transportation, Republic of Indonesia, Indonesia

Regular Session: RS11.1 - Rural development

09:30 - 10:45 Wednesday, 26th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/87822655076>

Chair Charles Kofi Owusu

- 197 Renewable Minigrids for Rural Electrification in Ghana: Analysis of Households' Willingness to Pay**

[Artem Korzhenevych](#)^{1,2}, [Charles Kofi Owusu](#)^{2,3}

¹Leibniz Institute of Ecological Urban and Regional Development, Germany. ²Technische Universität Dresden, Faculty of Business and Economics, Germany. ³Kumasi Institute of Technology, Energy and Environment, Ghana

- 313 Livelihood Resilience and Coping Strategies of Selected Rural Households in Bangladesh during the COVID-19 Pandemic**

[Farzana Faiza Farha](#), [Rifat Jahan Biva](#), [Maria Mehrin](#), [Mohammad Ashraf Ali](#), [Md. Musleh Uddin Hasan](#), [Nawshin Tabassum](#), [Paromita Shome](#)

Department of Urban and Regional Planning, Bangladesh University of Engineering and Technology (BUET), Bangladesh

342 A Study of Promoting Mobile Broadband Adoption in African Developing Countries for Achieving SDGs.

[Sobe Shinohara](#)

KDDI Research, Inc., Japan

472 Use of Technology in the Rural Households of Bangladesh Having Migrant Members

[Tasnuva Zaman](#), [Md. Musleh Uddin Hasan](#), [Neelopal Adri](#), [Nawshin Tabassum](#)

Department of Urban and Regional Planning, Bangladesh University of Engineering and Technology, Bangladesh

Regular Session: RS19.1 - Green economy and complexity of socio-ecosystems

09:30 - 10:45 Wednesday, 26th May, 2021

Room Agadir

<https://us02web.zoom.us/j/83755733224>

Chair Yue Hua

17 Does global value chain engagement affect pollution: Evidence from Chinese firms

[Yue Hua](#)¹, [Yue Lu](#)², [Ruili Zhao](#)³

¹Hunan University, China. ²China Institute for WTO Studies, University of International Business and Economics, China. ³Shanghai University of International Business and Economics, China

143 Community Gardens and Urban Residents' Quality of Life (QOL): A Case Study from Shanghai, China

[Yingjie Ge](#)¹, [Lily Kiminami](#)², [Shinichi Furuzawa](#)²

¹Graduate School of Science and Technology, Niigata University, Japan. ²Niigata University, Japan

221 Developing renewable electricity with carbon tax recycling mechanisms in the East Asia region

[Yuventus Effendi](#), [Budy Resosudarmo](#)

Arndt Corden Department of Economics, Australia

339 The Role of NGO's in Shaping Indonesia's Climate Change Policies

[Rakhmindyarto Rakhmindyarto](#)

Fiscal Policy Agency, Indonesia

Regular Session: RS09.2 - Regional and urban policy

09:30 - 10:45 Wednesday, 26th May, 2021

Room Fes

<https://us02web.zoom.us/j/81342024716>

Chair Noriko Horie

49 Contribution of Urban Facilities for Regional Sustainability through Museum-like Functions

[Noriko Horie](#)¹, [Kiyoko Hagihara](#)², [Fumiko Kimura](#)³, [Chisato Asahi](#)²

¹Bukkyo University, Japan. ²Tokyo Metropolitan University, Japan. ³Soka University, Japan

- 228 **On the Working of the SOULFULIAN on Risk Society: An empirical analysis of the KARAHORIAN, Osaka, Japan**
[Kazuyoshi Hayama](#)
Japan
- 264 **Place-based SME finance policy and local industrial revivals: An empirical analysis of a directed credit program after WW2**
[Keisuke Takano](#)¹, [Hiroyuki Okamuro](#)²
¹University of Tsukuba, Japan. ²Hitotsubashi University, Japan
- 377 **The Influence of the Pandemic of Coronavirus Disease 2019 on the Use and Management of an Urban Park: A Case Study of the "Forest and Park for the 21st Century" in Matsudo, Chiba Prefecture**
[Tomoyoshi Kodama](#)¹, [Shigeto Yanai](#)¹, [Yuri Kando](#)²
¹Chiba University Graduate School of Horticulture, Japan. ²Tokyo Metropolitan Government, Japan

Special Session: SS18.3 - Urban Future in the Global South

09:30 - 10:45 Wednesday, 26th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/84114610826>

Chair Abdul Shaban

- 354 **'Jugaad' and Social Network of Bengali-speaking Muslim migrant workers in Mumbai**
[Debangana Baruah](#)
Tata Institute of Social Sciences, Mumbai, India
- 426 **The trajectory of planned urban development: A case study on Rajarhat- Newtown, Kolkata**
[Angana Banerjee](#)
India
- 430 **Transculturation and collective identity in subaltern spaces: Urban dynamics of the ethnic enclaves of Chitpur Road formed by multi-ethnic diaspora.**
[Pritam Dey](#)¹, [Paridhi Kedia](#)²
¹Anant National University, India. ²masters of anthropology(pursuing), India
- 551 **Impact of Urbanization on Micro Climate Change: A Case Study of Asansol city of West Bengal, India**
[Biswajit Ganai](#), [Lakshmi Sivaramakrishnan](#)
Jadavpur University, India

Special Session: SS27 - Discontent, Hate & Intolerant Attitudes

09:30 - 10:45 Wednesday, 26th May, 2021

Room Lagouira

<https://us02web.zoom.us/j/88689482335>

Chair Alessandra Michelangeli

- 451 The geography of discontent or the discontent of the people. Evidence from individual data for some European countries.**
Enrique López-Bazo
AQR–University of Barcelona, Spain
- 277 The urban-rural divide in anti-EU vote: Social, demographic and economic factors affecting the vote for parties opposed to European integration**
Laura de Dominicis¹, Lewis Dijkstra¹, Nicola Pontarollo²
¹European Commission, DG REGIO, Belgium. ²University of Brescia, Italy
- 170 Electoral Earthquake: Natural Disasters and the Geography of Discontent**
Augusto Cerqua, Chiara Ferrante, Marco Letta
Sapienza University of Rome, Italy
- 163 Inclusive Attitudes towards Immigrants in Europe: The Role of Preferences, Space, and Economic Outcomes**
Riccardo Borgoni¹, Dario Casamassima², Caterina Liberati¹, Alessandra Michelangeli^{1,3,4}
¹DEMS, University of Milan-Bicocca, Italy. ²University of Milan-Bicocca, Italy. ³Center for European Studies, Italy. ⁴CISEPS, Italy

Interval

10:45 - 11:00 Wednesday, 26th May, 2021

PARALLEL SESSIONS (7)

National Session: SS16.2 - Smart, sustainable, resilient regions: Responses to pandemic challenges



ROMANIAN SECTION

11:00 - 12:15 Wednesday, 26th May, 2021

Room FIPE

<https://us02web.zoom.us/j/86856640416>

Chair Romeo Ionescu

- 256 The Romanian Response to the COVID-19 Crisis: local, county or regional effort? A perspective on vaccination campaign**
Elena Grad-Rusu, Antoanela-Paula Mureşan
Faculty of European Studies, Babeş-Bolyai University, Romania
- 323 Remote working as driver for individual and organizational resilience in pandemic context**
Alina Georgiana Profiroi, Maria-Roxana Briscariu
Bucharest University of Economic Studies, Romania

- 368 Making communities resilient during the COVID-19 Pandemic. Who Complies with Social-Distancing rules? An analysis on the Metropolitan Area of Cluj-Napoca**
Alina Pavelea, Alexandru Pavel
Babeş-Bolyai University, Romania
- 467 The intriguing connections between regional tourism and economic resilience**
Bogdan-Constantin Ibanescu¹, Gabriela Carmen Pascariu¹, Peter Nijkamp², Karima Kourtiti²
¹Centre for Interdisciplinary Research in European Studies, Faculty of Law, Alexandru Ioan Cuza University of Iasi, Romania. ²Open University, Heerlen, Netherlands
- 521 Smart Cities from Low Cost to Expensive Solutions. An Optimal Analysis**
Romeo Ionescu¹, Monica Laura Zlati², Valentin-Marian Antohi¹
¹Universitatea Dunarea de Jos din Galati, Romania. ²Stefan cel Mare University, Suceava, Romania, Romania

National Session: SS48B.2 - Regional Science in Russia



11:00 - 12:15 Wednesday, 26th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/84728052596>

Chair Alexander Pelyasov

- 372 How different patterns of urbanization affect regional innovation? Evidence from Russia**
Sabyasachi Tripathi, Evgeniy Kutsenko, Victoria Boos
National Research University Higher School of Economics, Russian Federation
- 376 Radical Innovations and Industrial Structure of Regions: Insights from Russia**
Evgeniy Kutsenko, Kirill Tyurchev, Vasily Abashkin, Ekaterina Ivanova
National research university Higher School of Economics, Russian Federation
- 417 The impact of international skilled migration on innovation resilience of Russian coastal regions**
Andrey Mikhaylov^{1,2}, Anna Lialina¹, Daniil Maksimenko³
¹Immanuel Kant Baltic Federal University, Russian Federation. ²Institute of Geography RAS, Russian Federation. ³Higher School of Economics, Russian Federation

Regular Session: RS03.2 - Knowledge and innovation

11:00 - 12:15 Wednesday, 26th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/84223142845>

Chair Roberto Antonietti

- 199 Innovation for Sustainable Development in Poor Countries- Lessons from Ethiopia**
Raphael Bar-Eli^{1,2}, Dafna Schwartz³, Jennifer Shkabatur³
¹Ben-Gurion University, Israel. ²Sapir Academic College, Israel. ³Interdisciplinary Center (IDC), Herzliya, Israel

- 280 Key Enabling Technologies and the complexity of jobs, tasks, and skills in Emilia-Romagna**
[Roberto Antonietti](#)¹, [Luca Cattani](#)², [Francesca Gamberotto](#)³, [Giulio Pedrini](#)⁴
¹"Marco Fanno" Department of Economics and Management, University of Padova, Italy. ²Department of Social and Political Sciences, University of Bologna, Italy. ³Department of Philosophy, Sociology, Education & Applied Psychology Section of Sociology, University of Padova, Italy. ⁴Faculty of Economics and Law, Kore University of Enna, Italy
- 373 Analysis on the Relationship between Human Capital Expansion and Export Product Diversification: Evidence from Chinese Industrial Enterprise**
[Jiayue Liu](#), [Ying Hu](#)
School of Economics, South-Central University for Nationalities, China
- 386 The formation mechanism of spatial agglomeration of urban cultural industry—case study on Chengdu City**
[Mingxia He](#)
Sichuan University of Science & Engineering, China

Regular Session: RS15.2 - Theoretical and empirical urban economics

11:00 - 12:15 Wednesday, 26th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/87822655076>

Chair Daniela-Luminita Constantin

- 91 Endogenous growth policies for lagging cities and regions**
[Danny Czamanski](#)
Ruppin Academy, Israel
- 293 Long-term organization of urban growth in France (1800-2015). Which reality in time and space of stochastic processes "à la" Gibrat?**
[Aureliz Lalanne](#)
University of Bordeaux, France
- 302 Smart City – Resilient City: Synergies and Trade-Offs**
[Daniela-Luminita Constantin](#)¹, [Cristina Serbanica](#)^{2,1}
¹Bucharest University of Economic Studies, Romania. ²Constantin Brancoveanu University of Pitesti, Romania
- 337 Faraway, So Close! The interregional trade between Spain and Morocco**
[Fatima El Khatabi](#), [Carlos Llano](#)
Universidad Autónoma de Madrid, Spain

Regular Session: RS14.2 - The spatial dimension of sustainable development

11:00 - 12:15 Wednesday, 26th May, 2021

Room Agadir

<https://us02web.zoom.us/j/83755733224>

Chair Ekaterina Kadochnikova

- 89 **The Moroccan protected area network toward the integration of biodiversity in territorial development**
[Said Hajib](#)
Centre de Recherche Forestière, Morocco
- 154 **Technology diffusion and consumption growth: identifying spatial effects**
[Nailya Bagautdinova](#), [Ekaterina Kadochnikova](#)
Kazan Federal University, Russian Federation
- 225 **Towards a circular development approach to integrate les bidonvilles within Casablanca**
[Oumkaltoum Boudouaya](#), [Marcin Dabrowski](#)
TU Delft, Netherlands

Regular Session: RS10.4- Regional development

11:00 - 12:15 Wednesday, 26th May, 2021

Room Fes

<https://us02web.zoom.us/j/81342024716>

Chair Zoltán Gál

- 54 **Nature of Poverty and Inequality in Selected Asian and West African Countries**
[Debasis Patnaik](#), [Pathik Gandhi](#), [Roshan Nair](#)
BITS Pilani K K Birla Goa Campus, India
- 157 **Geoeconomics of transformation and economic bordering of Central and Eastern Europe**
[Zoltán Gál](#)^{1,2}, [Szilárd Rácz](#)¹
¹Centre for Economic and Regional Studies, Hungary. ²University of Pécs, Hungary
- 347 **Analysis on Human Capital Inequality between Regions in Indonesia with Alternative Human Development Index (AHDII) Approach**
[Kikin Windhani](#)^{1,2}, [Tri Mulyaningsih](#)²
¹Universitas Jenderal Soedirman, Indonesia. ²Universitas Sebelas Maret, Indonesia
- 423 **Digital Innovation Hubs as new paradigm in Europe for digital ecosystem development in Smart Cities**
[Tamas Gyulai](#)
Doctoral School of Regional and Business Administration Sciences, Széchenyi István University, Győr, Hungary, Hungary

Special Session: SS18.4 - Urban Future in the Global South

11:00 - 12:15 Wednesday, 26th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/84114610826>

Chair Abdul Shaban

- 362 **Onslaught of Urbanization and Anthropogenic activities on Kamwari River: Dying Rivers in the Global south**
[Oneza Farid](#)
Aqsa Women's Degree College, India

- 399 **Sustainable urban mobility infrastructure in cities of the Global South: Evidence from Mumbai Metropolitan Region**
[Sanjukta Sattar](#)
University of Mumbai, India
- 405 **Migrants, Media and Urban Spaces in the Global South: Exploring Representation and Marginality**
[Manish K Jha](#)¹, [M. Ibrahim Wani](#)²
¹Tata Institute of Social Sciences, India. ²Institute of Kashmir Studies, University of Kashmir, India
- 508 **Educational Intuitions in Bridging the Socio-Spatial Exclusions and Promoting Social Mobilities: A Study of Muslim and Dalits Women in Mumbai**
[Zinat Aboli](#)
Mithibai College, University of Mumbai, India

Special Session: SS28 - Smart Actors for Smart Regions

11:00 - 12:15 Wednesday, 26th May, 2021

Room Lagouira

<https://us02web.zoom.us/j/88689482335>

Chair Chiara Tagliaro

- 112 **What's new for understanding and managing people's use of the built environment?**
[Alice Pomè](#), [Silvia Leoncini](#), [Chiara Tagliaro](#)
Politecnico di Milano, Italy
- 25 **Identikit of PROPTech Players from Italy to Finland: Understanding the Real Estate Evolution**
[Alessandra Migliore](#)¹, [Chiara Tagliaro](#)¹, [Vitalija Danivska](#)², [Silvia Leoncini](#)¹, [Alice Pomè](#)¹
¹Politecnico di Milano, Italy. ²Aalto University, Finland
- 26 **Location Analysis: New Perspectives for Real Estate Players**
[Chiara Tagliaro](#), [Gianandrea Ciaramella](#)
Politecnico di Milano, Italy

LUNCH BREAK

12:15 - 13:15 Wednesday, 26th May, 2021

PARALLEL SESSIONS (8)

National Session: SS44 - Mapping Co-Working Spaces: Spatial Patterns and Location Factors



BÖLGE BİLİMİ TÜRK MİLLİ KOMİTESİ
TURKISH NATIONAL COMMITTEE OF REGIONAL SCIENCE

13:15 - 14:30 Wednesday, 26th May, 2021

Room FIPE

<https://us02web.zoom.us/j/86856640416>

Chair Tüzin Baycan

457 Local variations of spatial colocation of creative industries and coworking spaces in European metropolitan areas

[Pavel Bednář¹](#), [Iliaria Mariotti²](#), [Lukáš Danko¹](#), [Federica Rossi²](#)

¹Tomas Bata University in Zlin, Czech Republic. ²Politecnico di Milano, Italy

504 Location Patterns and Spatial Distribution of Co-working Spaces in Istanbul

[Meltem Parlak](#), [Tuzin Baycan](#)

Istanbul Technical University - City and Regional Planning, Turkey

530 Geographies of collaborative spaces in Poland

[Grzegorz Micek¹](#), [Karolina Małochleb¹](#), [Katarzyna Wojnar²](#)

¹Jagiellonian University, Poland. ²Centre for European Regional and Local Studies (EUROREG), University of Warsaw, Poland

511 Mapping Spatial Patterns of Co-working Spaces in Europe

[Tüzin Baycan](#), [Gülfiye Özcan Alp](#)

Istanbul Technical University, Turkey

National Session: SS64 - Portuguese Regional Science



13:15 - 14:30 Wednesday, 26th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/84728052596>

Chair Francisco Carballo-Cruz

562 Regional Value Chains: an input-output model application

[João-Pedro Ferreira](#)

University of Florida, USA. GOVCOPP, University of Aveiro, Portugal

563 Regional Scientists in Portugal: An analysis of what they think they are

[Tomaz Dentinho](#)

University of Azores, Portugal

564 How to define Entrepreneurial Ecosystems?

[João Leitão^{1,2}](#), [Sónia de Brito¹](#)

¹University of Beira Interior, Portugal. ²ICS, University of Lisbon, Portugal

566 Space and Territory in the Context of Regional Development

[João Lourenço Marques](#), [Paulo Batista](#), [Eduardo Castro](#)

GOVCOPP, Dept. of Social, Political and Territorial Sciences, University of Aveiro, Portugal

567 Thirty years of Regional Science in Portugal

[Francisco Carballo-Cruz](#)

Universidade do Minho and NIPE, Portugal

Regular Session: RS07.2 - Migration and regional labor markets

13:15 - 14:30 Wednesday, 26th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/84223142845>

Chair Vicente Royuela

- 13 **Market Potential with Regional Price Deflators**
[Bartłomiej Rokicki](#)
University of Warsaw, Poland
- 207 **An Italian good practice of inclusive teaching for migrant students in an intersectional perspective**
[Giovanna Filosa](#), [Maria Parente](#)
Inapp, Italy
- 237 **Spatial Heterogeneity in the Spanish Labour Market after the Great Recession**
[Jordi López-Tamayo](#), [Raul Ramos](#), [Vicente Royuela](#)
AQR-IREA Resarch Group, Universitat de Barcelona, Spain
- 446 **Uncovering the inter- and intra-regional heterogeneities in the minimum wage - employment relationship**
[Aleksandra Majchrowska](#)¹, [Paweł Strawiński](#)²
¹University of Lodz, Poland. ²University of Warsaw, Poland

Regular Session: RS18.2 - Resilience and Risk Management

13:15 - 14:30 Wednesday, 26th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/87822655076>

Chair Imane Boutahri

- 121 **Flash Flood Hazard Diagnosis Based on Geomorphology, Hydrology and GIS Techniques (Case Study of Kert Basin, Morocco)**
[Imane Boutahri](#)¹, [Larbi Barhaz](#)², [Rachida El Morabet](#)², [Taieb Boumeza](#)¹
¹Faculty of Art and humanities, Morocco. ²FLSH Mohammedia- Université Hassan II de Casablanca, Morocco
- 122 **Diagnosis of the dams silting in the Mediterranean region in the context of climate change: "Case of the MBAK dam located in the Nekor watershed in North-East Morocco"**
[Abderrahim Boukhari](#)¹, [Hicham Alaqui](#)², [Mustapha Naimi](#)³, [Chikhaoui Mohammed](#)³
¹NOVEC, Morocco. ²Climatic and forest risk management center, Morocco. ³IAV, Morocco
- 303 **Countries clustering in the context of the pandemic COVID-19**
[Carolina Guevara-Rosero](#)
Departamento de Economía Cuantitativa, Ecuador
- 494 **Managed retreat in the face of climate change: What influences buyouts of floodplain properties**
[Qing Miao](#)¹, [Meri Davlasheridze](#)²
¹Rochester Institute of Technology, USA. ²Texas A&M University at Galveston, USA

Regular Session: RS12.3 - Spatial implications of climate and environmental change

13:15 - 14:30 Wednesday, 26th May, 2021

Room Agadir

<https://us02web.zoom.us/j/83755733224>

Chair Linda Jemily

- 52 **Bedforms Characterization of the Bouregreg Estuary Using Remote Acoustic Technique**
[Linda Jemily](#), [Nadia Mhammdi](#), [Amine Raki](#)
Institut Scientifique, Morocco
- 86 **Land use changes as a factor increasing the vulnerability of the municipality of El Faid to the impacts of climate change**
[Mohamed Koudsi](#), [Abdellatif Khattabi](#)
Ecole Nationale Forestiere D'ingenieurs, Morocco
- 87 **Climate change impact on spatial distribution of Moroccan forest ecosystems**
[Said Moukrim](#)¹, [Said Lahssini](#)², [Hicham Alaoui](#)³, [Adnane Labbaci](#)⁴, [Laila Rhazi](#)¹
¹Mohammed V University, Morocco. ²National Forestry School of Engineers- Sale, Morocco. ³Climatic and forest risk management center, Morocco. ⁴Ibn Zohr University, Morocco
- 113 **Assesing the economic impacts of siltation in the dam of Oued el Makhazine**
[Widad Darif](#)¹, [Abdellatif Khattabi](#)²
¹Département des Eaux et Forêts, Morocco. ²Ecole Nationale Forestière d'Ingénieurs, Morocco

Regular Session: RS17.2 - Globalization and territorial intelligence

13:15 - 14:30 Wednesday, 26th May, 2021

Room Fes

<https://us02web.zoom.us/j/81342024716>

Chair Andrea Omizzolo

- 114 **Analysis of the role of the social and solidarity economy in the development and territorial governance of a rural municipality**
[Redouane Elmkhayer](#), [Abdellatif Khattabi](#)
École Nationale Forestière D'ingénieurs, Morocco
- 115 **Economic valuation of ecosystem services in Al Hoceima national Park**
[Youness Kasstib](#), [Abdellatif Khattabi](#)
Ecole Nationale Forestière d'Ingénieurs, Morocco
- 116 **Open innovation, third place and Living Lab: state of the literature relating to the new generation of territorial development models**
[Elbroumi Soufiane](#), [Eddelani Oumhani](#), [Eddahmouny Hicham](#)
FSJES FES, Morocco

- 117 Traditional and innovative monitoring methods and tools to improve the management of flows and 'over-tourism' in (world) natural and cultural heritage sites: the case study of the Dolomites UNESCO WHS**

[Andrea Omizzolo](#)¹, [Dario Bertocchi](#)²

¹European Academy of Bolzano/Bozen (EURAC), Institute for Regional Development, Italy. ²Ca' Foscari University, Italy

Special Session: SS19.1 - The spatial dimension of energy transition policies, practices and technologies

13:15 - 14:30 Wednesday, 26th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/84114610826>

Chair Marcello Graziano

- 330 Networked regional urban systems, communities of interest or place? Investigating regional approaches and decentralization in renewable energy transitions of urban cities**

[Christina Hoicka](#), [Jessica Conroy](#)

York University, Canada

- 55 International collaboration in green energy technologies: Empirical evidence on OECD and BRIICs countries**

[Nicoletta Corrocher](#)¹, [Maria Luisa Mancusi](#)²

¹ICRIOS - Bocconi University, Italy. ²Università Cattolica, Italy

- 6 Energy efficiency-enhancing policies and firm performance: Evidence from the paper and glass industries in Italy**

[Andrea Caragliu](#)

Politecnico di Milano, Italy

- 240 Spreading resilience: A spatial analysis of the benefits of hardening techniques for a troubled power grid**

[Marcello Graziano](#)^{1,2}, [Adam Gallaher](#)², [Maurizio Fiaschetti](#)³

¹Southern Connecticut State University, USA. ²University of Connecticut, USA. ³University of Nottingham, United Kingdom

Special Session: SS33 - Plastic pollution and its environmental impact

13:15 - 14:30 Wednesday, 26th May, 2021

Room Lagouira

<https://us02web.zoom.us/j/88689482335>

Chair Abdellatif Khattabi

- 19 Assessment of visitors' perception of solid waste pollution and their willingness to pay in the Al Hoceima National Park beaches**

[Abdellatif Khattabi](#), [Zakia Rahmani](#)

Ecole Nationale Forestière d'Ingénieurs, Morocco

- 72 **Waste quantification (macro_micro) in the beaches of the Al Hoceima National Park**
Zakia Rahmani, Abdellatif Khattabi
Ecole nationale forestière d'ingénieurs, Morocco
- 73 **Potential impacts of Microplastics in the mediterranean marine environment: Al Hoceima bay case study**
Oumayma Bouadil¹, El Ouarghi Hossain¹, Benomar Mostapha², Benbrahim Samir²
¹National School of Applied Sciences of Al Hoceima, Morocco. ²National Institute for Fisheries Research, Tangier, Morocco
- 555 **Solving a Plastic Pollution Problem While Creating Better Income for Marginalized Women**
Diane Pruneau¹, Abdellatif Khattabi², Zakia Rahmani²
¹Université de Moncton, Canada. ²École Nationale Forestière d'Ingénieurs, Morocco

Interval

14:30 - 14:45 Wednesday, 26th May, 2021

PLENARY SESSION III

14:45 - 15:45 Wednesday, 26th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/83433510496>

Keynote Speech



Air Pollution, Extreme Weather and Infectious Diseases: How Health Hazards Threaten Urbanites' Happiness and the Value of Consumer Cities

Prof. Siqi Zheng

Massachusetts Institute of Technology, United States

Chair Neil Reid, University of Toledo, USA

Discussant Peter Nijkamp, Open University, Heerlen, Netherlands

Interval

15:45 - 16:00 Wednesday, 26th May, 2021

PARALLEL SESSIONS (9)

National Session: SS55.2 - Regional Science in Angola



16:00 - 17:15 Wednesday, 26th May, 2021

Room FIPE

<https://us02web.zoom.us/j/86856640416>

Chair Tomaz Dentinho

- 481 **Regional Externalities of the Angolan Oil Industry: An Interregional Input-Output Analysis**
[Cesar Pakissi](#)
FEC-UJES, Angola
- 482 **The Future of the Tourism Industry in Angola 'The Tourist Product Reflections'**
[Miguel Fernando](#)
Universidade Agostinho Neto, Angola
- 483 **The Impact of Technological Innovation as an Instrument in the Angolan Manufacturing Industry.**
[Miguel Fernando](#)
Universidade Agostinho Neto, Angola
- 485 **Tourism and Nature Conservation in the Huambo Province. An Analysis of Visitors Testimonials**
[Amália Chissoca](#)
Instituto Superior de Ciências de Educação - Huambo, Angola

National Session: SS58.1 - Argentinean social and economic challenges

SAER

SOCIEDAD ARGENTINA DE
ECONOMÍA REGIONAL

16:00 - 17:15 Wednesday, 26th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/84728052596>

Chair Pedro Luis Elosegui

548 Interprovincial trade in Argentina: main determinants

[Pedro Elosegui](#)¹, [Marcos Herrera](#)^{2,3}, [Jorge Colina](#)⁴

¹BCRA, Argentina. ²IELDE- UNSa, Argentina. ³Conicet, Argentina. ⁴IDESA, Argentina

549 Long-lasting effects of pandemics: The case of the 1918 influenza pandemic in Argentina

[Fernando Antonio Ignacio González](#)¹, [Juan Antonio Dip](#)², [Silvia London](#)¹

¹Instituto de Investigaciones Económicas y Sociales del Sur, Universidad Nacional del Sur/CONICET (IIESS, UNS-CONICET), Argentina. ²Facultad de Ciencias Económicas. Universidad Nacional de Misiones, Argentina

556 Beyond the political or administrative definition of the Argentinean economic regions, do their provinces have a common economic cycle?

[Facundo Sigal](#), [Jorge Camusso](#), [Ana Inés Navarro](#)

Universidad Austral, Argentina

Regular Session: RS06.2 - Methods in Regional Science and Urban Economics

16:00 - 17:15 Wednesday, 26th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/84223142845>

Chair Peter Batey

438 Forms and consequences of distance asymmetry

[Tamas Dusek](#), [Petra Kecskes](#)

Szechenyi Istvan University, Hungary

449 Effects of industrial agglomeration on the evolution of regional labor productivity (2010-2017)

[André Luiz Silva](#)¹, [Marcelo Bentes Diniz](#)²

¹Institute of Applied Social Sciences - Federal University of Pará (ICSA/UFGPA), Brazil. ²Graduate Program in Economics - Federal University of Pará, Brazil

488 Charles Booth and geodemographics: his London legacy in historical perspective

[Peter Batey](#)

University of Liverpool, United Kingdom

492 The Batey-Madden model: forty years and counting (or should that be multiplying?)

[Peter Batey](#)

University of Liverpool, United Kingdom

Regular Session: RS21.2 - Agriculture, fisheries and food security

16:00 - 17:15 Wednesday, 26th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/89003478979>

Chair Sandy Dall'erba

- 28 **Exploitation of European hake at the Port of Larache of Morocco**
[Chaimae El Bouzidi](#)¹, [Mounir Hassani Zerrouk](#)², [Said Benchoucha](#)³, [Mohammed Bakkali](#)¹
¹Faculté des Sciences et Techniques de Tanger, Morocco. ²Multidisciplinary Faculty of Larache, Morocco. ³Centre Régional de L'inrh, Tanger, Morocco
- 220 **IV-SDID: model and application**
[Sandy Dall'erba](#)¹, [Bill Ridley](#)¹, [Andre Chagas](#)², [Yilan Xu](#)¹
¹UIUC, USA. ²U. Sao Paulo, Brazil
- 466 **Social capital determinants of local food system resilience**
[Shriya Rangarajan](#)
Cornell University, USA

Regular Session: RS09.3 - Regional and urban policy

16:00 - 17:15 Wednesday, 26th May, 2021

Room Agadir

<https://us02web.zoom.us/j/83755733224>

Chair Zeynep Elburz

- 153 **Urbanization and Human Development Index: Cross country evidence**
[Sabyasachi Tripathi](#)
National Research University Higher School of Economics, Russian Federation
- 440 **Developing digital capacities from local perspective: the role of an extended supportive environment**
[Tamás Kaiser](#)
University of Public Service, Hungary
- 553 **Determinants of Well-Being in the Turkish Provinces**
[Zeynep Elburz](#)¹, [Karima Kourtiti](#)², [Peter Nijkamp](#)²
¹IZTECH, Turkey. ²Open University, Heerlen, Netherlands

Regular Session: RS10.5 - Regional development

16:00 - 17:15 Wednesday, 26th May, 2021

Room Fes

<https://us02web.zoom.us/j/81342024716>

Chair Gabriel Lyrio de Oliveira

- 191 **Spatial concentration of economic activities and regional export variety**
[Ticiana Grecco Zanon Moura](#)¹, [Mauro Ferrante](#)²
¹Universidade Estadual de Santa Cruz, Brazil. ²University of Palermo, Italy

- 249 **Estimating the Local Government Spending Multiplier for Brazilian States: an Input-Output and a General Equilibrium Analysis**
[Raphael Fernandes](#), [Eduardo Haddad](#)
University of Sao Paulo (USP), Brazil
- 352 **The Brumadinho dam rupture disaster in Minas Gerais (Brazil) and the productivity: regional economic impacts using a computable general equilibrium approach**
[Cláudio Eurico Seibert Fernandes da Silva](#)¹, [Victor Eduardo de Mello Valério](#)², [Rayan Wolf](#)³, [Thaís Diniz Oliveira](#)⁴, [Fernando Salgueiro Perobelli](#)¹
¹Federal University of Juiz de Fora, Brazil. ²Federal University of Itajubá, Brazil. ³Federal University of Viçosa, Brazil. ⁴Instituto I17, Brazil
- 435 **Long-term Effects of Conditional Cash Transfers on Children: The Brazilian Case**
[Gabriel Lyrio de Oliveira](#)¹, [André Luís Squarize Chagas](#)²
¹NEREUS - University of São Paulo, Brazil. ²University of São Paulo, Brazil

Special Session: SS19.2 - The spatial dimension of energy transition policies, practices and technologies

16:00 - 17:15 Wednesday, 26th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/84114610826>

Chair Andrea Caragliu

- 110 **The contribution of economic activity and energy consumption to CO2 emissions**
[Fernando Barreiro-Pereira](#), [Touria Abdelkader Benmesaud-Conde](#)
Universidad Nacional de Educacion a Distancia, Spain
- 529 **An Analysis of Socio Economics Factors that Affect to Use Energy Efficient Technologies in Household Sector: The Case of Sri Lanka**
[N.P Dammika Padmakanthi](#)
Senior Lecturer, Department of Economics, University of Kelaniya, Sri Lanka
- 88 **The spatial dimensions of greenhouse gas removal technologies to address climate change: a critical assessment**
[Nazmiye Balta-Ozkan](#)¹, [Adrian Williams](#)¹, [Khaled Abdou](#)¹, [Pietro Goglio](#)²
¹Cranfield University, United Kingdom. ²Wageningen University, United Kingdom
- 429 **'Gone with the wind'. Organised crime and the geography of wind and solar farms in Italy**
[Davide Luca](#)¹, [Alessio Romarri](#)²
¹University of Cambridge, United Kingdom. ²University of Barcelona, Spain

Special Session: SS23 - Understanding the role of Renewable Energy in the Water, Agriculture, Energy Nexus in West and North Africa

16:00 - 17:15 Wednesday, 26th May, 2021

Room Lagouira

<https://us02web.zoom.us/j/88689482335>

Chair Mariama Camara

- 120 **Findings and Lessons of the ProGREEN Renewable Energy Assessment in Burkina Faso**
[Lin Da](#)
ProGREEN, Burkina Faso
- 118 **Exploring Renewable Energy in Senegal: The ProGREEN West Africa Assessment**
[Khoudia Kane](#)
Direction des Financements verts et des Partenariats/Ministère de l'Environnement de l'Environnement et du Développement Durable, Senegal
- 119 **Understanding Small-scale Renewable Energy Transitions in West Africa, the ProGREEN Project**
[Mariama Camara](#)
START International, Burkina Faso

Interval

17:15 - 17:30 Wednesday, 26th May, 2021

PARALLEL SESSIONS (10)

National Session: SS46 - Poverty and Local Economy Development in Ecuador



17:30 - 18:45 Wednesday, 26th May, 2021

Room FIPE

<https://us02web.zoom.us/j/86856640416>

Chair Patricio Aroca

- 383 Determinants of manufacturing micro firms' productivity in Ecuador. Do industry and canton where they operate matter?**
[Carolina Guevara](#)
Department of Quantitative Economics, Escuela Politécnica Nacional, Ecuador
- 525 Subnational poverty dynamics in developing countries: the cases of Ecuador and Uruguay**
[Obaco Moises](#)¹, [Nicola Pontarollo](#)², [Rodrigo Mendieta](#)³
¹Universidad Católica del Norte, Chile. ²Department of Economics and Management University of Brescia, Italy.
³GIER, Universidad de Cuenca, Ecuador
- 526 Post-earthquake short-run labor income shifts. What happens with the distribution of wages after an Earthquake?**
[César Andrés Mendoza](#)¹, [Benjamin Jara](#)²
¹Universidad de Cuenca, Ecuador. ²Gran Sasso Science Institute, Italy
- 527 Oil royalties and multidimensional poverty in Ecuador: Have the extraction regions improved their living standards?**
[Viviana Carriel](#)¹, [César Andrés Mendoza](#)², [Nicola Pontarollo](#)³, [Rodrigo Mendieta](#)²
¹Universidad Católica de Cuenca, Ecuador. ²Universidad de Cuenca, Ecuador. ³Department of Economics and Management University of Brescia, Italy

National Session: SS45.2 - Selected regional science topics in Mexico



17:30 - 18:45 Wednesday, 26th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/84728052596>

Chair Serena Serrano Oswald

- 464 Sustainable Community Development through the Perspective of a Type B Company: Yucatan, Mexico Case Study**
[Mayanin Sosa Alcaraz](#), [Adriel Elí Cáceres Ruiz](#), [Gustavo Monforte Mendez](#), [Andres Pereyra Chan](#)
Tecnológico Nacional de México/Instituto Tecnológico de Mérida, Mexico
- 487 The role of Public management in the promotion of intelligent tourist destination: the challenge for Cozumel, Quintana Roo, Mexico**
[Alex Adiel Cano Herrera](#), [Crucita Aurora Ken](#)
University of Quintana Roo, Mexico
- 356 Gender Based Political Violence against Women in Mexico: A Multidisciplinary Research Model Proposal**
[Serena Eréndira Serrano Oswald](#)
CRIM-UNAM, Mexico

Regular Session: RS02.4 - Infrastructure, transportation and accessibility

17:30 - 18:45 Wednesday, 26th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/84223142845>

Chair Jean-Claude Thill

- 59 **A grand transport infrastructure for Grand Casablanca**
[Alex Anas¹](#), [Sayan DeSarkar¹](#), [Govinda Timilsina²](#)
¹SUNY at Buffalo, USA. ²World Bank, USA
- 60 **The System of Seaports in the Southern African Cone: Hinterlands and Shippers Choices**
[Jean-Claude Thill](#)
University of North Carolina at Charlotte, USA
- 244 **Subway expansion, jobs accessibility improvements and home value appreciation in four global cities: Considering both local and network effects**
[Adriano Borges Costa](#), [Camila Ramos](#), [Siqi Zheng](#)
MIT Center for Real Estate, USA
- 305 **Emissions impact of port activities on air quality and public health: Evidence and implications for environmental justice**
[Yeonkyeong Park](#)
Cornell University, USA

Regular Session: RS16.2 - Tourism

17:30 - 18:45 Wednesday, 26th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/89003478979>

Chair Leila Kebir

- 14 **Do mobile devices renew urban tourism practices? The case of the Champs Elysees in Paris**
[Leila Kebir¹](#), [Marie Delaplace²](#)
¹University of Lausanne, Switzerland. ²University Paris Est, Lab'Urba, France
- 147 **Spatial mobility and cruise passengers' expenditure: an investigation using GPS technology**
[Mauro Ferrante¹](#), [Caterina Sciortino²](#), [Stefano De Cantis²](#), [Szilvia Gyimóthy³](#)
¹Department of Culture and Society - University of Palermo, Italy. ²Department of Economics, Business and Statistics, University of Palermo, Italy. ³Department of Marketing, Copenhagen Business School, Denmark
- 349 **Covid-19 and the silence in the street: regional economic impacts of a Brazil without carnival**
[Cláudio Eurico Seibert Fernandes da Silva¹](#), [Thaís Diniz Oliveira²](#), [Rayan Wolf³](#), [Fernando Salgueiro Perobelli¹](#), [Victor Eduardo de Mello Valério⁴](#)
¹Federal University of Juiz de Fora, Brazil. ²Instituto I17, Brazil. ³Federal University of Viçosa, Brazil. ⁴Federal University of Itajubá, Brazil

393 Rural development and rural tourism: evidence from Madeira

[António Almeida](#), [Luiz Machado](#)

Faculty of Social Sciences-University of Madeira, Portugal

Regular Session: RS18.4 - Resilience and Risk Management

17:30 - 18:45 Wednesday, 26th May, 2021

Room Agadir

<https://us02web.zoom.us/j/83755733224>

Chair Abdellatif Khattabi

20 Analysis of droughts and their impacts on the natural and socio-economic environments of the rural community of El Faid

[Abdellatif Khattabi](#), [Mohamed Koudsi](#)

Ecole Nationale Forestière d'Ingénieurs, Morocco

297 A Probabilistic Assessment of Economic Impacts Caused by Earthquakes by Using Seismic Risk Models and Spatial CGE Modeling

[José Antonio León Torres¹](#), [Mario Ordaz¹](#), [Eduardo Haddad²](#), [Inácio Araújo²](#)

¹Institute of Engineering, National Autonomous University of Mexico, Mexico. ²Department of Economics, University of Sao Paulo, Brazil

284 Health Interventions in a Poor Region and Resilience in the Presence of a Pandemic

[Amit Batabyal¹](#), [Hamid Beladi²](#)

¹Rochester Institute of Technology, USA. ²University of Texas at San Antonio, USA

495 The Persistent Effects of Natural Disasters on Opioid Deaths

[Meri Davlasheridze¹](#), [Stephan Goetz²](#)

¹Texas A&M University at Galveston, USA. ²The Pennsylvania State University, USA

Regular Session: RS10.6 - Regional development

17:30 - 18:45 Wednesday, 26th May, 2021

Room Fes

<https://us02web.zoom.us/j/81342024716>

Chair Monica Cardozo

161 Trade reform, sectoral spillovers, and poverty reduction: Evidence for Guinea-Bissau

[Júlio Vicente Cateia¹](#), [Maurício Vaz Lobo Bittencourt²](#), [Terciane Sabadini Carvalho²](#)

¹Université Laval, Canada. ²Universidade Federal do Paraná, Brazil

314 Services Value Added in Exports: A Comparative Analysis between Brazil and the United Kingdom from 2000 to 2014

[Joyce Silva](#), [Fernando Perobelli](#)

Universidade Federal de Juiz de Fora, Brazil

316 Services international trade and economic development: 2004 to 2014

[Joyce Silva](#), [Fernando Perobelli](#)

Universidade Federal de Juiz de Fora, Brazil

404 Trade with China: trade basket and economic growth in Latin America

[Márcia Jucá Teixeira Diniz](#)¹, [Monica Liseth Cardozo](#)², [Julio César Arteaga](#)³

¹Federal University of Pará, Applied Social Science Institute, Brazil. ²Universidad de Monterrey, Mexico.

³Universidad Autónoma de Nuevo León, Facultad de Economía, Mexico

Special Session: SS01 - Alternatives for integrating development with infrastructure provision in the global South

17:30 - 18:45 Wednesday, 26th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/84114610826>

Chair Manisha Jain

324 Competition for Illicit Payments on Road Networks of West Africa 1988-2016

[Glenn Rogers](#)

Independent Advisor, France

99 Regional Development Implications of Improved Central to South Asia Transport Development: Summary of Recent Analysis by the World Bank

[Nathan Hutson](#)

University of North Texas, USA

248 Integrating spatial development with infrastructure provision: A conceptual framework and its application to India

[Manisha Jain](#)¹, [Artem Korzhenevych](#)¹, [Jörg Knieling](#)²

¹Leibniz Institute of Ecological Urban and Regional Development, Germany. ²HafenCity University, Germany

247 Rural to urban transformation in India as census towns: Rural-urban dichotomy revisited

[Manisha Jain](#)¹, [Artem Korzhenevych](#)¹, [Jörg Knieling](#)²

¹Leibniz Institute of Ecological Urban and Regional Development, Germany. ²HafenCity University, Germany

Special Session: SS38.1 - Resilience and peripheral areas: development patterns and policies in the borderlines

17:30 - 18:45 Wednesday, 26th May, 2021

Room Lagouira

<https://us02web.zoom.us/j/88689482335>

Chair Gabriela Carmen Pascariu

200 Innovation-disrupted spatial equilibrium: Insights from the Israeli experience

[Raphael Bar-El](#)^{1,2}, [Liran Maymoni](#)^{1,2}

¹Ben-Gurion University, Israel. ²Sapir Academic College, Israel

369 Resilience, Development Regions and Local Revenue Collection Levels in Romania

[Octavian Moldovan](#), [Bogdana Neamtu](#)

Department of Public Administration and Management, Faculty of Political, Administrative and Communication Sciences, "Babeş-Bolyai University", Cluj-Napoca, Romania

424 The relevance of smart cities in assessing urban labor market resilience. A post-transition economy specificity

Dan Lupu, Liviu Geroge Maha, Daniela Elena Viorica

Alexandru Ioan Cuza University of Iasi, Romania

Wednesday, 26 May 2021

Special Academic Session (SAS)

08:55 -18:15 (CET), Wednesday, May 26, 2021

Do we need new data, models and planning for the post-pandemic city?

Room: Dakhla

<https://us02web.zoom.us/j/88500705804>

Organizers: Peter Batey, Guney Celbis, Kingsley Haynes, Karima Kourtit, Peter Nijkamp And Neil Reid

The Regional Science Academy



Aim & Scope

The past decade saw the emergence of connected intelligent infrastructures used for facing growing urbanization challenges. These networks of integrated computerized systems began collecting and transmitting urban data in real time, leading to automated and/or supervised interventions aimed to facilitate the lives of the individuals in cities. As part of the general concept of a “Smart City,” real-time data management and analysis has been used to streamline the distribution of energy, waste management, management of traffic congestion, and environmental protection among many other examples. One major purpose of the fast and efficient collection and analysis of city data is to anticipate urban challenges and intervene preemptively.

As the world was just entering a new stage characterized by urban communication networks powered by the Internet of Things infrastructures, the Covid-19 pandemic broke out. Monitoring population density to assess transmission risks and the place-based management of health services based on spatial information on COVID-19 cases have emerged as essential policy-relevant measures. The collection and rapid analysis of data related to the spatial accessibility to health services became an essential task for organizing the effective allocation of healthcare resources. Retuning intelligent transportation systems and developing heat maps identifying hotspots of are already recognized as imperative. This being said, privacy concerns and accessibility to data are vibrant discussion topics alongside with the technical aspects of the collection and processing of information.

What will be the aspects of the new types of data that we need with regards to the new urban life characterized by the pandemic? How will the lasting effects of the pandemic on urban life be represented and tracked digitally? How will this new data be translated into planning the post-pandemic city? This TRSA session will initiate a scientific discussion on how urban data will shape our lives after the pandemic.

08:55 - 09:00 | Welcome

Peter Batey, President, *The Regional Science Academy* (TRSA)

The Regional Science Academy (TRSA) Lecture Series: “The Voice of Regional Science”

09:00-10:30 | SIGNATURES OF REGIONAL SCIENCE I

Chair: Jaewon Lim

- 1) **The contribution of behavioral economics to post pandemic regional science**
Daniel Czamanski
- 2) **Data issues during COVID-19 in developing countries**
Budy Resosudarmo
- 3) **Microsimulation for mobility patterns based on digital twins in the context of a pandemic**
Henk Scholten

10:30-11:00 | Break

11:00-13:00 | SIGNATURES OF REGIONAL SCIENCE II

Chair: John Carruthers

- 4) **Integration of economics with epidemics using the spatial structure**
[Tomaz Dentinho](#)
- 5) **Do we need new data, models and planning for the post-pandemic city?**
[Hans Westlund](#)
- 6) **The contribution of digital technology to the resilience of cities and territories in Morocco in the face of COVID-19**
[Abdelaziz Adidi](#)
- 7) **More timely, more granular - progress and bottlenecks in measurement**
[Alexander Lembcke](#)

13:00-14:00 | Break

14:00-15:30 | SIGNATURES OF REGIONAL SCIENCE III

Chair: Geoffrey Hewings

- 8) **Collaboration between beekeepers in rural areas and farmers in the surrounding of urban area in southern Morocco during the COVID-19 pandemic**
[Mostafa Lamrani Alaoui](#)
- 9) **Pandemic Recovery Index, commercial real estate markets under conditions of persistent work-from-home arrangements**
[Terry Clower](#)
- 10) **The city after Covid-19: a discussion of some research needs**
[Amit Batabyal](#)

15:30-16:00 | Break

16:00-17:30 | SIGNATURES OF REGIONAL SCIENCE IV

Chair: Peter Nijkamp, Vice-President of TRSA

Great Minds in Regional Science

[Denise Pumain](#) on Wolfgang Weidlich and his scholarship.

[Roberto Camagni](#) on Adam Smith and his scholarship.

17:30-18:15 | SIGNATURES OF REGIONAL SCIENCE V

Chair: Laurie Schintler

- 11) **Spatial transmission of the economic impacts of COVID-19 through international trade**
[Adam Rose](#)
- 12) **Citizen Science for smart cities: a post-corona perspective 'Should I Stay or Should I Go?'**
[Saskia Sassen](#) and [Karima Kourtiti](#)

Thursday, 27 May 2021

PARALLEL SESSIONS (11)

National Session: SS52 - Regional Science in Lebanon



09:30 - 10:45 Thursday, 27th May, 2021

Room FIPE

<https://us02web.zoom.us/j/85253483318>

Chair Nadim Farajalla

506 Clusters of Cultural and Creative Industries: Empirical Evidence for Catalonia

[Lina Maddah¹](#), [Josep-Maria Arauzo-Carod¹](#), [Fernando LÓpez Hernández²](#)

¹Universitat Rovira i Virgili, Spain. ²Universidad Politécnica de Cartagena, Spain

513 Mapping and Assessing Water Resources Related Interactions in the Bekaa, Lebanon

[Rana El Hajj](#), [Jasmine El Kareh](#), [Nadim Farajalla](#), [Abed Halim Hajj Chehadeh](#)

Issam Fares Institute for Public Policy and International Affairs at the American University of Beirut, Lebanon

519 Impact of Climate Change on Rural Livelihoods in Lebanon

[Leva Zgheib](#), [Nadim Farajalla](#), [Mira Zaghbour](#), [Karim Korban](#)

Issam Fares Institute for Public Policy and International Affairs, Lebanon

520 Climate change vulnerability assessments: the case of Batroun and Tyre

[Celine El Khoury](#), [Rana El Hajj](#), [Nadim Farajalla](#)

Issam Fares Institute for Public Policy and International Affairs - American University of Beirut, Lebanon

National Session: SS51.3 - Sustainable Regional Development in China



09:30 - 10:45 Thursday, 27th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/83942885151>

Chair Lily Kiminami

534 Do Houses of Worship Affect Housing Prices in China? A comparative Study on Two Representative Cities

[Lili Ta](#)

School of Government, Yunnan University, China

- 535 Digital Economy and Regional Industrial Upgrade: Evidence from the Yangtze River Delta**
[Jie Huang¹](#), [Jianjun Chen¹](#), [Yinxin Shen²](#), [Ying Zhou¹](#)
¹School of Public Affairs, Zhejiang University, China. ²School of Economics, Zhejiang University, China
- 536 The Deconstruction and Evolution Trend Forecast of Industrial Carbon Footprint Network in China**
[Yuan Yuan](#), [Xintong Sun](#)
Northwestern Polytechnical University, China
- 537 Urban built environment quality and economic development: An examination with big data on 50 Chinese cities**
[Lun Liu¹](#), [Hui Wang²](#)
¹Peking University, China. ²Tsinghua University, China

Regular Session: RS02.6 - Infrastructure, transportation and accessibility

09:30 - 10:45 Thursday, 27th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/87555502007>

Chair Hideki Fukui

- 16 Managing Multiple Airport Regions via Perimeter Rules: An Empirical Analysis**
[Hideki Fukui](#)
Ehime University, Japan
- 186 Measuring Transit-Oriented Development Degree Based on the Railway Transit Network Performance Considering Population and Facility Distribution**
[Lan Yang¹](#), [Sunyong Eom²](#), [Tsutomu Suzuki³](#)
¹Department of Risk Engineering, Graduate School of Systems and Information Engineering, University of Tsukuba, Japan. ²Center for Spatial Information Science, the University of Tokyo, Japan. ³Division of Policy and Planning Sciences, Faculty of Engineering, Information and Systems, University of Tsukuba, Japan
- 255 Measuring the Evolution of Regional Value Chains in Northeast Asia Using a Cross-Border Interregional Input-Output Model**
[Min Jiang](#), [Euijune Kim](#)
Seoul National University, Korea, Republic of
- 390 School Integration and Education Outcomes in Indonesia: Global Information System, Micro Simulation and CGE Analysis**
[Bondi Arifin¹](#), [Anda Nugroho¹](#), [Eko Wicaksono¹](#), [Abdul Aziz¹](#), [Tri Wibowo¹](#), [Akhmad Yasin²](#), [Praptono Djuned¹](#)
¹Ministry of Finance Republic of Indonesia, Indonesia. ²Ministry of Finance Republic of Indonesia, Iran, Islamic Republic of

Regular Session: RS20 - Biodiversity, ecosystems and ecosystem services

09:30 - 10:45 Thursday, 27th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/81262412877>

Chair Stefania Tonin

- 97 **Effect of land use and vegetation cover on the organic carbon stock in the mountains of the Moroccan High Atlas**
[Modeste Meliho](#)¹, [Abdellatif Khattabi](#)², [Mohamed Boullmane](#)³, [Nadia Mhammdi](#)¹
¹Université Mohammed V, Morocco. ²Ecole Nationale Forestière d'Ingénieurs, Morocco. ³Conseil régional Béni Mellal Khénifra, Morocco
- 98 **Assessment and valuation of ecosystem services at a watershed level- the case of Beht in the middle atlas of Morocco**
[Ismaili Hassana](#)¹, [Abdellatif Khattabi](#)²
¹Faculté De Science IBN Tofail-Kenitra, Morocco. ²Ecole Nationale Forestière d'Ingénieurs, Morocco
- 136 **Valuing marine biodiversity and ecosystem services: A contingent valuation study in Italy**
[Stefania Tonin](#)
Università Iuav di Venezia, Italy
- 188 **Practical valuation of ecosystem services for local stakeholders: economic valuation considering local explicit data**
[Takashi Hayashi](#), [Daisuke Kunii](#)
Policy Research Institute, Ministry of Agriculture, Forestry and Fisheries, Japan
- 462 **Rainforest Conservation policy assessment: The case of the Atlantic Forest in Brazil**
[Keyi Ussami](#), [Ariaster Chimeli](#)
University of Sao Paulo, Brazil

Regular Session: RS18.3- Resilience and Risk Management

09:30 - 10:45 Thursday, 27th May, 2021

Room Agadir

<https://us02web.zoom.us/j/84441830561>

Chair Euijune Kim

- 144 **Assessing Disaster Risk by Integrating Natural and Socio-Economic Dimensions: A Decision-Support Tool**
[Marco Modica](#)¹, [Giovanni Marin](#)², [Susanna Paleari](#)³, [Roberto Zoboli](#)⁴
¹GSSI, Italy. ²University of Urbino, Italy. ³IRCrES - CNR, Italy. ⁴Catholic University of Milan, Italy
- 150 **An Economic Assessment of Resilience after a Large-scale Tsunami in Japan**
[Hiroyuki Shibusawa](#), [Daiichi Matsushima](#)
Toyohashi University of Technology, Japan
- 355 **Spatial Distancing, Spatial Interaction and Regional Economic Damages**
[Euijune Kim](#), [Hojune Lee](#), [Min Jiang](#), [Seulki Kim](#), [Dongyeong Jin](#)
Seoul National University, Korea, Republic of

Regular Session: RS10.7 - Regional development

09:30 - 10:45 Thursday, 27th May, 2021

Room Fes

<https://us02web.zoom.us/j/82231138454>

Chair Hidekatsu Asada

- 78 **Myanmar's Manufacturing Exports after the Lifting of Economics Sanctions**
[Hiroyuki Taguchi](#), [Soe Thet Mon](#)
Saitama University, Japan
- 79 **Vietnam's Challenge to Boosting Labour Productivity**
[Hidekatsu Asada](#)
Saitama University, Japan
- 142 **Local Government Expenditure and Socio-Economic Development: A Case Study of the Provinces in the Philippines**
[Arianne Dumayas](#)
Faculty of Global Management-Chuo University, Japan

Special Session: SS18.5 - Urban Future in the Global South

09:30 - 10:45 Thursday, 27th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/89993853386>

Chair Abdul Shaban

- 360 **Space, Face, and Netnography: The Visibility of Everyday Violence in Urban Spaces faced by the Pan-Northeastern Community in Bangalore**
[Anisha Debbarmann](#)
Tata Institute of Social Sciences, India
- 375 **Urban Poverty and Vulnerability in Global South: Issues of Underestimation, Concentration and Targeting**
[Anita Rath](#)
Tata Institute of Social Sciences, India
- 398 **Jaipur: An emerging entrepreneurial metropolitan region of the Global South**
[Philippe Cadene](#)¹, [Abdul Shaban](#)²
¹University of Paris – UMR CESSMA, France. ²Tata Institute of Social Sciences, Mumbai, India
- 448 **Urbanization, planning and scope of collaborative governance: A Case study of Delhi Metropolitan Region**
[Ujjwal Dadhich](#)
Tata Institute of Social Sciences, India
-

Interval

10:45 - 11:00 Thursday, 27th May, 2021

PARALLEL SESSIONS (12)

National Session: SS22 - Regional Disparities in the EU and Hungary in the Age of Digitalization and the Pandemics



11:00 - 12:15 Thursday, 27th May, 2021

Room FIPE

<https://us02web.zoom.us/j/85253483318>

Chair Zoltán Gál

- 156 **Does Foreign Investment Generate Regional Economic Growth in Emerging Countries and their regions? Case of Central & Eastern Europe and Hungary**
[Zoltán Gál](#)^{1,2}, [András Gyimesi](#)²
¹Centre for Economic & Regional Studies, Hungary. ²University of Pécs, Hungary
- 224 **Urban strategic planning from the perspective of well-being: Evaluation of the Hungarian practice**
[Zoltán Bajmócy](#), [Judit Gébert](#), [György Málovics](#), [Boglárka Méreiné Berki](#), [Judit Juhász](#)
University of Szeged, Hungary
- 230 **Smart Communities in the Countryside: What Comes After Proof of Concept?**
[Viktória Iózsá](#)¹, [Pál Szabó](#)², [Ákos Jakobi](#)²
¹Nord Consult Kft., Hungary. ²Eötvös Loránd University, Department of Regional Studies, Hungary
- 232 **Immunizing workers in the pandemic? Lessons from supply chains, telework and commuting**
[Sándor Juhász](#)¹, [Eszter Bokányi](#)¹, [Zoltán Elekes](#)^{2,3}, [László Czaller](#)^{2,4}, [Gergő Tóth](#)^{5,2}, [András Borsos](#)^{6,7}, [Tünde Szabó](#)⁸, [Márton Karsai](#)^{7,9}, [Balázs Lengyel](#)^{2,1}
¹Budapest Corvinus University, Hungary. ²ELKH Centre for Economic and Regional Studies, Hungary. ³Umea University, Sweden. ⁴ELTE University, Hungary. ⁵University College Dublin, Ireland. ⁶Central Bank of Hungary, Hungary. ⁷Central European University, Austria. ⁸ELKH CSF, Hungary. ⁹ELKH Rényi Research Centre, Hungary

National Session: SS53 - Regional Science in Egypt



11:00 - 12:15 Thursday, 27th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/83942885151>

Chair Michael L. Lahr

- 501 **Heavy metal and bacteria removal from River Nile, Egypt by carbon nanotube filters that enhancing the marine conditions for fresh water bivalves**

[Emad Elsehly](#)¹, [Aml Ghonim](#)²

¹Faculty of Science, Physics department, Damanhour University, Egypt. ²Faculty of Science, Zoology department, Damanhour University, Egypt

- 502 **Spatial Variability of Land Use Types in Relation To Soil Moisture and Climatic variables over Egypt**

[Megahed Hassan](#)

Zagazig University, Egypt

- 503 **Government Spending and Regional Poverty Alleviation: Evidence from Egypt.**

[Dina Elshahawany](#), [Ramy Elazhary](#)

Faculty of Commerce, Zagazig University, Egypt

- 507 **Egypt's National Road Project: Assessing the Economic Impacts of Upgraded Transportation Network**

[Dina Elshahawany](#)¹, [Eduardo Haddad](#)², [Michael Lahr](#)³

¹Faculty of Commerce, Zagazig University, Egypt. ²University of Sao Paulo, Brazil. ³Rutgers, the State University of New Jersey, USA

Regular Session: RS02.5 - Infrastructure, transportation and accessibility

11:00 - 12:15 Thursday, 27th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/87555502007>

Chair Rosella Nicolini

- 134 **Approximating the impact of the congestion effect on users' attitude toward the public bus transport system: the case of Barcelona**

[Miquel-Àngel Garcia-López](#)^{1,2}, [Rosella Nicolini](#)¹, [José Luis Roig Sabaté](#)¹

¹UAB, Spain. ²IEB -UB, Spain

- 145 **Is there a Light at the End of the Eurotunnel? If not for the Investors than for the Regions?**

[Johannes Lohwasser](#), [Axel Schaffer](#), [Andreas Schüller](#)

Bundeswehr University Munich, Germany

- 233 Linking sustainable urban mobility and sedentary lifestyles in the digital age**
[Aritz Balerdi Blanco](#), [Patxi Ojanguren Asolo](#), [Eguzkiñe Elorduy Cortina](#)
University of the Basque Country UPV/EHU, Spain
- 456 Spatial Justice (Inequality and Inequity) in the Provision of Primary Schools – The Case of Portugal**
[João Lourenço Marques](#), [Jan Wolf](#), [Fillipe Feitosa](#)
University of Aveiro, Portugal

Regular Session: RS15.3 - Theoretical and empirical urban economics

11:00 - 12:15 Thursday, 27th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/81262412877>

Chair Katarzyna Kopczewska

- 204 Natural spatial pattern—when mutual socio-geo distances between cities follow Benford's law**
[Katarzyna Kopczewska](#), [Tomasz Kopczewski](#)
University of Warsaw, Poland
- 340 Equal opportunities to access the university in Chile? An application with a spatial Heckman probit model**
[Juan Luis Quiroz](#)¹, [Ludo Peeters](#)², [Coro Chasco](#)¹
¹Facultad de Ciencias Económicas y Empresariales, Universidad Autónoma de Madrid, Spain. ²Hasselt University, Belgium
- 381 Related Variety: A Meta-analysis**
[Jeroen Content](#)¹, [Martijn Smit](#)²
¹Netherlands Environmental Assessment Agency (PBL), Netherlands. ²Utrecht University, Netherlands

Regular Session: RS06.3 - Methods in Regional Science and Urban Economics

11:00 - 12:15 Thursday, 27th May, 2021

Room Agadir

<https://us02web.zoom.us/j/84441830561>

Chair Patrick Lehnert

- 66 New Emerging Population and Settlement Patterns: The Case of Slovakia**
[Martin Maris](#)
Slovak University of Agriculture, Slovakia
- 222 Proxying Economic Activity with Daytime Satellite Imagery: Filling Data Gaps across Time and Space**
[Patrick Lehnert](#), [Michael Niederberger](#), [Uschi Backes-Gellner](#)
University of Zurich, Switzerland
- 261 Does China's business matter to South America?**
[Fernando Perobelli](#)¹, [Vinicius Vale](#)², [Guilherme Salgueiro](#)¹
¹Federal University of Juiz de Fora, Brazil. ²Federal University of Paraná, Brazil

382 Improving Vaccination Rate through Community Awareness

Bondi Arifin, Eko Wicaksono, Taufan Pamungkas Kurnianto, Nugraheni Kusumaningsih, Tri Achya Ngasuko

Ministry of Finance, Indonesia

Regular Session: RS09.4 - Regional and urban policy

11:00 - 12:15 Thursday, 27th May, 2021

Room Fes

<https://us02web.zoom.us/j/82231138454>

Chair Patricia Ikouta Mazza

374 The role of shared workspaces as an anchor of community resilience for low-income urban populations

Dalit Harel, Sigal Kaplan

The Hebrew University of Jerusalem, Israel

455 On Smart Institutions: Towards New Territorial Actors to Support Ecological Transition and Regional Diversification

Alberto Brugnoli

University of Bergamo, Italy

544 Digital Regions: A Different European Regional Space Structure

Patricia Ikouta Mazza, Maria Mavri

University of the Aegean, Greece

Special Session: SS18.6 - Urban Future in the Global South

11:00 - 12:15 Thursday, 27th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/89993853386>

Chair Abdul Shaban

401 Informal Entrepreneurism in the Global South Cities: Case Study of Street Vendors in Mumbai

Ms.Meghamrita Chakraborty

Doctoral student, Tata Institute of Social Sciences, Mumbai, India, India

408 Sustaining the Creativity and Innovation: Chikankari Industry of Lucknow

Rinku Prasad

Doctoral Student, School of Development Studies Tata Institute of Social Sciences, Deonar, Mumbai, India

414 Democratic Participation in Negotiating Urban Public Space in India: Coexistence of Collectivism and Individualism among Street Vendors

Debdulal Saha

Indian Institute of Science Education and Research (IISER), Mohali, India

273 Blue-ing Children's Space: The Promise of Blue Urbanism to making Child-friendly Cities in the Southeast Asia

Aireen Grace Andal

Ural Federal University, Russian Federation



LUNCH BREAK

12:15 - 13:15 Thursday, 27th May, 2021

PARALLEL SESSIONS (13)

National Session: SS60 - Greek Regional Science



13:15 - 14:30 Thursday, 27th May, 2021

Room FIPE

<https://us02web.zoom.us/j/85253483318>

Chair Yannis Psycharis

- 246 **Creating and Strengthening Comparative Advantage: The Region of Thessaly – University of Thessaly Cooperation Nexus**
[Maria Adamakou](#), [Dimitris Kallioras](#), [Spyros Niavis](#), [George Petrakos](#)
University of Thessaly, Greece
- 558 **Tracing the changing pattern of location and agglomeration of manufacturing enterprises in Greece: an application of point pattern analysis**
[Yannis Psycharis](#), [Anastasios Karaganis](#), [Leonidas Doukissas](#)
Panteion University, Regional Development Institute, Greece
- 560 **Economic crisis and resilience at local level in Greece**
[Panagiotis Artelaris](#)¹, [Dimitris Kallioras](#)², [Anastassis Katsinis](#)³
¹Harokopio University of Athens, Greece. ²University of Thessaly, Greece. ³Joint Research Centre (JRC), Italy
- 559 **Exploring polarization and social segregation trends in Greek metropolitan areas: the case of Athens**
[Yannis Psycharis](#), [Anastasia Panori](#), [Panayotis Pantazis](#)
Panteion University, Regional Development Institute, Greece

Special Session: SS38.2 - Resilience and peripheral areas: development patterns and policies in the borderlines

13:15 - 14:30 Thursday, 27th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/83942885151>

Chair Gabriela Carmen Pascariu

- 239 **Discontent in the “peripheries”: An investigation of the rise of populism in Italy**
[Giulia Urso](#), [Alessandra Faggian](#), [Alessandro Palma](#)
Gran Sasso Science Institute, Italy
- 427 **The relevance of European funding in building regional economic resilience**
[Liviu-George Maha](#), [Elena-Daniela Viorica](#), [Diana-Elena Abalasei](#), [Lucia Ciubotaru](#)
Alexandru Ioan Cuza University of Iasi, Romania
- 468 **Can cities from peripheral regions become both resilient and sustainable?**
[Alexandru Banica](#)^{1,2}, [Karima Kourtiti](#)³, [Peter Nijkamp](#)³, [Corodescu-Rosca](#)¹
¹Alexandru Ioan Cuza University of Iasi, Romania. ²Romanian Academy, Iasi Branch, Romania. ³Open University, Heerlen, Netherlands
- 453 **Building resilience beyond the EU’s eastern borders. EU actorness and societal perceptions in Ukraine and Republic of Moldova**
[Gabriela Carmen Pascariu](#)¹, [Loredana Maria Simionov](#)¹, [Nadia Bureiko](#)^{2,3}
¹Alexandru Ioan Cuza University of Iasi, Romania, Romania. ²Foreign Policy Council ‘Ukrainian Prism’, Ukraine. ³University of St Gallen, Switzerland

Regular Session: RS03.3 - Knowledge and innovation

13:15 - 14:30 Thursday, 27th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/87555502007>

Chair Sandro Montresor

- 64 **Sketches versus the new technology’s innovation in the creative process**
[Ana Moreira da Silva](#)
CIAUD, Portugal
- 132 **Migration and Innovation: measuring the effect of skill-specific flows on patents, trademarks and designs across Italian provinces**
[Adriana C. Pinate](#)¹, [Alessandra Faggian](#)¹, [Claudio Di Berardino](#)², [Carolina Castaldi](#)³
¹Gran Sasso Science Institute, Italy. ²University of G. d’Annunzio, Italy. ³Utrecht University, Netherlands
- 279 **“With no siblings, but with home”: single patent-class inventions (SPIs) and regional technological diversification in Europe**
[Claudio Cozza](#)¹, [Iliaria Gandin](#)², [Sandro Montresor](#)³, [Alessandro Palma](#)³, [Gianluca Tarasconi](#)⁴
¹Department of Economic and Legal Studies – DISEG, University of Naples “Parthenope” (IT), Italy. ²University of Trieste, Italy. ³Gran Sasso Science Institute, L’Aquila (IT), Italy. ⁴ipQuants AG, Schaffhausen (CH), Switzerland
- 290 **Production efficiency of advanced technology-generating industries in the EU: stochastic frontier analysis of industry-level panel data**
[Giedre Dzemydaite](#)
Vilnius University, Lithuania

Special Session: SS17.1 - Data science, machine learning and big data for regional Sciences

13:15 - 14:30 Thursday, 27th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/81262412877>

Chair Jean-Claude Thill

- 22 **Predictive modelling of gully erosion in arid environment: case of the rural commune of El Faïd located in the south-Morocco**
[Ali Azedou](#), [Abdellatif Khattabi](#), [Said Lahssini](#), [Mohamed Sabir](#)
Ecole Nationale Forestière d'Ingénieurs, Morocco
- 23 **Machine Learning for Forest Stand Delineation using Yearly Landsat Time Series**
[Anass Legdou](#)¹, [Aouatif Amine](#)¹, [Said Lahssini](#)², [Hassan Chafik](#)³, [Mohamed Berrada](#)³
¹National School of Applied Sciences IBN Tofail University of Kenitra, Morocco. ²Ecole Nationale Forestière d'Ingénieurs, Morocco. ³National High School of Arts and Crafts, Meknes, Morocco
- 24 **Modeling Forest type transition of middle Atlas-Morocco associated to human activities**
[Anass Legdou](#)¹, [Aouatif Amine](#)¹, [Said Lahssini](#)², [Hassan Chafik](#)³, [Mohamed Berrada](#)³
¹National School of Applied Sciences IBN Tofail University of Kenitra, Morocco. ²Ecole Nationale Forestière d'Ingénieurs, Morocco. ³National High School of Arts and Crafts, Meknes, Morocco
- 37 **Cloud computing solution for monitoring protected area in Morocco**
[Said Lahssini](#)¹, [Said Moukrim](#)², [Hicham Alaoui](#)³, [Hicham Hajji](#)⁴, [Loubna El Mansouri](#)⁵
¹Ecole Nationale Forestière d'Ingénieurs, Morocco. ²Mohammed V University, Morocco. ³Climatic and forest risk management center, Morocco. ⁴IAV, Morocco. ⁵IAV H2, Morocco

Regular Session: RS21.3 - Agriculture, fisheries and food security

13:15 - 14:30 Thursday, 27th May, 2021

Room Agadir

<https://us02web.zoom.us/j/84441830561>

Chair Nugraheni Kusumaningsih

- 27 **Physiology of Merluccius merluccius in the North Atlantic of Morocco**
[Chaimae El Bouzidi](#)¹, [Mounir Hassani Zerrouk](#)², [Said Benchoucha](#)³, [Mohammed Bakkali](#)¹
¹Faculté des Sciences et Techniques de Tanger, Morocco. ²Multidisciplinary faculty of Larache, Morocco. ³Centre régional de l'INRH, Tanger, Morocco
- 96 **Contributing to the assessment of land use dynamics in national parks Ifrane and Tazekka**
[Imane Lafraoui](#)
National Forestry Engineering School, Morocco
- 541 **Can Phone Usage Improve Technical Efficiency of Rice farming? Evidence from Indonesia**
[Nugraheni Kusumaningsih](#)
Fiscal Policy Agency, Indonesia

Regular Session: RS11.2 - Rural development

13:15 - 14:30 Thursday, 27th May, 2021

Room Fes

<https://us02web.zoom.us/j/82231138454>

Chair Anna Mikhaylova

- 83 **Fair trade and rural development: assessment of preferences and potential participation of small producers in northern Morocco**
[Eddahmouny Hicham](#), [Elbroumi Soufiane](#)
FSJES FES, Morocco
- 84 **Retrospective analysis of rural development in Morocco**
[Nora Hammouda](#)¹, [Hicham Alaoui](#)²
¹Departement of agriculture, Morocco. ²Climatic and forest risk management center, Morocco
- 388 **Place-based and participative approaches: reflections for policy designs in rural development**
[Kim Pollermann](#), [Lynn-Livia Fynn](#)
Thünen Institute for Rural Studies, Germany
- 439 **Digital transformation of rural societies: the case of Kaliningrad region**
[Anna Mikhaylova](#)¹, [Andrey Mikhaylov](#)^{1,2}, [Dmitry Hvalev](#)¹
¹Immanuel Kant Baltic Federal University, Russian Federation. ²Institute of Geography, RAS, Russian Federation

Special Session: SS40.1 - The productivity gap and the re-launch of productivity in Europe

13:15 - 14:30 Thursday, 27th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/89993853386>

Chair Silvia Cerisola

- 253 **Aggregate Productivity growth from firm level data: the case of Vietnam and some methodological issues**
[Antonio Peyrache](#)¹, [Manh D. Pham](#)¹, [Hien Pham Thu](#)²
¹University of Queensland, Australia. ²CSIRO, Australia
- 236 **A balanced policy approach to regional growth: Productivity and resilience**
[Alexandra Tsvetkova](#), [Wessel Vermeulen](#)
OECD Spatial Productivity Lab, Italy
- 251 **The Changing Role of Long-run Drivers of Labor Productivity**
[Yoki Okawa](#)¹, [Alistair Dieppe](#)², [Atsushi Kawamoto](#)³, [Cedric Okou](#)¹, [Jonathan Temple](#)⁴
¹World Bank, USA. ²European Central Bank, Germany. ³Ministry of Finance, Japan. ⁴, United Kingdom

Interval

14:30 - 14:45 Thursday, 27th May, 2021

PLENARY SESSION IV

14:45 - 15:45 Thursday, 27th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/86122976972>

Keynote Speech



New Spatial Data, New Spatial Knowledge?

Prof. Isabelle Thomas

Université catholique de Louvain, Belgium

Chair **Sumana Bandyopadhyay**, University of Calcutta, India

Discussant **Dusan Paredes**, Universidad Catolica del Norte, Chile

Interval

15:45 - 16:00 Thursday, 27th May, 2021

PARALLEL SESSIONS (14)

National Session: SS54 - Regional Science in Paraguay



16:00 - 17:15 Thursday, 27th May, 2021

Room FIPE

<https://us02web.zoom.us/j/85253483318>

Chair Eduardo A. Haddad

- 515 Systemic Impacts of Climate Change in Paraguay from Business Agriculture**
Eduardo A. Haddad¹, [Gustavo H. L. Castro¹](#), [Évilly C. Bezerra²](#), [Plínio E. R. Alvarez³](#), [Hélder J. L. C. Marcelino⁴](#)
¹The University of São Paulo Regional and Urban Economics Lab - NEREUS, Brazil. ²The Federal University of Santa Maria, Brazil. ³The National University of Asunción, Paraguay. ⁴The Government of the Republic of Angola, Angola
- 516 Diversification in the Destinations of Paraguayan Exports: What can the Trade Complementarity (TC) Index Explain about It?**
[Plinio Esteban Ramirez Alvarez](#), [Victor Ramón Enciso Cano](#)
The National University of Asunción, Agricultural Science School, Paraguay
- 517 Productive Structure and Agricultural Sector of the Paraguay: An Input-Output Approach**
[Eduardo A. Haddad¹](#), [Plinio Esteban Ramirez Alvarez²](#), [Gustavo H. L. Castro¹](#), [Victor Ramón Enciso Cano²](#)
¹The University of São Paulo Regional and Urban Economics Lab - NEREUS, Brazil. ²The National University of Asunción, Agricultural Science School, Paraguay
- 532 Analysis of the Convergence of the Productivity of Soybean (Glycine max L.) In The Eastern Region of Paraguay. Period 2007 - 2018**
[Luz Mujica](#), [Angel Benitez](#), [Victor Enciso](#), [Jorge Gonzalez](#)
FCA-UNA, Paraguay

National Session: SS58.2 - Argentinean social and economic challenges

SAER

SOCIEDAD ARGENTINA DE
ECONOMÍA REGIONAL

16:00 - 17:15 Thursday, 27th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/83942885151>

Chair Pedro Luis Elozegui

- 550 How to measure the territorial economic impact of the COVID-19 pandemic in contexts with scarce regional data? A methodological proposal and application for Argentina (April-September 2020)**
[Andrés Niembro¹](#), [Carla Daniela Calá²](#)
¹Universidad Nacional de Río Negro, Argentina. ²Universidad Nacional de Mar del Plata, Argentina
- 552 Green exports in Argentina: trajectories and opportunities for diversification at the regional level**
[Andrea Estefanía Belmartino](#)
GSSI, Italy

554 Argentina's integration into global value chains: a sectoral and product analysis, and an attempt at regionalization

[Pedro Esteban Moncarz](#)^{1,2,3}, [Nestor Clever Grion](#)¹, [Ileana Raquel Jalile](#)¹

¹Universidad Nacional de Córdoba, Facultad de Ciencias Económicas, Argentina. ²Consejo Nacional de Investigaciones Científicas y Técnicas, Argentina. ³Centro de Investigaciones en Ciencias Económicas, CIECS (UNC-CONICET), Argentina

Regular Session: RS22 - Nexus: water, agriculture and energy

16:00 - 17:15 Thursday, 27th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/87555502007>

Chair Ana Serrano

285 A Game-Theoretic Model of Water Theft during a Drought

[Amit Batabyal](#)¹, [Hamid Beladi](#)²

¹Rochester Institute of Technology, USA. ²University of Texas at San Antonio, USA

370 Modelling and experimentation of olive cake thin-layer vacuum drying process

[Mohcine Ibn Maamar](#), [Mohamed Mazouzi](#), [Mohamed Lajdel](#)

ENSEM, Morocco

391 Patterns of Mediterranean agricultural water impacts in the context of the second globalization

[Ana Serrano](#)^{1,2}, [Rosa Duarte](#)^{1,2}, [Vicente Pinilla](#)^{1,2}

¹Universidad de Zaragoza, Spain. ²Instituto Agroalimentario de Aragón, Spain

Regular Session: RS19.2 - Green economy and complexity of socio-ecosystems

16:00 - 17:15 Thursday, 27th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/86592467076>

Chair Alessandro Crociata

42 Watermelons in winter? Assessing the carbon footprints of off-season produce

[Shriya Rangarajan](#)

Cornell University, USA

95 A normative perspective of rural-urban development

[Khouloud Turki](#)

SupAgro- Montpellier, France

184 Economic Valuation of Cultural Ecosystem Services: The Case of Landscape Aesthetics in the Agritourism Market

[Aliza Fleischer](#)^{1,1}, [Shachar Hatan](#)¹, [Anat Tchetchik](#)²

¹Hebrew University of Jerusalem, Israel. ²Bar Ilan University, Israel

387 Human capital and social capital as antecedent of the Green Deal. An analysis on waste separation across Italian provinces

[Alessandro Crociata](#)¹, [Chiara Burlina](#)¹, [Iacopo Odoardi](#)²

¹Gran Sasso Science Institute, Italy. ²University of Chieti-Pescara, Italy

Regular Session: RS08.2 - Real estate and housing

16:00 - 17:15 Thursday, 27th May, 2021

Room Agadir

<https://us02web.zoom.us/j/84441830561>

Chair Hojune Lee

- 301 Effect of Urban Railway Network Accessibility on Housing Prices**
[Hojune Lee](#), [Euijune Kim](#)
Seoul National University, Korea, Republic of
- 346 Impact of Demolitions on Neighboring Property Values: The Case of Detroit**
[Camila Alvayay Torrejon](#)¹, [Dusan Paredes](#)², [Mark Skidmore](#)¹
¹Michigan State University, USA. ²Universidad Catolica del Norte, Chile
- 450 The more inclusive, the less beneficial to the neighborhood? A quantitative analysis on inclusionary zoning in São Paulo, Brazil**
[Eliane Santos](#), [Ciro Biderman](#)
Getulio Vargas Foundation (FGV), Brazil
- 491 Policies for construction and real estate sector in Indonesia: does tax incentive matters?**
[Hadi Setiawan](#)
Fiscal Policy Agency, Ministry of Finance, Indonesia

Regular Session: RS12.5 - Spatial implications of climate and environmental change

16:00 - 17:15 Thursday, 27th May, 2021

Room Fes

<https://us02web.zoom.us/j/82231138454>

Chair Karina Simone Sass

- 210 Climate change, water resources and economic impacts: an analysis for the Brazilian hydrographic regions**
[Ademir Rocha](#), [Eduardo Haddad](#)
University of São Paulo (USP), Brazil
- 219 Identifying the atmospheric and economic key drivers of global air pollution change: a combined SDA approach**
[Sandy Dall'erba](#)¹, [Ran Xu](#)², [Nicole Riemer](#)¹, [Yilan Xu](#)¹, [Yao Yu](#)¹
¹UIUC, USA. ²Chinese Academy of Sciences, China
- 243 The Regional Economic Impacts of Climate Change on Family Farming and Large-Scale Agriculture in Brazil: A Computable General Equilibrium Approach**
[Tarik Tanure](#)¹, [Edson Domingues](#)², [Aline Magalhaes](#)²
¹Federal University of Paraná - UFPR, Brazil. ²Federal University of Minas Gerais - UFMG, Brazil
- 441 Economic impacts of droughts under future projections of climate change: a case study for São Paulo Metropolitan Area**
[Karina Simone Sass](#), [Eduardo Amaral Haddad](#)
University of São Paulo, Brazil

Special Session: SS40.2 - The productivity gap and the re-launch of productivity in Europe

16:00 - 17:15 Thursday, 27th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/89993853386>

Chair Roberta Capello

- 194 **Towards an interpretation of labour productivity growth: patterns of regional competitiveness in European regions**
[Roberto Camagni](#), [Roberta Capello](#), [Giovanni Perucca](#)
Politecnico di Milano, Italy
- 198 **Regional reindustrialization patterns and productivity growth in Europe**
[Roberta Capello](#), [Silvia Cerisola](#)
Politecnico di Milano, Italy
- 437 **When your client moves abroad: forced upgrading and subcontractors' performances in the manufacturing sector**
[Jacopo Canello](#), [Nicoletta Giudice](#)
University of Groningen, Netherlands

Interval

17:15 - 17:30 Thursday, 27th May, 2021

PARALLEL SESSIONS (15)

National Session: SS63 - Chilean Regional Science



17:30 - 18:45 Thursday, 27th May, 2021

Room FIPE

<https://us02web.zoom.us/j/85253483318>

Chair Yasna Cortés Garriga

- 168 **Public spending and economies of scale in partial fiscal decentralized governments: The case of Chile**
[Alicia Chavez](#), [Dusan Paredes](#)
Universidad Catolica del Norte (UCN), Chile

272 The effect of subway expansion on travel times in Santiago-Chile. Evidence from Uber Data Movement

[Ariel Arcos](#)¹, [Bernardo Lara](#)², [Dusan Paredes](#)¹

¹Universidad Catolica del Norte, Chile. ²Universidad de Talca, Chile

493 Cooperatives as an alternative to reduce the high territorial concentration of capital ownership in the Chilean case

[Juan Pedro Eberhard](#), [Patricio Aroca](#)

CEPR, Business School, Universidad Adolfo Ibáñez, Chile

National Session: SS61 - Brazil Regional Science



17:30 - 18:45 Thursday, 27th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/83942885151>

Chair Terciane Sabadini

173 Effects of wind energy input on the sectors of economic activity in the semiarid region of Bahia

[Carolina Ribeiro](#), [Gilca Oliveira](#)

Federal University of Bahia, Brazil

178 Easing the Effects of Austerity with Reforms: A Regional CGE Experiment on Brazilian Labor Productivity

[Guilherme Cardoso](#), [Thiago Simonato](#), [Débora Freire](#), [Edson Domingues](#)

Center for Development and Regional Planning (Cedeplar/UFMG), Brazil

431 Probability of Public Works Shutdown: Spatial Influences and the Impact of Counterparts Received from Fiscal Decentralization

[Joebson Maurilio](#)¹, [Jôao Eudes](#)², [Tatiane Menezes](#)¹, [Sebastião Lima](#)³

¹UFPE, Brazil. ²TCE-PE, Brazil. ³UFRPE, Brazil

452 Brazilian exports and income distribution: an input-output analysis for 2002-2014

[Mariana Catharin Velludo](#), [Vinicius de Almeida Vale](#), [Kenia Barreiro de Souza](#)

Federal University of Parana, Brazil

Regular Session: RS01.2 - Entrepreneurship

17:30 - 18:45 Thursday, 27th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/87555502007>

Chair Heather Stephens

137 Triggering the Integration of Minorities Residing in a Demographically Mixed Region into High-Tech Activities

[Ronen Harel](#)¹, [Dafna Schwartz](#)², [Dan Kaufmann](#)³

¹Peres Academic center, Israel. ²Interdisciplinary Center Herzliya, Israel. ³Sapir College, Israel

- 209 Industries, Occupations, and Entrepreneurship in Rural Regions**
Zachary Keeler, Heather Stephens
West Virginia University, USA
- 322 Are there Marshallian Industrial Districts in Portugal? Revisiting the Canello and Pavone Algorithm**
João Leitão, Joaquim Ferreira
University of Beira Interior, Portugal
- 421 Determinants of Entrepreneurial Behavior: Agricultural and Non-Agricultural Households in Indonesia**
Evi Noor Afifah, Vitriyani Tri Purwaningsih, Ririn Nopiah
Department of Economics, Universitas Gadjah Mada, Indonesia

Regular Session: RS07.3 - Migration and regional labor markets

17:30 - 18:45 Thursday, 27th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/86592467076>

Chair Raquel Simón Albert

- 252 Dynamic Impact of Remittances on Aggregate Demand in Sri Lanka**
Roshini Jayaweera
University of Kelaniya, Sri Lanka
- 265 Reassessing the penalty in commuting for immigrants: New evidence from Spain**
José Manuel Casado Díaz, Raquel Simón Albert, Hipólito Simón
University of Alicante, Spain
- 299 Spatialization of Migration in the Concept of Trans-localism**
Ahmet Türel, Sinan Mert Şener
Istanbul Technical University, Turkey
- 317 Cluster Analysis of Online Vacancies based on Attribute Associations**
Carlos Usabiaga¹, Fernando Núñez², Lukasz Arendt³, Ewa Gałęcka-Burdziak⁴, Robert Pater⁵
¹Pablo de Olavide University, Spain. ²University of Seville, Spain. ³University of Lodz, Poland. ⁴Warsaw School of Economics, Poland. ⁵University of Information Technology and Management (Rzeszow), Poland

Regular Session: RS17.1 - Globalization and territorial intelligence

17:30 - 18:45 Thursday, 27th May, 2021

Room Agadir

<https://us02web.zoom.us/j/84441830561>

Chair Rafael Garduño-Rivera

- 102 The geostrategic position of Romania from the perspective of energy resources**
[Alexandra Colcer](#)¹, [Mihail Paduraru](#)², [Irimuş Ioan Aurel](#)¹
¹Babeş Bolyai University, Faculty of Geography, Romania. ²University of Economic Studies Bucharest, Romania
- 158 The Effect of a Free Trade Agreement with the United States on Member Countries' per capita GDP: A Synthetic Control Analysis**
[Esteban Colla-de-Robertis](#), [Rafael Garduno-Rivera](#)
Universidad Panamericana, Mexico
- 378 Regional and global patterns of participation in value chains: evidence from Brazil**
[Inácio Fernandes de Araújo](#)¹, [Fernando Salgueiro Perobelli](#)², [Weslem Rodrigues Faria](#)²
¹University of São Paulo, Brazil. ²Federal University of Juiz de Fora, Brazil

Regular Session: RS11.3 - Rural development

17:30 - 18:45 Thursday, 27th May, 2021

Room Fes

<https://us02web.zoom.us/j/82231138454>

Chair Guilherme Asai

- 85 Rural development**
[Aida Rouahi](#)
Institut agronomique méditerranéenne de Montpellier (IAMM), Morocco
- 266 Capital Increase and Land Prices: An Essay among Brazil and United States of America**
[Guilherme Asai](#)
Independent researcher, Brazil
- 267 Impacts of Agricultural Cargo Transportation on the Brazilian Economy**
[Guilherme Asai](#)¹, [Carlos Alberto Piacenti](#)², [Angelo Costa Gurgel](#)³
¹Independent researcher, Brazil. ²Universidade Estadual do Oeste do Paraná, Brazil. ³Fundação Getulio Vargas, Brazil
- 385 Aspects of ethnic social capital in traditional communities of babassu coconut-breaking women in the legal Amazon: a study on socially oriented economic action**
[Alex Pizzio Silva](#)
Federal University of Tocantins, Brazil

Special Session: SS24 - Education inequality and Economic development: a regional perspective

17:30 - 18:45 Thursday, 27th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/89993853386>

Chair Amaghouss Jabrane

- 539 An Analysis of Supply- Side Inequalities in Education Sector in Sri Lanka**
[Ayesha Wickramanayaka](#), [N.P Dammika Padmakanthi](#)
University of Kelaniya, Sri Lanka

- 296 **Disparities and determinants of regional unemployment rate: empirical evidence from Morocco**
[Iabrane Amaghous](#), Aomar Ibourk
Department of Economics, FSJES, Cadi Ayyad University, Morocco
- 298 **A Spatial Analysis of education inequality determinants: the case of Morocco**
[Iabrane Amaghous](#)
Department of Economics, FSJES, Cadi Ayyad University, Morocco

Friday, 28 May 2021

PARALLEL SESSIONS (16)

SS42.1 - Regional Science from Down Under: perspectives from Aotearoa New Zealand



05:30 - 07:00 Friday, 28th May, 2021

Room Lagouira

<https://us02web.zoom.us/j/88511789571>

Chair Jacques Poot

- 306 **Geography matters for small advanced economies: The implications for an economic strategy**
[Paul Dalziel](#), [Caroline Saunders](#)
AERU, Lincoln University, New Zealand
- 195 **The effect of upzoning on house prices and redevelopment premiums in Auckland, New Zealand**
[Ryan Greenaway-McGrevy](#)¹, [Gail Pacheco](#)², [Kade Sorensen](#)¹
¹The University of Auckland, New Zealand. ²Auckland University of Technology, New Zealand
- 343 **The Connection of Rental and House Price Affordability Measures in New Zealand**
[Graham Squires](#)¹, [Hai Trinh](#)¹, [Don Webber](#)², [Arshad Javed](#)¹
¹Massey University, New Zealand. ²University of Sheffield, United Kingdom
- 275 **Vulnerable People, Local Labour Market Resilience and Global Shocks: New Zealand evidence from the Covid-19 pandemic and the Global Financial Crisis**
[William Cochrane](#)¹, [Jacques Poot](#)^{1,2}, [Matthew Roskrug](#)³
¹University of Waikato, New Zealand. ²Vrije Universiteit Amsterdam, Netherlands. ³Massey University, New Zealand

Interval

07:00 - 09:00 Friday, 28th May, 2021

SS42.2 - Regional and urban resilience in a turbulent world: perspectives from Aotearoa New Zealand



09:00 - 10:30 Friday, 28th May, 2021

Room Lagouira

<https://us02web.zoom.us/j/88511789571>

Chair Philip Morrison

- 259 **How do pandemics affect economic growth? Lessons from the 1968 H3N2 influenza and 2003 SARS**

[Ilan Noy](#)

Victoria University of Wellington, New Zealand

- 270 **The wellbeing impact of exogenous shocks. New Zealanders' reaction to Covid-19.**

[Philip Morrison](#)¹, [Stephanié Rossouw](#)², [Talita Greyling](#)³

¹Victoria University of Wellington, New Zealand. ²AUT, New Zealand. ³University of Johannesburg, South Africa

- 348 **The distributional implications of COVID-19 in Aotearoa New Zealand**

[Daniel Exeter](#), [Janine Paynter](#), [Vili Nosa](#), [Matire Harwood](#), [Chris Bullen](#)

The University of Auckland, New Zealand

- 274 **Regional patterns of wellbeing through pandemic lockdowns**

[Arthur Grimes](#)

Victoria University of Wellington, New Zealand. Motu Research, New Zealand

National Session: SS31 - Regional Economic Development in Asia



Indonesian Regional
Science Association

09:30 - 10:45 Friday, 28th May, 2021

Room FIPE

<https://us02web.zoom.us/j/83755472428>

Chair Budy Resosudarmo

- 125 How a pro-equity policy ended-up aggravating the unequal distribution of healthcare resources across Chinese regions**
Meng Yu
Beijing Dacheng Research Institute, China
- 126 The Solow Growth Model and Trade: The Latest Empirics for the World and ASEAN Economies**
Yuri Mansury¹, Jingwen Li²
¹Illinois Institute of Technology, USA. ²Cornell University, USA
- 180 Coordinated Development of Industrial Structure and Employment Structure: Evidence from Qinghai Province, China**
Ma Xiao
China University of Geosciences, China
- 276 Regional disparities and heterogeneous convergence in Indonesia: A multiscale geographically weighted regression approach**
Carlos Mendez
Nagoya University, Japan
- 561 Regional Public Infrastructures and Development on Decentralized Indonesia**
Benedictus Raksaka Mahi¹, Budy P. Resosudarmo²
¹Faculty of Economics and Business, University of Indonesia, Indonesia. ²Arndt-Corden Department of Economics, Australian National University, Australia

National Session: SS51.4 - Sustainable Regional Development in China



09:30 - 10:45 Friday, 28th May, 2021

Room NEREUS

<https://us02web.zoom.us/j/85127009544>

Chair Lily Kiminami

- 523 Can Carbon Emission Trading Market Integration Reshape Economic Geography of China?**
Ling Xue, Xiaolin Zhang, Tianjiao Zhang
Peking University, China
- 540 High-Speed Railway Reshapes China's Tourism Spatial Organization**
Jin Weng, Tian-shu Fang
Fudan University, China
- 542 Depicting the blurred regional boundaries in China using individual mobility data**
Hongmou Zhang¹, Liu Liu²
¹School of Government, Peking University, China. ²CitoryTech, China
- 545 Research on the Assessment of Cities' Adaptation to Climate Change and Its Relationship with Urbanization in China**
Xiaodong Pei^{1,2}, Jing Wu^{1,2}, Junbo Xue^{1,2}, Jincai Zhao³, Changxin Liu^{1,2}, Yuan Tian¹
¹Institutes of Science and Development, Chinese Academy of Sciences, China. ²School of Public Policy and Management, University of Chinese Academy of Sciences, China. ³School of Business, Henan Normal University, China

Regular Session: RS14.3 - The spatial dimension of sustainable development

09:30 - 10:45 Friday, 28th May, 2021

Room Casablanca

<https://us02web.zoom.us/j/83488693367>

Chair John Emmanuel Villanueva

- 389 **The efficiency of the Education Sector Budget: Evidence from Indonesia**
[Tri Wibowo](#), [Abdul Aziz](#), [Praptono Djunaedi](#)
Ministry of Finance, Indonesia
- 407 **The construction of a territorial (environmental) governance index for the Brazilian Amazon region**
[Marcelo Bentes Diniz](#), [Márcia Jucá Teixeira Diniz](#), [André Luiz Ferreira e Silva](#), [Ricardo Bruno Nascimento dos Santos](#)
Federal University of Pará, Applied Social Science Institute, Brazil
- 489 **Economic Valuation of Ecosystem Services Offered by the Cold Greenhouse in Huambo City**
[Luis Miápia](#)
Faculty of Agricultural Sciences, Angola
- 557 **Political dynasties and human development investments: Evidence of linkage from Rizal province, Philippines**
[John Emmanuel Villanueva](#)
University of the Philippines-Diliman, Philippines

Special Session PCNS - The COVID-19 Crisis Viewed from the South

09:30 - 10:45 Friday, 28th May, 2021

Room Marrakech

<https://us02web.zoom.us/j/82899500055>

Chair Eduardo A. Haddad



Preventing and Managing Debt Crises: The Role of Debt Transparency

[Rym Ayadi](#)

Founder and President, Euro-Mediterranean Economists Association (EMEA)

Health Capacities as a New Power Instrument

[Salma Daoudi](#)

Research Assistant in International Relations, Policy Center for the New South

Economic Policies in Deep Mutations: Perspectives from Africa

[Wilson Erumebor](#)

Senior Economist, Nigerian Economic Summit Group

Food Security and Policy in the Context of COVID-19: Policy Insights from Selected Countries

Isabelle Tsakok

Senior Fellow, Policy Center for the New South

Regular Session: RS09.5 - Regional and urban policy

09:30 - 10:45 Friday, 28th May, 2021

Room Agadir

<https://us02web.zoom.us/j/81254577425>

Chair Dan Zheng

- 76 **Economic development processes of Central and Eastern European cities**
[Szilard Racz](#)
Centre for Economic and Regional Studies, Hungary
- 77 **Innovative Activity over Space and Time - Spatiotemporal Modeling of Innovation Promoting Factors**
[Imke Rhoden](#)
Ruhr-Universität Bochum, Germany
- 177 **Do Agglomeration Economies Influence Environmental Regulatory Competition? The Case of China**
[Dan Zheng](#)
University of Chinese Academy of Sciences, China
- 402 **The Role of Supply and Demand on Children Education in Developing Country: Evidence from Indonesia**
[Eko Wicaksono](#), [Bondi Arifin](#), [Anda Nugroho](#), [Tri Wibowo](#), [Ahmad Yasin](#), [Abdul Aziz](#), [Praptono Djuned](#)
Fiscal Policy Agency - Ministry of Finance, Indonesia, Indonesia

Regular Session: RS10.9 - Regional development

09:30 - 10:45 Friday, 28th May, 2021

Room Fes

<https://us02web.zoom.us/j/86828580970>

Chair Juan Piedra-Peña

- 100 **The Role of Digital Technologies in Primary Healthcare of West Bengal, India: A Stride to Efficacy**
[Shatarupa Neogi](#)¹, [Subhra Chattopadhyay](#)²
¹Sarojini Naidu College for Women, India. ²Lady Brabourne College, India
- 138 **On the Dynamics of Patient Migration Flows: Is Efficiency Performance Explaining Inflows for Neighboring Hospitals? An Application to the Ecuadorian Healthcare System**
[Juan Piedra-Peña](#)
Universitat Autònoma de Barcelona, Spain
- 344 **Structural transformation, land use and agglomeration: sectoral impact GM soy introduction in Brazil**
[Jaime Carrion Fialkow](#)
VU Amsterdam, Netherlands

- 434 **Contestation and agency in subaltern spaces-the dichotomy of law and space in Dharavi slum, Mumbai**

[Paridhi Kedia](#)¹, [Pritam Dey](#)²

¹independent researcher, India. ²urban designer, India

Special Session: SS36 - Glocalization and Regional Development

09:30 - 10:45 Friday, 28th May, 2021

Room Essaouira

<https://us02web.zoom.us/j/89457821343>

Chair Hideki Fukui

- 68 **Glocalization of Natural Farming and Regional Development**

[Shinya Ishizaka](#)

Ehime University, Japan

- 70 **German Prisoners of War in Japan and the Regional Development during the First World War**

[Katsuhiko Kajiwara](#)

Ehime University, Japan

- 176 **Relationship between economic glocalization and the deposit-loan ratio of regional banks in Japan**

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GfR

Gesellschaft für
Regionalforschung

German speaking section of the
European Regional Science Association

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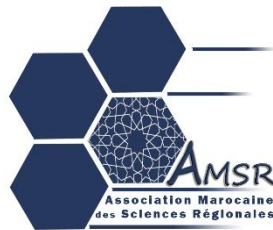
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¹Institute for Employment Research, Germany. ²Christian-Albrechts-Universität zu Kiel, Germany
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¹Institute for Employment Research (IAB), Germany. ²Thünen Institute of Rural Studies, Germany
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¹University of Applied Labour Studies, Germany. ²Institute for Employment Research IAB, Germany

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HRVATSKA SEKCIJA EUROPSKOG
UDRUŽENJA REGIONALNIH
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National Session: SS65 - Urban Neighborhoods: Accessibility, Segregation, and Neighborhood Change



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Interval

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PLENARY SESSION V

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Keynote Speech



Human capital migration, innovation and sustainability: some reflections on what we know and our future challenges

Prof. Alessandra Faggian

Gran Sasso Science Institute, Italy

Chair Eduardo A. Haddad, University of São Paulo, NEREUS, Brazil

Discussant Daniela L. Constantin, Bucharest University of Economic Studies, Romania

CLOSING CEREMONY

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Room Marrakech

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Final Speeches



Eduardo Haddad

President, Regional Science Association International



Abdellatif Khattabi

Chair, Local Organising Committee
President, Moroccan Regional Science Association



Andrea Caragliu

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