PROGRAM

13th WORLD CONGRESS OF THE RSAI

SMART REGIONS – Opportunities for sustainable development in the digital era
Welcome to the 13th RSAI Congress 25-28 May 2021

RSAI 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.
The RSAI World Congress is also a place of strong networking. In the next map, the intensity of coparticipation 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

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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](https://time.is/GMT+1).
## Overview Parallel Sessions

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Instructions to Chairs, Presenters, and Discussants

1. Sessions are 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.

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**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 Lenci 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 Lenci
- 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
  Amaghousj Jabranie 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 Caramella.
SS29 - Strengthening the resilience of socio-ecological systems
Sumana Bandyopadhyay, Lakshmi Sivamakrishnan, Tomas Ponce Dentinho and Said Lahsini

SS31 - Regional Economic Development in Asia
Yuri Mansury and Budy Resosudarmo

SS33 - Plastic pollution and its environmental impact
Abdellatif Khattabi and Diane Pruneau

SS36 - Globalization and Regional Development
Hideki Fukui and Shinya Ishizaka

SS38 - Resilience and peripheral areas: development patterns and policies in the borders
Karima Kourtit, Gabriela Carmen Pascariu, Ramona Tiganasu and Loredana Maria Simonov

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

SS48 - 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
Annekatrin 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

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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
ADVANCED BRAINSTORM CARREFOUR (ABC)

09:25 - 17:40 GMT+1, 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 Kourtit (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.

09:25 – 09:30 | Welcome

Peter Batey
President, The Regional Science Academy (TRSA)

09:30 - 11:00

Chair: Peter BATEY

1) Do Urban Empires Rule the World? An Introduction
Edward GLAESER, Karima KOURTIT and Peter NIJKAMP

2) Measuring the unmeasurable: The empirics of non-geographical proximity
Andrea CARAGLIU

3) A Scientific Program on Urban Performance and Dynamics
Roberto CAMAGNI, Roberta CAPELLO and Andrea CARAGLIU
11:00 - 11:30 | Break

11:30 - 13:00
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
   Luigi FUSCO GIRARD

13:00 - 13:30 | Break

13:30 - 15:00
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 Cities and Regions – Some Computational and Statistical Challenges
   Laurie SCHINTLER and Manfred FISCHER

15:00 - 15:30 | Break

15:30 - 17:30
Chair: Laurie SCHINTLER
10) The Public Expenditure Impact on Urban Population Growth
    Steven CRAIG and Janet KOHLHASE
    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

17:30 - 17:40 | 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 Kourtit, 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’s Spatial Accessibility to Primary Health Care Units
Diana F. Lopes¹, João L. Marques¹, Ana L. Ramos², Eduardo A. Castro¹
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 Denti¹,², Simona Iammarino¹
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

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
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
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Room Casablanca
https://us02web.zoom.us/j/88466279359
Chair Marina Van Geenhuizen

35 Young high-tech firms and market introduction of sustainable energy solutions
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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 Kiminami1, Lily Kiminami2, Shinichi Furuzawa2
1The University of Tokyo, Department of Agricultural and Resource Economics, Japan. 2Niigata University, Japan

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Grace Carolina Guevara-Rosero, Bernardo Alquinga, Marcela Guachamin
Department of Quantitative Economics, Escuela Politécnica Nacional, Ecuador

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Petra Kecskes
Széchenyi István University, Hungary

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Chair Evi Noor Afifah

139 Crime and Chinese aid projects in Ghana
Michael Appiah-Kubi
School of Economics, Xiamen University, China

418 Impact Evaluation of Vocational Training for People with Physical Disabilities on Employment Opportunities
Leni Marlina1, Evi Noor Afifah2
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
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Chair Lily Kiminami

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Lily Kiminami¹, Shinichi Furuzawa¹, Akira Kiminami²
¹Niigata University, Japan. ²The University of Tokyo, Japan

48 Effects of Inter-organizational Network on Social Enterprises: Analysis at Organizational Level in Japan
Shinichi Furuzawa¹, Lily Kiminami¹, Akira Kiminami²
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 Shigeno¹, Taisuke Matsuzaki¹, Yasushi Ueki², Masatsugu Tsuji³
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
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Chair Hicham Alaoui

31 Machine learning application to predict forest fires ignition risk in the Mediterranean region (North-West Morocco)
Hicham Alaoui¹, Assali Fouad¹, Hicham Hajji²
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
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**09:30 - 10:45 Tuesday, 25th May, 2021**

**Room Essaouira**

**https://us02web.zoom.us/j/88394645535**

Chair Abdul Shaban

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**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

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**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

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**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 Cerdat*³

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

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

*Oskar Lubiński*

University of Warsaw, Poland

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**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

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**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
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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 Tigau
Bucharest University of Economic Studies, Romania

263 The impact of COVID 19 Pandemic on HEIs – response strategies from Romanian universities
Romana Emilia Cramarenco, 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

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Room NEREUS
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Chair Alexander Pelyasov

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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 Pilyasov³**  
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

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  
**Sucyaho Dwi Husada, Evi Noor Affah**  
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  
**Wahyuningsyah Puspitasari¹,², Evi Noor Affah¹**  
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 Syahru Rachmawati¹, Evi Noor Affah²**  
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

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**  
¹Lund University, Sweden. ²University of California, Berkeley, USA. ³University of Hong Kong, China.
141  City augesens: when housing matters  
Carlos Marques¹², Cisbelia Cevadinha³  
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 Batista¹², João Marques¹³  
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 Hossain¹, Md. Khairul Islam¹, Md. Shamsuddin Sarker²  
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 Kebir¹, Frederic Wallet²  
¹University of Lausanne, Switzerland. ²INRA-UPS, Switzerland

185  Cultural and Creative Cities and regional economic efficiency: Context conditions as catalysters 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 Torre1,2, Amadou Niang1,2, Sébastien Bourdin3
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

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12:15 - 13:15 Tuesday, 25th May, 2021
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National Session: SS43 - Advances in Regional Science: Contributions of Italian Scholars

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

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Chair Andrea Salustri

152 Geospatial Technologies for Monitoring the Sustainable Development Goals
   Jozsef Benedek¹, Kinga Ivan¹, Ibolya Török², Arnold Temerdek², Iulian-Horia Holobâcă¹
   ¹Research Centre for Sustainable Development, Babes-Bolyai University, Romania. ²AROBS Transilvania Software, Romania
Measuring the environmental impact of traffic growth on different periurban zones of a middle-sized city
Tamás Hardi¹, Orsolya Farkas¹, Katalin Hegyiné Bolla¹,²
¹Centre for Economic and Regional Studies Institute for Regional Studies, Hungary. ²Széchenyi István University Doctoral School of Regional- and Business Administration Sciences, Hungary

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

Sustainable measures in hotels analysed from the demand side
Éva Happ, Júlia Nagy-Keglovich
Széchenyi István University, Hungary

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

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

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 Hicham Mharzi Alaoui

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

Risk assessment of gully erosion by Multicriteria analysis (Rhéraya watershed - Western High Atlas)
Farid El Wahidi, Aicha Fadil
UCA, Morocco
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<td>RS10.2</td>
<td><strong>Regional inequalities and decentralization in the Central and Eastern European countries</strong>&lt;br&gt;Regional development</td>
<td>Tomasz Kossowski, Pawel Motek&lt;br&gt;Adam Mickiewicz University, Poland</td>
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<td><strong>European metropolises and its demographic problems: a spatial approach</strong>&lt;br&gt;Regional development</td>
<td>Tomasz Kossowski, Justyna Wilk&lt;br&gt;Adam Mickiewicz University, Poland</td>
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<td><strong>The unintended effects of cohesion policy: the wealthiest regions will further flourish in Romania</strong>&lt;br&gt;Regional development</td>
<td>Réka Horváth, Tünde Petra Szabó&lt;br&gt;Babes-Bolyai University, Faculty of Economic Sciences and Business Administration, Romania</td>
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<td><strong>Growth and Convergence of the Spanish Regions in the European Union</strong>&lt;br&gt;Regional development</td>
<td>Angel Martinez&lt;br&gt;Universidad Católica San Antonio en Murcia, Spain</td>
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<td><strong>Impacts of the built environment and travel behaviour on attitudes: theories underpinning the reverse causality hypothesis</strong>&lt;br&gt;Infrastructure, transportation and accessibility</td>
<td>Bert Wee¹, Jonas de Vos², Kees Maat¹&lt;br&gt;¹Delft University of Technology, Netherlands. ²Bartlett School of Planning, University College London, United Kingdom</td>
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<td><strong>High Speed Rail and Spatial Equity in Developing Countries: The Case of Turkish High-Speed Railways</strong>&lt;br&gt;Infrastructure, transportation and accessibility</td>
<td>Ahmet Bas¹, Marie Delaplace²&lt;br&gt;¹Abdullah Gul University, Turkey. ²University Paris Est, Lab’Urba, France</td>
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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
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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 Healy¹, Nikos Kapitsinig, Max Munday², Annette Roberts²
   ¹Cardiff School of Geography and Planning, United Kingdom. ²Cardiff Business School, United Kingdom

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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 Castillero
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](https://us02web.zoom.us/j/84686769452)  
Chair Jaime Bonet

80  Elasticities of Regional Total Factor Productivity in the Colombian Economy   
**Carlos Espinel¹, Eduardo Haddad²**  
¹Federal University of São Carlos, Brazil. ²University of Sao Paulo, Brazil

484  Revisiting the structural interdependence: a comparative analysis for Brazil, Colombia, and Mexico   
**Fernando Perobelli¹, Geoffrey Hewings²**  
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 Bonet¹, Diana Ricciulli¹, Javier Pérez³, Eduardo Haddad², Inacio Araujo³, Fernando Perobelli³**  
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](https://us02web.zoom.us/j/88466279359)  
Chair Janet Kohlase

5  Smart Cities and the urban digital divide   
**Andrea Caragliu¹, Chiara Del Bo²**  
¹Politecnico di Milano, Italy. ²Università degli Studi di Milano, Italy
286  A Political-Economy Perspective on Mayoral Elections and Urban Crime
Amit Batabyal¹, Hamid Beladi²
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 Crawley¹, Geoffrey J.D. Hewings²
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
Universitat of the Basque Country UPV/EHU, Spain

162 Effects of Covid-19 Crisis on Sustainable Development in Eu Regions
Daniela Antonescu¹, 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
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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
Lívia 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 Suwala¹, Rodrigo Basco²
¹Technische Universität Berlin, Germany. ²American University of Sharjah, UAE

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

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**PARALLEL SESSIONS (5)**

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

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 Sanguinet¹, Luis Galvis², Inácio Araújo³, Eduardo Haddad³
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 Torres1, Damares Lopes Afonso2, Guilherme Silva Cardoso2, Luiz Augusto Magalhães4, Tânia Moreira Alberti5
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 Moreno1,2, Deysi Jerez Ramirez2
1AMECIDER, Mexico. 2UNAM, 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 Cateia1, Luc Savard2, Terciane Sabadini Carvalho3, Mauricio Vaz Lobo Bittencourt3
1Université Laval, Canada. 2Université de Sherbrooke, Canada. 3Universidade Federal do Paraná, Brazil
A Spatial Mismatch Analysis for Curitiba Metropolitan Area based on Accessibility to Formal Jobs Indexes
Luiz Silva, Alexandre Porsse
Universidade Federal do Paraná, Brazil

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

The practices of the management control system at the level of local authorities in the era of advanced regionalization
Maha Assaad Idrissi¹, Omar Taouab², Yousra Oudda²
¹L'ecole nationale de commerce et de gestion, Morocco. ²IBN Tofail University, Morocco

The subnational crowding out effect of mining windfalls on local tax effort: Does the level of local provision of public goods matter?
Mauricio Oyarzo¹, Dusan Paredes²
¹School of Business Administration, Universidad de Concepción, Chile. ²Department of Economics, Universidad Católica del Norte, Chile

Effects of banking concentration on micro and small firms in Brazil
Tyago Carmo, Santos Gervasio
Federal university of Bahia, Brazil

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

Incorporating e-commerce into retail location models
Graham Clarke
University of Leeds, United Kingdom

Location determinants and sustainability: an exploratory approach
Josep-Maria Arauzo-Card
ECO-SOS (Universitat Rovira i Virgili), Spain

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 Campos¹, Eduardo Amaral Haddad², Inácio Fernandes de Araújo Júnior²
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 Compagnucci¹, Andrea Gentili², Enzo Valentini³, Mauro Gallegati⁴
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)

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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 Wang¹,², Qing Liu³
¹Shanghai University, China. ²University of Technology Sydney, Australia. ³Hefei University of Technology, 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
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

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 Yudhistira1,2, Indra Degree Karimah3, Nadya Rahmi Maghfira1,2
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

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Chair Charles Kofi Owusu

197 Renewable Minigrids for Rural Electrification in Ghana: Analysis of Households’ Willingness to Pay
Artem Korzhenevych1,2, Charles Kofi Owusu1,2,3
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.
Sobee Shinohara
KDDI Research, Inc., Japan

472 Use of Technology in the Rural Households of Bangladesh Having Migrant Members
Tasnua 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 Hua¹, Yue Lu², Ruili Zhao³
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 Ge¹, Lily Kiminami², Shinichi Furuzawa²
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 Horie¹, Kiyoko Hagihara², Fumiko Kimura³, Chisato Asahi²
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 Takano¹, Hiroyuki Okamuro²
¹University of Tsukuba, Japan. ²Hitotsubashi University, Japan
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 Kodama¹, Shigeto Yanai¹, Yuri Kando²
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

‘Jugaad’ and Social Network of Bengali-speaking Muslim migrant workers in Mumbai
Debangana Baruah
Tata Institute of Social Sciences, Mumbai, India

The trajectory of planned urban development: A case study on Rajarhat- Newtown, Kolkata
Angana Banerjee
India

Transculturation and collective identity in subaltern spaces: Urban dynamics of the ethnic enclaves of Chitpur Road formed by multi-ethnic diaspora.
Pritam Dev¹, Paridhi Kedia²
¹Anant National University, India. ²masters of anthropology(pursuing), India

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

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

The urban-rural divide in anti-EU vote: Social, demographic and economic factors affecting the vote for parties opposed to European integration
Laura de Dominics¹, Lewis Dijkstra¹, Nicola Pontarollo²
¹European Commission, DG REGIO, Belgium. ²University of Brescia, Italy

Electoral Earthquake: Natural Disasters and the Geography of Discontent
Augusto Cerqua, Chiara Ferrante, Marco Letta
163  Inclusive Attitudes towards Immigrants in Europe: The Role of Preferences, Space, and Economic Outcomes  
Riccardo Borgoni¹, Dario Casamassima², Caterina Liberati¹, Alessandra Michelangeli¹,³,⁴ 
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

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 Mureșan  
Faculty of European Studies, Babeș-Bolyai University, Romania

323  Remote working as driver for individual and organizational resilience in pandemic context  
Alina Georgiana Proﬁroiu, Maria-Roxana Briscariu  
Bucharest University of Economic Studies, Romania

Alina Pavelea, Alexandru Pavel  
Babeș-Bolyai University, Romania

467  The intriguing connections between regional tourism and economic resilience  
Bogdan-Constantin Ibanescu¹, Gabriela Carmen Pascaru¹, Peter Nijkamp², Karima Kourtit²  
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  

Sapienza University of Rome, Italy
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, Anna Lialina, Daniil Maksimenko
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-E1,2, 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 Antonietti1, Luca Cattani2, Francesca Gambarotto2, Giulio Pedrini4
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 Constantin1, Cristina Serbanica2,1
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 Gál1,2, Szilárd Rácz1
1Centre for Economic and Regional Studies, Hungary. 2University of Pécs, Hungary

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 Jha1, M. Ibrahim Wani2
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 Migliore¹, Chiara Tagliaro¹, Vitalija Danivska², Silvia Leoncini¹, Alice Pomè¹
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

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, Ilaria 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 Özcen 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
Joao-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 Leitão¹,², Sónia de Brito¹
¹University of Beira Interior, Portugal. ²ICS, University of Lisbon, Portugal

566 Space and Territory in the Context of Regional Development
Joao Lourenco 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 Majchrowska¹, Paweł Strawiński²  
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 Boutahri¹, Larbi Barhazi², Rachida El Morabet², Taieb Boumeza¹  
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 Boukhari¹, Hicham Alaqui², Mustapha Naimi³, Chikhaoui Mohammed³  
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 Miao¹, Meri Davlasheridze²  
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 Moukrin¹, Said Lahsini², Hicham Alaoui³, Adnane Labbaci⁴, Laila Rhazi⁴
¹Mohammed V University, Morocco. ²National Forestry School of Engineers- Sale, Morocco. ³Climatic and forest risk management center, Morocco. ⁴Ibn Zohr University, Morocco

113  Assessing the economic impacts of siltation in the dam of Oued el Makhazine
Widad Darif¹, Abdellatif Khattabi²
¹Département des Eaux et Forêts, Morocco. ²Ecole Nationale Foresière 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 Omizzolo¹, Dario Bertocchi²
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 Corrocher¹, Maria Luisa Mancusi²  
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 Graziano¹,², Adam Gallaher², Maurizio Fiaschetti³  
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. ²Ecole Nationale Forestière d’Ingénieurs, Morocco
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

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

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 Elosegui1, Marcos Herrera2,3, Jorge Colina4
1BCRA, Argentina. 2IELDE- UNSa, Argentina. 3Conicet, Argentina. 4IDES, Argentina

549 Long-lasting effects of pandemics: The case of the 1918 influenza pandemic in Argentina
Fernando Antonio Ignacio González1, Juan Antonio Dip2, Silvia London1
1Instituto de Investigaciones Económicas y Sociales del Sur, Universidad Nacional del Sur /CONICET (IIESS, UNSCONICET), 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
     Szchenyi Istvan University, Hungary

449  Effects of industrial agglomeration on the evolution of regional labor productivity (2010-2017)
     André Luiz Silva¹, Marcelo Bentes Diniz²
     ¹Institute of Applied Social Sciences - Federal University of Pará (ICSA/UFPA), 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 Bouzidi¹, Mounir Hassani Zerrouk², Said Benchoucha³, Mohammed Bakkali³
     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’erba¹, Bill Ridley¹, Andre Chagas², Yilan Xu¹
     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 Elburz¹, Karima Kourtit², Peter Nijkamp²
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 Moura¹, Mauro Ferrante²
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 Silva¹, Victor Eduardo de Mello Valério², Rayan Wolf³, Thaís Diniz Oliveira⁴, Fernando Salgueiro Perobelli¹
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 Oliveira¹, André Luís Squarize Chagas²
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 AbdelkaderBenmesaud-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-Ozkan¹, Adrian Williams¹, Khaled Abdou¹, Pietro Goglio²  
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 Luca¹, Alessio Romarri²  
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
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 Moises¹, Nicola Pontarollo², Rodrigo Mendieta³
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 Mendoza¹, Benjamin Jara²
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 Carriel¹, César Andrés Mendoza², Nicola Pontarollo³, Rodrigo Mendieta²
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, Thais 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
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 Diniz¹, Monica Liseth Cardozo², Julio César Arteaga³
      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
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

Integrating spatial development with infrastructure provision: A conceptual framework and its application to India
Manisha Jain¹, Artem Korzhenevych¹, Jörg Knieling²
¹Leibniz Institute of Ecological Urban and Regional Development, Germany. ²HafenCity University, Germany

Rural to urban transformation in India as census towns: Rural-urban dichotomy revisited
Manisha Jain¹, Artem Korzhenevych¹, Jörg Knieling²
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

Innovation-disrupted spatial equilibrium: Insights from the Israeli experience
Raphael Bar-El¹,², Liran Maymoni¹,²
¹Ben-Gurion University, Israel. ²Sapir Academic College, Israel

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, "Babeș-Bolyai University", Cluj-Napoca, Romania

The relevance of smart cities in assessing urban labor market resilience. A post-transition economy specificity
Dan Lupu, Liviu Geroige Maha, Daniela Elena Viorica
Alexandru Ioan Cuza University of Iasi, Romania
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.

07:55 - 08:00 | Welcome
Peter Batey, President, The Regional Science Academy (TRSA)

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

08:00-09:30 | 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
09:30-10:00 | Break

10:00-12:00 | 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 Addi

7) More timely, more granular - progress and bottlenecks in measurement
   Alexander Lembcke

12:00-13:00 | Break

13:00-14:30 | 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

14:30-15:00 | Break

15:00-16:30 | 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.

16:30-17:15 | 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 Kourtit
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-Canotí, Fernando López Hernandez²
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
Lea 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

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

524 Research on the Efficiency of Technological Innovation in Chinese Industrial Enterprises  
Yuting Li, Shuyan Zhen  
Northeast Normal 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 Djunedı¹  
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 Meliho¹, Abdellatif Khattabi², Mohamed Boullmane³, Nadia Mhammedi¹
¹Université Mohammed V, Morocco. ²Ecole Nationale Forêtière 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 Hassana¹, Abdellatif Khattabi²
¹Faculté De Science IBN Tofail-Kenitra, Morocco. ²Ecole Nationale Forêtière 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 Modica¹, Giovanni Marin², Susanna Paleari³, Roberto Zoboli⁴
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 Debarman
    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 Cadene¹, Abdul Shaban²
    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
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
Zoltan Gál1,2, András Gyimesi2
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 Józsa1, Pál Szabó2, Ákos Jakobi2
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 Juhász1, Eszter Bokányi1, Zoltán Elekes2,3, László Czaller2,4, Gergő Tóth5,2, András Borsos6,7, Tünde Szabó8, Márton Karsai7,9, Balázs Lengyel1
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 Elsehly¹, Aml Ghonim²
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 Elshahawany¹, Eduardo Haddad², Michael Lahr³
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 García-López¹,², Rosella Nicolini³, José Luis Roig Sabaté¹
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 Schüler
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, Ian 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 Quirog, Ludo Peeters, Coro Chasco
1Facultad de Ciencias Económicas y Empresariales, Universidad Autónoma de Madrid, Spain. 2Hasselt University, Belgium

381 Related Variety: A Meta-analysis
Jeroen Content, Martijn Smit
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, Vinicius Vale, Guilherme Salgueiro
1Federal University of Juiz de Fora, Brazil. 2Federal University of Paraná, Brazil
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

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

On Smart Institutions: Towards New Territorial Actors to Support Ecological Transition and Regional Diversification
Alberto Brugnoli
University of Bergamo, Italy

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

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

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

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

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 Artelaris¹, Dimitris Kallioras², Anastassis Katsinis³
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 Banica1,2, Karima Kourtie3, Peter Nijkamp4 Corodescu-Rosca1
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 actoriness and societal perceptions in Ukraine and Republic of Moldova
Gabriela Carmen Pascariu1, Loredana Maria Simionov1, Nadia Bureiko2,3
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

279 “With no siblings, but with home”: single patent-class inventions (SPIs) and regional technological diversification in Europe
Claudio Cozza1, Ilaria Gandin2, Sandro Montresor3, Alessandro Palma3, Gianluca Tarasconi4
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 Faid 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 Legdou1, Aouatif Amine1, Said Lahssini2, Hassan Chafik3, Mohamed Berrada3
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 Legdou1, Aouatif Amine1, Said Lahssini2, Hassan Chafik3, Mohamed Berrada3
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 Lahssini1, Said Moukrim2, Hicham Alaoui3, Hicham Hajji4, Loubna El Mansouri5
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 Bouzidi1, Mourir Hassani Zerrouk2, Said Benchoucha3, Mohammed Bakkali3
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, Hicham Alaoui
Departement of agriculture, Morocco. Climatic 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, Andrey Mikhaylov, Dmitry Hvaley
Immanuel Kant Baltic Federal University, Russian Federation. Institute 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, Manh D. Pham, Hien Pham Thu
University of Queensland, Australia. CSIRO, 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, Alistair Dieppe, Atsushi Kawamoto, Cedric Okou, Jonathan Temple
World Bank, USA. European Central Bank, Germany. Ministry of Finance, Japan. United Kingdom
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

PARALLEL SESSIONS (14)

National Session: SS54 - Regional Science in Paraguay

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

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

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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

16:00 - 17:15 Thursday, 27th May, 2021
Room NEREUS
https://us02web.zoom.us/j/83942885151
Chair Pedro Luis Elosegui

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 Estefania Belmartino
GSSI, Italy
Argentina’s integration into global value chains: a sectoral and product analysis, and an attempt at regionalization

**Pedro Esteban Moncarz**, Nestor Clever Grion, Ileana Raquel Jalile

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](https://us02web.zoom.us/j/87555502007)

Chair Ana Serrano

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

**Amit Batabyal**, Hamid Beladi

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**, Rosa Duarte, Vicente Pinilla

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](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 Agrotourism Market

**Aliza Fleischer**, Shachar Hatan, Anat Tchetchik

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**, Chiara Burlina, Iacopo Odoardi

1Gran Sasso Science Institute, Italy. 2University of Chieti-Pescara, Italy
301 Effect of Urban Railway Network Accessibility on Housing Prices
Hojune Lee, Euijune Kim
Seoul National University, Korea, Republic of

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

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’erba¹, Ran Xu², Nicole Riemer¹, Yilan Xu¹, Yao Yu¹
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 Tanure¹, Edson Domingues², Aline Magalhaes²
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 Arcos¹, Bernardo Lara², Dusan Paredes¹
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 Maurilio¹, Jôao Eudes², Tatiane Menezes¹, Sebastião Lima³
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 Harel¹, Dafna Schwartz², Dan Kaufmann³
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, Vidiyani 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](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, Łukasz Arendt³, Ewa Galecka-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](https://us02web.zoom.us/j/84441830561)  
Chair Rafael Garduño-Rivera
102 The geostrategic position of Romania from the perspective of energy resources
**Alexandra Colcer**, Mihail Paduraru, Irimuș Ioan Aurel
1Babeș 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**, Fernando Salgueiro Perobelli, Weslem Rodrigues Faria
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](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**, Carlos Alberto Piacenti, Angelo Costa Gurgel
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](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
Jabrane Amaghous, Aomar Ibourk
Department of Economics, FSJES, Cadi Ayyad University, Morocco

298 A Spatial Analysis of education inequality determinants: the case of Morocco
Jabrane 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 Philip Morrison

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-McGrevy¹, Gail Pacheco², Kade Sorensen¹
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 Squires¹, Hai Trinh¹, Don Webber², Arshad Javed¹
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 Cochrane¹, Jacques Poot¹,², Matthew Roskruge³
¹University of Waikato, New Zealand. ²Vrije Universiteit Amsterdam, Netherlands. ³Massey University, New Zealand
SS42.2 - Regional and urban resilience in a turbulent world: perspectives from Aotearoa New Zealand

ANZRSAI

09:00 - 10:30 Friday, 28th May, 2021
Room Lagouira
https://us02web.zoom.us/j/88511789571
Chair Jacques Poot

259 How do pandemics affect economic growth? Lessons from the 1968 H3N2 influenza and 2003 SARS
Ilan Noy
Victoria University of Wellington, New Zealand

Philip Morrison¹, Stephanie Rossouw², Talita Greyling³
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

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 Pei¹,², Jing Wu¹,², Junbo Xue¹,², Jincai Zhao³, Changxin Liu¹,², 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
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 Djunedi
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 Neogi¹, Subhra Chattopadhyaya²
1Sarojini Naidu College for Women, India. 2Lady Brabourne College, India

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
Contestation and agency in subaltern spaces-the dichotomy of law and space in Dharavi slum, Mumbai
Paridhi Kedia¹, Pritam Dey²
¹ independent researcher, India. ² urban 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

Glocalization of Natural Farming and Regional Development
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Katsuhiko Kajiwara
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Kyoko Ohta
Ehime University, Japan

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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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1University of São Paulo, Brazil. 2Department of Economics, University of São Paulo, Brazil. 3FGSES, Mohammed VI Polytechnic University, Morocco

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1FGSES- Mohammed 6 Polytechnic University, Morocco. 2Mohammed 5 University, Morocco. 3University of Sao Paulo, Brazil

193 Multidimensional Poverty in Morocco: An Exploratory Spatial Approach
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1University of São Paulo, Brazil. 2FGSES, Mohammed VI Polytechnic University of Benguerir, Morocco
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¹Policy Center for the News South, Morocco. ²Mohammed VI Polytechnic University, Morocco. ³University of São Paulo, Brazil

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¹UMCS, Poland. ²University of Warsaw, Poland

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Department of Regional and Local Studies. Faculty of Human Geography and Planning. Adam Mickiewicz University, Poznan, Poland

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Adrienn Reisinger
Széchenyi István University, Hungary

Migration and Innovation: measuring the effect of skill-specific flows on patents, trademarks and designs across Italian provinces

Adriana C. Pinato¹, Alessandra Faggian¹, Claudio Di Berardino², Carolina Castaldi³
¹Gran Sasso Science Institute, Italy. ²University of G. d’Annunzio, Italy. ³Utrecht University, Netherlands

National Session: SS49 - Sharing Economy and Urban Sustainability in Thailand

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Chair Nij Tontisirin

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Shusak Janpathompong¹, Akinobu Murakami², Jirapat Jitwattanasilp³, Nutnaree Jaruniphakul⁴, Yanin Chivakidakarn Huyakorn¹
¹Chulalongkorn University, Thailand. ²University of Tsukuba, Japan. ³Urban Studies Lab, Thailand. ⁴Regional, Urban, & Built Environmental Analytics, Thailand

Bangkokian’s Commuting Mode Choice Behavior: Ready for a Shift towards Shared Mobility?
Eva Ayaragarchanakul¹,², Felix Creutzig³,¹, Nattapon Puttanapong⁴
¹Sustainability Economics of Human Settlements, Technische Universität Berlin, Germany. ²Faculty of Economics, Prince of Songkla University, Thailand. ³Mercator Research Institute on Global Commons and Climate Change, Berlin, Germany. ⁴Faculty of Economics, Thammasat University, Thailand

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Sutee Anantsuksomsri¹,²,³, Areen Phuntarakit², Jean-Claude Thill³, Nij Tontisirin⁴
¹Department of Urban and Regional Planning, Faculty of Architecture, Chulalongkorn University, Bangkok, Thailand. ²Center of Excellence in Regional, Urban, & Built Environmental Analytics, Faculty of Architecture, Chulalongkorn University, Bangkok, Thailand. ³Department of Geography & Earth Sciences, College of Liberal Arts & Sciences, University of North Carolina at Charlotte, USA. ⁴Faculty of Architecture and Planning, Thammasat University, Pathumthani, Thailand

Walking distance in tropical-climate central business district during lunch time: A case study of Bangkok
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¹Regional, Urban, & Built Environmental Analytics, Faculty of Architecture, Chulalongkorn University, Thailand. ²Department of Landscape Architecture, Faculty of Architecture, Chulalongkorn University, Thailand. ³Graduate School of System and Information Engineering, University of Tsukuba, Japan.

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¹Lewis College of Science and Letters, Illinois Institute of Technology, USA. ²Regional, Urban, and Built Environmental Analytics Research Unit, Faculty of Architecture, Chulalongkorn University, Thailand. ³Department of Urban and Regional Planning, Faculty of Architecture, Chulalongkorn University, Thailand
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    Isabel de Almeida
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     ¹University of Luxembourg, Luxembourg. ²University of Rouen, France

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¹The Institute of Economics, Zagreb, Croatia. ²University Josip Juraj Strossmayer of Osijek Faculty of Law, Croatia

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University of Split, Faculty of Economics, Business and Tourism, Croatia

533 Reorientation as a tool for recovery: analysis of regional economic resilience in Croatian NUTS 3 regions
Zvonimir Kuliš¹, Bernarda Kuliš²,³
¹University of Split, Faculty of Economics, Business and Tourism, Croatia. ²Aspira University College – Split, Croatia. ³Regional Development Agency of Split-Dalmatia County, Croatia

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¹Texas Tech University, USA. ²University of North Texas, USA

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Soukaina Ait Errami, Hicham Hajji, Kenza Ait El Kadi, Hassan Badir
1School of geomatic sciences and surveying engineering. IAV Institute, Morocco. 2National School of applied sciences, Tangier, Morocco

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1School of Architecture, Planning & Design, UM6P, Morocco. 2School of Geomatic Sciences and Surveying Engineering, IAV Hassan II, Morocco

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1Piri Reis University, Turkey. 2University of Barcelona & AQR, Spain

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1University of Brescia, Italy. 2University of Cuenca, Ecuador

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1Kiel Institute for the World Economy, Germany. 2University of South Carolina, USA. 3Gran Sasso Science Institute, Italy. 4Ohio State University, USA

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Politecnico di Milano, Italy

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1Universidad Autónoma de Barcelona, Spain. 2Universidad Javeriana, Colombia. 3Johns Hopkins University, USA. 4P Universidad Javeriana, Colombia

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1Politecnico di Milano, Italy. 2Utrecht University, Netherlands. 3Erasmus School of Economics and Institute for Housing and Urban Development Studies (IHS), Erasmus University Rotterdam, Netherlands
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Room Marrakech

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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

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**CLOSING CEREMONY**

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Room Marrakech

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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
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