

# Second Training School POLISS Milan, Italy 4-9 July 2022

WP2, D33 - D2.3







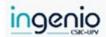
























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## Second Training School POLISS Milan, 4-9 July 2022

The Winter School in Milan was originally planned for 23 January – 3 February 2022. Due to a high rise of COVID19 cases and related restrictions early 2022, we decided to postpone most of our Winter School programme to the summer. Ultimately, the activities were distributed as follows:

Date	Activity	Description	Format
31 January	Wellbeing session ESRs	Time & stress management within a	online
		PhD mobility project in times of travel	
		restrictions	
4 July	Opening POLISS training	Skills development and specialisation	onsite (Bocconi
	school	courses; meeting stakeholders	University, Milan)
4-6 July	GEOINNO Conference, co-	Networking and dissemination through	onsite (Bocconi
	organized by POLISS	POLISS presentations	University, Milan)
7-8 July	POLISS Training School	Skills development and specialisation	onsite (Bocconi
		courses; meeting stakeholders	University, Milan)
9 July	POLISS teambuilding	Socializing activity for ESRs and	onsite (Milan)
		supervisors	

On January 31<sup>st</sup> we held an online session, organized by Bocconi University, with a psychologist team and the ESRs addressing challenges of taking part in a mobility PhD programme in times of a global pandemic. The group focused on coping strategies such as mindfulness and time management.

Between July 4<sup>th</sup> and July 10<sup>th</sup> we were able to meet face-to-face in Milan for the remainder of our second POLISS Training School, including the GEOINNO conference. The focus of this school fell on methodological up-skilling (Python, SNA, etc.), social and environmental sustainability in the context of smart specialization and EU governance mechanisms, including policy monitoring.



#### **Opening POLISS training school**

We kicked off the first winter school with a lecture by Professor Luisa Gagliardi on the design and implementation of the difference-in-difference econometrics model. The session focused on the intuition behind the model, its pros and cons and included a practical example of a sample research paper which applies the diff-in-diff model in the context of assessing inventor leadership skills. Along with the methodological training, Professor Gagliardi also shared professional insight on the process of writing a research paper, including how to position your arguments in a convincing way, how to respond to reviewers' demands and the importance of acknowledging limitations.

In the second half of the morning, the ESRs transitioned to a role play exercise on sustainable practices, under the supervision of Fabrizio Guarrasi and Silvia Brembati from the Lombardy Energy Cleantech (LE2C) cluster. The goal of the exercise was to navigate between a set of individual stakeholder interests, while meeting the collective target: a reduction of the communal energy usage. The session was very dynamic, as each ESR had to step into the shoes of a particular stakeholder, be it the CEO of a waste processing company or a city councilor. The session was useful in highlighting the challenges of balancing diverging economic, professional and environmental interests, and it helped ESRs strengthen their communication and negotiation skills.











#### **GEOINNO Conference, co-organized by POLISS**

The Geography of Innovation (GEOINNO) conference was an important addition to the POLISS school, as it offered an opportunity for ESRs to expand their professional network and disseminate research results in front of a diverse audience. The event itself was coorganized by POLISS, which ensured widespread visibility of our ITN.

Overall, GEOINNO gathered a total of 262 registered participants from across Europe and beyond, including academics and policy makers. The ESRs contributed to 8 of the 68 parallel sessions with 10 presentations. Further information on the ESRs' individual interventions is available in the table below.

ESR presenter	Conference session	Presentation title	
Eduardo Hernández	Globalization of innovation and	Regional Task Spaces: Functional	
Rodríguez	knowledge	Diversification Processes	
Ron Boschma		throughout GVCs	
Andrea Morrison			
Martina Pardy	Globalization of innovation and	Multinationals & intra-regional innovation	
	knowledge	concentration	
Pedro Llanos	Innovation policy for regions	Fraunhofer centers across Europe: Effects of	
	and countries	Technology Transfer on	
		Regional Innovation	
Charles Abbott	Transformative regional	Towards a new framework for bridging the	
	resilience and innovation	emerging dichotomy between Smart Specialisation and the	
		Missions-Based policy	
		approaches?	
Carolin Nast	Evolution of complexity in time	Does government support drive complexity or	
Tom Brökel	and space	does complexity	
Lars Mewes		drive government support?	
Benjamin Cornejo-Costas	Migration, globalization and	Immigration restrictions and their impact on	
	the knowledge economy	novel and impactful	
		innovation in the United States	
Alessio Giustolisi	Innovation policy for regions	Smart Specialisation: towards an outward	
Maximilian Benner	and countries	looking approach	
Michaela Trippl			
Dongmiao Zhang	Pathways to inclusive labour	The creative destruction of artificial	
Ron Boschma	markets (pillars)	intelligence: Evidence from US metropolitan	
Pierre-Alexandre Balland		statistical areas	
Stefan Apostol	Smart specialisation and	More Than Machinery, We Need Humanity-	
	interregional collaboration	The Importance of a	
		Humanised Governance Quality	
		Measurement for regional	
		innovation and Smart Specialisation Policies	
Ghinwa Moujaes	Economic complexity to inform	How does economic complexity impact local	
	policy	inequality across EU	
		regions?	















The logo of the POLISS network was printed on all official materials associated with the GEOINNO conference, including participants' name tags and tote bags. Personalized fliers with information about each ESR's research activity and the overarching purpose of the POLISS community, were on display next to the registration desk of the conference, so that anyone interested could learn more.

Most ESRs' presentations had an audience of 20+ attendees.









#### **POLISS Training School**

Following the closing of GEOINNO, the POLISS community reconvened to continue with a series of specialized trainings. On Thursday morning Stefania Trenti, the head of the R&D department at Intesa Sanpaolo introduced the ESRs to the activities of her team, which include, among other things: monitoring, publishing, outreach to industrial associations, advisory, scientific and academic activity, collection and release of data. Intesa Sanpaolo is Italy's largest bank by total assets and it maintains the ISID Integrated Database, which features information on patents, trademarks, quality and environmental certification, FDI, foreign market activity, governance and other. Stefania presented a particular project of the R&D department which involved a comprehensive assessment of the bioeconomy in Europe and outlined the systematic challenges creating of a methodology for tracing the source of materials in the production cycle, particularly in Italy. The session concluded with a practical insight into the challenges of comparing industrial districts and assessing their performance against fixed indicators.

The morning continued with a session on the application of Social Network Analysis (SNA) in Python by Professor Stefano Breschi from Bocconi University. The session covered all basic elements of SNA, including node centrality, network density, clustering, etc. The ESRs had the chance to gain hands-on experience working with Jupyter notebook, which is the preferred platform for most Python users. Professor Breschi also shared tips on visualizing complex networks using a sample co-inventor network based on shared patent applications. The ultimate goal of this exercise was to broaden the perspective of all ESRs with regards to possible methodological approaches, irrespective of their prior coding experience.







In the afternoon, the POLISS school continued with a session on economic complexity by Dario Diodato, who works at the Joint Research Center (JRC) of the European Commission, and is a member of the Harvard University's Growth Lab. Dario began his presentation with a theoretical overview of economic complexity, demonstrating how the concept departs from mainstream interpretations of individual vs societal specialisation. He engaged the ESRs in a discussion on the potential of using economic complexity to predict the future industrial trajectories of countries. In the second half of his talk, Dario walked the ESRs through a practical example of calculating economic complexity using Python.

The last day of the POLISS school started with a morning lecture by Elisabetta Marinelli on the topic of monitoring smart specialization. Elisabetta is a former JRC member with many years of professional experience on the interface between science, business and policy. Her presentation offered a practitioner's perspective on the implementation of smart specialization, covering a wide range of topics from intervention logic to building indicators and gathering relevant data. She also introduced the ESRs to the "jargon" of policymakers, which is often misinterpreted by academics, but is critical for understanding policy documents and reports. In the second half of the morning session, the ESRs had the opportunity to apply what they've learned in practice by defining output and result indicators for various sample policy interventions. This exercise highlighted the inherent difficulties of setting up a proper intervention logic, whereby the measured indicators match the specific objective pursued by the policy intervention.

















The afternoon session was led by Laura Belloni and her colleagues from PTS, a consulting company which provides technical assistance and performs policy for public administration evaluation bodies. The session focused on how the typical programme evaluation service is structured, starting from the design of the evaluation process itself. The speakers covered the advantages and disadvantages of using quantitative vs qualitative methods, as well as various forms of data collection tools for primary vs secondary data. They also highlighted the difference measuring between efficiency. effectiveness and impact. Given its rich practical experience in providing services to public administration bodies, the team

from PTS provided some useful insights regarding the time and resource constraints evaluators often face, the importance of collecting relevant data and communicating results to the client in a way that not only informs but also improves future decision making. The session ended with a practical group exercise, whereby the ESRs were prompted to evaluate one specific action of a sample ERDF Programme "Support for collaborative R&D activities" in terms of its contribution to a particular S3 objective "Increase in business innovation activities". Each team had roughly 5 minutes to pitch their evaluation design to an imaginary client, and was afterwards given feedback by the PTS consultants themselves.





#### **POLISS teambuilding**

On the last day of the POLISS training school, we gathered for a team-building activity, which included a picturesque hike to the Monte Barro peak near the town of Lecco. The hike offered space for reflections and discussions in a relaxed informal environment after an intense week of lectures and presentations.







## ANNEX 1: PROGAMME TRAINING SCHOOL MILAN



## POLISS PhD Training School Italy, Milan 4 July – 9 July 2022

To care for the environment, please bring your own water bottle

Please bring your own laptop and headphones

#### **Locations:**

**Bocconi University, Milan** 

For POLISS Training School

via Roentgen 1

Econometrics with Stata (July 4<sup>th</sup> at 9.00): InfoAS04 (floor -2)
All other sessions training school: **4e4 sr01** (fourth floor)
At the reception you will get the pass to enter the building (see email visitors pass)

For GEOINNO please see geoinno2022.com

#### **Organizers:**

Stefano Breschi (Bocconi University)
Andrea Morrison (University of Pavia / Utrecht University)





### Programme

#### **Monday 4 July**

Room: via Roentgen 1 room InfoASO4 (Econometrics) & room 4e4 srO1 (LE2C cluster)

08:30-09:00	Welcome and Coffee/Tea		
09:00-10:30	Econometrics with Stata room: InfoAS04 (floor -2)		
	Luisa Gagliardi (Bocconi University)		
10:30-10:45	Coffee/Tea		
10:45	The industrial symbiosis for sustainability: the serious games methodology		
	Fabrizio Guarrasi & Silvia Brembati (LE2C cluster) room: 4e4 sr01 (4th floor)		
08:30-09:00	Welcome and Coffee/Tea		
	GEOINNO 2022 → see also: geoinno2022.com/program-overview		
	<b>POLISS Corner:</b> explain Smart Spec to GEOINNO community + network (flyers/poster)		
13:30-15:45	Plenary Session		
	Welcome speeches		
	Keynote: Professor Raquel Ortega Argiles		
	Keynote: Professor Matt Marx		
16:15-18:20	Parallel Session 1		
18:45-20:30	Welcome Cocktail		

#### **Tuesday 5 July**

	GEOINNO 2022 → see also: geoinno2022.com/program-overview  POLISS Corner: explain Smart Spec to GEOINNO community + network (flyers/poster)		
09:00-11:00	Plenary Session		
	Welcome speeches		
	Keynote: Professor Meghan MacGarvie		
	Keynote: Professor Thomas Kemeney		
11:30-13:10	Parallel Session 2		
13:10-14:10	Lunch Break		
14:10-15:50	Parallel Session 3		
16:20-18:25	Parallel Session 4		
20:00-23:00	Gala Dinner		

#### Wednesday 6 July

	GEOINNO 2022 → see also: geoinno2022.com/program-overview		
	<b>POLISS Corner:</b> explain Smart Spec to GEOINNO community + network (flyer/poster)		
09:00-10:30	Policy Session: Green transition in Europe and recovery innovation policy		
	Professor Bernard Truffer, Dr Lucia Cusmano, Dr Clara Poletti		
	Innovation Diffusion Session:		
	To be confirmed		
11:00-12:40	Parallel Session 5		
12:40-13:40	Lunch Break		
13:40-15:20	Parallel Session 6		
15:50-17:30	Parallel Session 7		
18:00	Farewell Speeches		





#### **Thursday 7 July**

Room: via Roentgen 1 room **4e4 sr01** (fourth floor)

08:45-09:00	coffee/tea
09:00-11:00	Banca Intesa: Observatory on Industrial Districts
	Giovanni Foresti
11:00-11:30	coffee/tea
11:30-13:00	Working with patent data and SNA using python
	Stefano Breschi (Bocconi University)
13:00-14:00	lunch
14:00-16:30	How to measure Complexity
	Dario Diodato (JRC Seville)
16:30-18:00	Meet and Greet ESRs and POLISS Supervisors
	Exchange project ideas
	Social Dinner

#### Please note: cancelled

09:00-11:00	parallel session	
	Discuss POLISS – Supervisors, PIs	

#### Friday 8 July

Room: via Roentgen 1 room **4e4 sr01** (fourth floor)

08:30-09:00	Coffee/Tea	
09:00-12:30	Elisabetta Marinelli	
12:30-14:00	Lunch	
14:00-16:00	Evaluation of European Structural Investment Funds	
	Laura Belloni (PTSCLAS)	
16:00-16:15	Coffee/Tea	
16:15-18:00	Evaluation of European Structural Investment Funds	
	Laura Belloni (PTSCLAS)	

#### Saturday 9 July

Hike to Monte Barro

Please bring comfortable shoes, sunblock and - just in case - your swimming trunks

#### **Sunday 10 July**

end of Milan Training School





## ANNEX 2: PROGAMME GEOINNO 2022



## 6th Geography of Innovation Conference

4th - 6th July 2022 Bocconi University Milan







SUPPORTING SPONSOR



#### **BOCCONI UNIVERSITY**

Bocconi University was established as a private, independent, non-profit university in Milan in 1902 thanks to the generous endowment from Ferdinando Bocconi, a wealthy merchant. Named after his lost son, Università Commerciale Luigi Bocconi thus became the first Italian institution to grant higher degrees in economics and management, . and has played an important role in Italy's social and economic modernization.

Academic independence, merit, openness, pluralism and social responsibility are the core values that continue to guide and inspire the activities of the Bocconi community of students, faculty, staff and alumni to this day.

Today Bocconi is considered one of the leading European universities in economics, management, business administration, finance, social and political sciences data science and law, offering undergraduate and graduate programs and Ph Ds, as well as MBAs through its business school, SDA Bocconi School of Management.

Bocconi University appears in the most prominent rankings which cover its areas of expertise, steadily positioned among top European institutions.

The University has a growing reputation as a global research institution in the social sciences, with a worldclass faculty and a diverse student population.

Besides its 15,000 students, Bocconi has a global network of 120,000+ alumni, 287 partner schools, and 600+ employers.

In accordance with our current motto, Knowledge That Matters, our ambition is to provide valuable answers to the needs of students, researchers, private and public organization, in a global context dominated by accelerating technological and environmental trends.

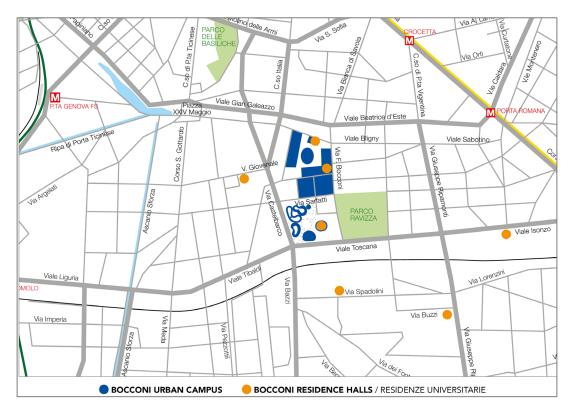
#### **POLISS**

POLISS is an Innovative Training Network funded by the EU Framework Programme for Research and Innovation (H2020-MSCA-ITN grant agreement No 860887) bringing together 7 European Universities and 13 Partners with the aim of contributing to the improvement of the EU's Smart Specialisation Policy.

The POLISS project will be training a new generation of experts in regional development and innovation policy, contributing to a more effective design, implementation and evaluation of RIS3 actions in EU regions. Within POLISS, 14 PhD research fellows will be trained and work together to achieve the objectives of the POLISS Innovative Training Network. The network will run for a 4-year period, ending in December 2023.

Poliss is funded by the European Union. Views and opinions expressed are however those of the authors only and do not necessarily reflect those of the European Union. Neither the European Union nor the granting authority can be held responsible for them.

#### HOW TO REACH BOCCONI UNIVERSITY



#### **From Linate Airport**

- Taxi: 30 minutes (approximately from € 20 to € 30)
- Bus 73 to stop 5 Giornate, tram 9 (direction Porta Genova FS, get off at V.le Bligny. (€ 2)..

#### From Malpensa Airport

- Taxi: 50 minutes (€ 95 fixed rate)
- Direct train: Malpensa Express to Cadorna Railway Station (€ 11) + subway green line 2 (direction Abbiategrasso Chiesa Rossa/Assago Milanofiori forum, get off at Porta Genova) + tram 9 (direction Centrale FS, get off at Porta Ludovica) (€ 2)
- Direct bus: Malpensa Shuttle to Central Railway Station (€ 7.50). The bus runs every 20 minutes. From Stazione Centrale see below (€ 2).

#### From Milan Central Railway Station

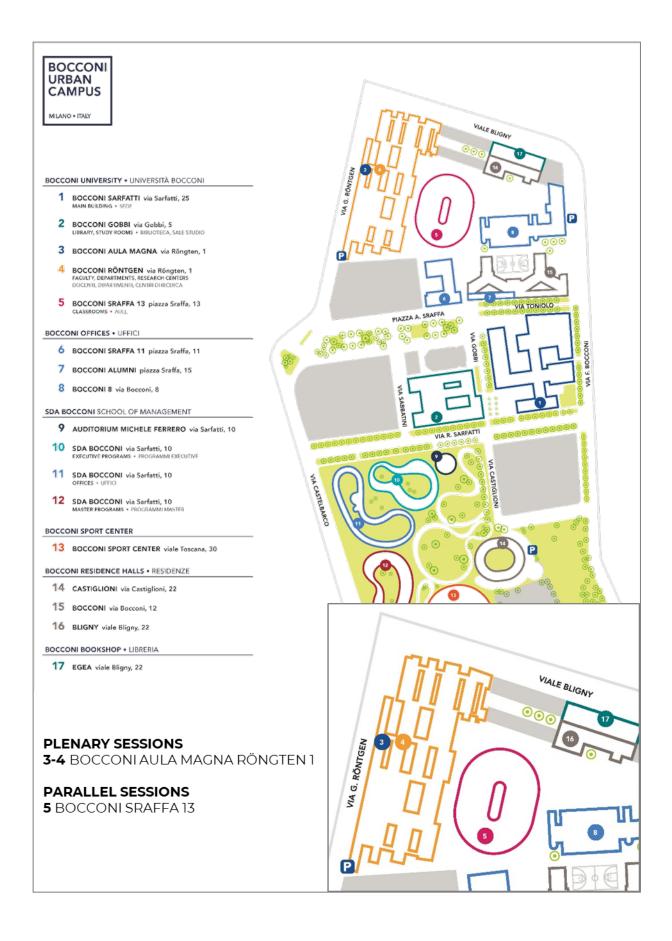
- Taxi: 20 minutes (approximately € 17)
- Public transport: Stazione Centrale, then underground line 3 (yellow line) towards S. Donato.
   Get off at Porta Romana station and take tram no. 9 to Porta Genova and get off at Bocconi. (€ 2)

#### WI-FI

Two Wi-Fi networks are available on the Campus:

- Bocconi-Guest wifi network: you have to register by entering your cellphone number, and you receive a code, that allows you to access the University network.
- EduRoam, which you can access with your network credentials.

#### **GEOINNO2022 VENUE**



#### **SUMMARY**

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INNOVATION SYSTEMS	Parallel Session 4	Room: N16	
CLUSTERS, INDUSTRIAL DISTRICTS AND REGIONAL	July 6 <sup>th</sup>	11.00-12.40	30
INNOVATION SYSTEMS	Parallel Session 5	Room: N12	
DATA AND NETWORK SCIENCE METHODS IN ECONOMIC	July 4 <sup>th</sup>	16.15-18.20	12
GEOGRAPHY	Parallel Session 1	Room: N10	
DATA AND NETWORK SCIENCE METHODS IN ECONOMIC	July 5 <sup>th</sup>	11.30-13.10	17
GEOGRAPHY	Parallel Session 2	Room: N10	
DATA AND NETWORK SCIENCE METHODS IN ECONOMIC	July 5 <sup>th</sup>	14.10-15.50	21
GEOGRAPHY	Parallel Session 3	Room: N03	
DIGITAL TECHNOLOGIES, ECO-INNOVATION AND LABOUR	July 4 <sup>th</sup>	16.15-18.20	12
MARKET OUTCOMES	Parallel Session 1	Room: N12	
DIGITAL PLATFORMS FOR INNOVATIVE CREATIVE AND	July 6 <sup>th</sup>	11.00-12.40	30
ENTREPRENEURIAL PRACTICES	Parallel Session 5	Room: N14	
ECONOMIC COMPLEXITY TO INFORM POLICY	July 4 <sup>th</sup>	16.15-18.20	13
	Parallel Session 1	Room: N13	
ECONOMIC COMPLEXITY TO INFORM POLICY	July 5 <sup>th</sup>	11.30-13.10	17
	Parallel Session 2	Room: N11	
ECONOMIC COMPLEXITY TO INFORM POLICY	July 5 <sup>th</sup>	14.10-15.50	22
	Parallel Session 3	Room: N10	
ECONOMIC COMPLEXITY TO INFORM POLICY	July 5 <sup>th</sup>	16.20-18.25	26
	Parallel Session 4	Room: N10	
ENTREPRENEURIAL ECOSYSTEMS AND THE ROLE OF PLACE:	July 4 <sup>th</sup>	16.15-18.20	13
FOUNDATIONS, POLICIES, AND DYNAMICS	Parallel Session 1	Room: N15	
ENTREPRENEURIAL ECOSYSTEMS AND THE ROLE OF PLACE:	July 5 <sup>th</sup>	14.10-15.50	22
FOUNDATIONS, POLICIES, AND DYNAMICS	Parallel Session 3	Room: N17	
EVOLUTION OF COMPLEXITY IN TIME AND SPACE	July 5 <sup>th</sup>	16.20-18.25	26
	Parallel Session 4	Room: N13	
EVOLUTION OF COMPLEXITY IN TIME AND SPACE	July 6 <sup>th</sup>	11.00-12.40	31
	Parallel Session 5	Room: N10	
EVOLUTION OF COMPLEXITY IN TIME AND SPACE	July 6 <sup>th</sup>	13.40-15.20	33
	Parallel Sessions 6	Room: N10	
EXPLORING TECHNOLOGICAL TRANSFORMATION IN	July 6 <sup>th</sup>	13.40-15.20	33
EUROPE	Parallel Sessions 6	Room: N15	
GEOGRAPHY, ENVIRONMENT AND JUSTICE	July 4 <sup>th</sup>	16.15-18.20	13
	Parallel Session 1	Room: N16	
GEO-REFERENCED BIG DATA TO UNPACK THE GEOGRAPHY	July 5 <sup>th</sup>	11.30-13.10	17
OF INNOVATION	Parallel Session 2	Room: N13	
GLOBALISATION OF INNOVATION AND KNOWLEDGE	July 4 <sup>th</sup>	16.15-18.20	14
	Parallel Session 1	Room: N11	
GLOBALISATION OF INNOVATION AND KNOWLEDGE	July 5 <sup>th</sup>	11.30-13.10	18
	Parallel Session 2	Room: N12	

SESSION TITLE	Date	TIME/ROOM	PAGE
GLOBALISATION OF INNOVATION AND KNOWLEDGE	July 5 <sup>th</sup>	14.10-15.50	22
	Parallel Session 3	Room: N15	
GLOBALISATION OF INNOVATION AND KNOWLEDGE	July 5 <sup>th</sup>	16.20-18.25	26
	Parallel Session 4	Room: N17	
GLOBALISATION OF INNOVATION AND KNOWLEDGE	July 6 <sup>th</sup>	11.00-12.40	31
	Parallel Session 5	Room: N13	
GREEN AND SUSTAINABLE INNOVATION	July 4 <sup>th</sup>	16.15-18.20	14
	Parallel Session 1	Room: N17	
GREEN AND SUSTAINABLE INNOVATION	July 5 <sup>th</sup>	11.30-13.10	18
	Parallel Session 2	Room: N14	
HISTORICAL ROOTS OF REGIONAL INNOVATION	July 5 <sup>th</sup>	11.30-13.10	19
	Parallel Session 2	Room: N15	
INNOVATION IN DEVELOPING AND EMERGING ECONOMIES	July 5 <sup>th</sup>	14.10-15.50	23
	Parallel Session 3	Room: N16	
INNOVATION IN DEVELOPING AND EMERGING ECONOMIES	July 5 <sup>th</sup>	16.20-18.25	27
	Parallel Session 4	Room: N18	
INNOVATION POLICY FOR REGIONS AND COUNTRIES	July 4 <sup>th</sup>	16.15-18.20	15
	Parallel Session 1	Room: N14	
INNOVATION POLICY FOR REGIONS AND COUNTRIES	July 5 <sup>th</sup>	11.30-13.10	19
	Parallel Session 2	Room: N19	
INNOVATION POLICY FOR REGIONS AND COUNTRIES	July 5 <sup>th</sup>	14.10-15.50	23
	Parallel Session 3	Room: N02	
INNOVATION POLICY FOR REGIONS AND COUNTRIES	July 5 <sup>th</sup>	16.20-18.25	27
	Parallel Session 4	Room: N19	
MAPPING THE TRANSITION OF REGIONS TOWARDS	July 6 <sup>th</sup>	13.40-15.20	34
ENVIRONMENTAL AND SOCIO- ECONOMIC SUSTAINABILITY	Parallel Sessions 6	Room: N18	
MEET THE AUTHORS	July 4 <sup>th</sup>	16.15-18.20	16
	Parallel Session 1	Room: N02	
MIGRATION, GLOBALIZATION AND THE KNOWLEDGE	July 4 <sup>th</sup>	16.15-18.20	15
ECONOMY	Parallel Session 1	Room: N19	
MIGRATION, GLOBALIZATION AND THE KNOWLEDGE	July 5 <sup>th</sup>	11.30-13.10	19
ECONOMY	Parallel Session 2	Room: N16	
MIGRATION, GLOBALIZATION AND THE KNOWLEDGE	July 5 <sup>th</sup>	14.10-15.50	23
ECONOMY	Parallel Session 3	Room: N12	
MIGRATION, GLOBALIZATION AND THE KNOWLEDGE	July 5 <sup>th</sup>	16.20-18.25	27
ECONOMY	Parallel Session 4	Room: N01	
MOBILITY OF WORKERS, RELATEDNESS AND THE	July 5 <sup>th</sup>	11.30-13.10	20
GEOGRAPHY OF INNOVATION	Parallel Session 2	Room: N01	
MOBILITY OF WORKERS, RELATEDNESS AND THE	July 5 <sup>th</sup>	14.10-15.50	24
GEOGRAPHY OF INNOVATION	Parallel Session 3	Room: N18	
MOBILITY OF WORKERS, RELATEDNESS AND THE	July 6 <sup>th</sup>	11.00-12.40	31
GEOGRAPHY OF INNOVATION	Parallel Session 5	Room: N15	
PATHWAYS TO INCLUSIVE LABOUR MARKETS PILLARS	July 4 <sup>th</sup>	16.15-18.20	15
	Parallel Session 1	Room: N18	
PATHWAYS TO INCLUSIVE LABOUR MARKETS PILLARS	July 5 <sup>th</sup>	11.30-13.10	18
	Parallel Session 2	Room: N03	
REGIONAL INNOVATION POLICY AND PRACTICE: THE ROLE	July 5 <sup>th</sup>	11.30-13.10	20
OF DEMAND-SIDE INTERVENTIONS	Parallel Session 2	Room: N17	

SESSION TITLE	Date	TIME/ROOM	PAGE
RENEWABLE ENERGY CLUSTERS AND DISTRICTS: PATTERNS, STRENGTHS, DIFFERENCES IN A WORLD IN	July 5 <sup>th</sup> Parallel Session 2	11.30-13.10 Room: N18	20
TRANSITION			
RESPONSIBLE INNOVATION, SOCIAL INNOVATION AND INCLUSIVE GROWTH	July 5 <sup>th</sup> Parallel Session 4	16.20-18.25 Room: N12	28
RESPONSIBLE INNOVATION, SOCIAL INNOVATION AND INCLUSIVE GROWTH	July 6 <sup>th</sup> Parallel Session 5	11.00-12.40 Room: N01	31
SMART SPECIALISATION AND INTERREGIONAL COLLABORATION	July 5 <sup>th</sup> Parallel Session 2	11.30-13.10 Room: N02	21
SMART SPECIALISATION AND INTERREGIONAL COLLABORATION	July 5 <sup>th</sup> Parallel Session 3	14.10-15.50 Room: N01	24
SPATIAL DYNAMICS OF INNOVATION NETWORKS	July 6 <sup>th</sup> Parallel Session 5	11.00-12.40 Room: N16	32
SPATIAL DYNAMICS OF INNOVATION NETWORKS	July 6 <sup>th</sup> Parallel Sessions 6	13.40-15.20 Room: N13	34
THE GEOGRAPHY OF CREATIVE ACTIVITIES AND INDUSTRIES		11.00-12.40 Room: N11	32
THE GEOGRAPHY OF CREATIVE ACTIVITIES AND INDUSTRIES	July 6 <sup>th</sup> Parallel Sessions 6	13.40-15.20 Room: N11	35
THE GEOGRAPHY OF ENVIRONMENTAL SUSTAINABILITY	July 5 <sup>th</sup>	14.10-15.50	24
AND TECHNOLOGICAL TRANSFORMATIONS: OPPORTUNITIES AND CHALLENGES FOR REGIONS AND TERRITORIES	Parallel Session 3	Room: N11	
THE GEOGRAPHY OF ENVIRONMENTAL SUSTAINABILITY AND TECHNOLOGICAL TRANSFORMATIONS: OPPORTUNITIES AND CHALLENGES FOR REGIONS AND TERRITORIES	July 5 <sup>th</sup> Parallel Session 4	16.20-18.25 Room: N11	28
THE MULTI-SCALAR GEOGRAPHY OF SUSTAINABILITY TRANSITIONS: EXPLORING INTERFACES BETWEEN SECTORAL AND REGIONAL INNOVATION DYNAMICS	July 4 <sup>th</sup> Parallel Session 1	16.15-18.20 Room: N01	16
THE MULTI-SCALAR GEOGRAPHY OF SUSTAINABILITY TRANSITIONS: EXPLORING INTERFACES BETWEEN SECTORAL AND REGIONAL INNOVATION DYNAMICS	July 5 <sup>th</sup> Parallel Session 3	14.10-15.50 Room: N13	25
THE MULTI-SCALAR GEOGRAPHY OF SUSTAINABILITY TRANSITIONS: EXPLORING INTERFACES BETWEEN SECTORAL AND REGIONAL INNOVATION DYNAMICS	July 5 <sup>th</sup> Parallel Session 4	16.20-18.25 Room: N14	28
TRANSFORMATIVE REGIONAL RESILIENCE AND INNOVATION	July 5 <sup>th</sup> Parallel Session 4	16.20-18.25 Room: N15	29
TRANSFORMATIVE REGIONAL RESILIENCE AND INNOVATION	July 6 <sup>th</sup> Parallel Session 5	11.00-12.40 Room: N02	32
UNIVERSITIES AND THE GEOGRAPHY OF SCIENCE AND INNOVATION	July 5 <sup>th</sup> Parallel Session 3	14.10-15.50 Room: N19	25
UNIVERSITIES AND THE GEOGRAPHY OF SCIENCE AND INNOVATION	July 5 <sup>th</sup> Parallel Session 4	16.20-18.25 Room: N02	29
UNIVERSITIES AND THE GEOGRAPHY OF SCIENCE AND INNOVATION	July 6 <sup>th</sup> Parallel Session 5	11.00-12.40 Room: N19	33
UNIVERSITIES AND THE GEOGRAPHY OF SCIENCE AND INNOVATION	July 6 <sup>th</sup> Parallel Sessions 6	13.40-15.20 Room: N16	35
URBAN AGGLOMERATIONS, EXTERNALITIES AND INNOVATION	July 6 <sup>th</sup> Parallel Sessions 6	13.40-15.20 Room: N17	35

### PROGRAM OVERVIEW

MONDAY	<b>4</b> <sup>™</sup> JULY 2022
9.00-16.15	PLENARY SESSION   AULA MAGNA (Röntgen building)
9.00	Registration
13.30 - 13.45	WELCOME SPEECHES
13.45- 15.45	PLENARY SESSION – CHAIR: Francesco Lissoni
	<b>KEYNOTE</b> – Professor Raquel Ortega Argiles "Levelling up through R&D? - UK
	evidence"
	<b>KEYNOTE</b> – Professor Matt Marx "How does the local supply of scientists and
	inventors impact entrepreneurship and innovation?"
15.45 – 16.15	Coffee Break
16.15 – 18.20	PARALLEL SESSION 1 (Sraffa 13 Building)
18.45 – 20.30	WELCOME COCKTAIL (Röntgen building)
TUESDAY	5 <sup>TH</sup> JULY 2022
8.00-11.30	PLENARY SESSION   AULA MAGNA (Röntgen building)
8.00	Registration
9.00 – 11.00	PLENARY SESSION – CHAIR: Ron Boschma
	KEYNOTE – Professor Meghan MacGarvie "International Mobility of
	Researchers: Policy Impacts and Implications for Knowledge Creation and
	Diffusion"
	KEYNOTE – Professor Thomas Kemeney "Innovation and spatial income
	disparities"
11.00 – 11.30	Coffee Break
11.30 – 18.25	PARALLEL SESSIONS (Sraffa 13 building)
11.30 – 13.10	PARALLEL SESSION 2
<b>11.30 – 13.10</b> 13.10 – 14.10	PARALLEL SESSION 2 Lunch
13.10 – 14.10 <b>14.10 – 15.50</b>	Lunch PARALLEL SESSION 3
13.10 – 14.10 <b>14.10 – 15.50</b> 15.50 – 16.20	Lunch PARALLEL SESSION 3 Coffee Break
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25	Lunch PARALLEL SESSION 3 Coffee Break PARALLEL SESSION 4
13.10 – 14.10 <b>14.10 – 15.50</b> 15.50 – 16.20	Lunch PARALLEL SESSION 3 Coffee Break
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25	Lunch PARALLEL SESSION 3 Coffee Break PARALLEL SESSION 4 GALA DINNER (Röntgen building)
13.10 – 14.10 <b>14.10 – 15.50</b> 15.50 – 16.20 <b>16.20 – 18.25</b> <b>20.00 – 23.00</b>	Lunch PARALLEL SESSION 3 Coffee Break PARALLEL SESSION 4 GALA DINNER (Röntgen building)
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25 20.00 – 23.00 WEDNESDAY	Lunch PARALLEL SESSION 3 Coffee Break PARALLEL SESSION 4 GALA DINNER (Röntgen building)
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25 20.00 – 23.00 WEDNESDAY 8.30 – 15.50	Lunch  PARALLEL SESSION 3  Coffee Break  PARALLEL SESSION 4  GALA DINNER (Röntgen building)  6TH JULY 2022  PARALLEL SESSIONS (Sraffa 13 building)
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25 20.00 – 23.00 WEDNESDAY 8.30 – 15.50 8.30	Lunch PARALLEL SESSION 3 Coffee Break PARALLEL SESSION 4 GALA DINNER (Röntgen building)  6TH JULY 2022 PARALLEL SESSIONS (Sraffa 13 building) Registration
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25 20.00 – 23.00 WEDNESDAY 8.30 – 15.50 8.30	Lunch  PARALLEL SESSION 3  Coffee Break  PARALLEL SESSION 4  GALA DINNER (Röntgen building)  6TH JULY 2022  PARALLEL SESSIONS (Sraffa 13 building)  Registration  PARALLEL POLICY SESSION 1 ROOM NO1
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25 20.00 – 23.00 WEDNESDAY 8.30 – 15.50 8.30	Lunch PARALLEL SESSION 3 Coffee Break PARALLEL SESSION 4 GALA DINNER (Röntgen building)  6TH JULY 2022 PARALLEL SESSIONS (Sraffa 13 building) Registration PARALLEL POLICY SESSION 1 ROOM NO1 Green transition in Europe and recovery innovation policy
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25 20.00 – 23.00 WEDNESDAY 8.30 – 15.50 8.30	Lunch PARALLEL SESSION 3 Coffee Break PARALLEL SESSION 4 GALA DINNER (Röntgen building)  6 <sup>TH</sup> JULY 2022 PARALLEL SESSIONS (Sraffa 13 building) Registration PARALLEL POLICY SESSION 1 ROOM NO1 Green transition in Europe and recovery innovation policy Speakers: Prof. Bernard Truffer; Dr. Lucia Cusmano; Dr Clara Poletti
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25 20.00 – 23.00 WEDNESDAY 8.30 – 15.50 8.30	Lunch PARALLEL SESSION 3 Coffee Break PARALLEL SESSION 4 GALA DINNER (Röntgen building)  6 <sup>TH</sup> JULY 2022 PARALLEL SESSIONS (Sraffa 13 building) Registration PARALLEL POLICY SESSION 1 ROOM N01 Green transition in Europe and recovery innovation policy Speakers: Prof. Bernard Truffer; Dr. Lucia Cusmano; Dr Clara Poletti Moderator: Prof. Valentina Bosetti
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25 20.00 – 23.00 WEDNESDAY 8.30 – 15.50 8.30	Lunch PARALLEL SESSION 3 Coffee Break PARALLEL SESSION 4 GALA DINNER (Röntgen building)  6 <sup>TH</sup> JULY 2022 PARALLEL SESSIONS (Sraffa 13 building) Registration PARALLEL POLICY SESSION 1 ROOM N01 Green transition in Europe and recovery innovation policy Speakers: Prof. Bernard Truffer; Dr. Lucia Cusmano; Dr Clara Poletti Moderator: Prof. Valentina Bosetti PARALLEL POLICY SESSION 2 ROOM N02
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25 20.00 – 23.00 WEDNESDAY 8.30 – 15.50 8.30	Lunch PARALLEL SESSION 3 Coffee Break PARALLEL SESSION 4 GALA DINNER (Röntgen building)  6 <sup>TH</sup> JULY 2022 PARALLEL SESSIONS (Sraffa 13 building) Registration PARALLEL POLICY SESSION 1 ROOM N01 Green transition in Europe and recovery innovation policy Speakers: Prof. Bernard Truffer; Dr. Lucia Cusmano; Dr Clara Poletti Moderator: Prof. Valentina Bosetti PARALLEL POLICY SESSION 2 ROOM N02 Innovation diffusion session
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25 20.00 – 23.00 WEDNESDAY 8.30 – 15.50 8.30	Lunch  PARALLEL SESSION 3  Coffee Break  PARALLEL SESSION 4  GALA DINNER (Röntgen building)  6 <sup>TH</sup> JULY 2022  PARALLEL SESSIONS (Sraffa 13 building)  Registration  PARALLEL POLICY SESSION 1 ROOM NO1  Green transition in Europe and recovery innovation policy  Speakers: Prof. Bernard Truffer; Dr. Lucia Cusmano; Dr Clara Poletti  Moderator: Prof. Valentina Bosetti  PARALLEL POLICY SESSION 2 ROOM NO2  Innovation diffusion session  Speakers: Prof. Maria Savona; Prof. Marco Taisch; Prof. Rolf Sternberg; Dr.
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25 20.00 – 23.00 WEDNESDAY 8.30 – 15.50 8.30	Lunch  PARALLEL SESSION 3  Coffee Break  PARALLEL SESSION 4  GALA DINNER (Röntgen building)  6TH JULY 2022  PARALLEL SESSIONS (Sraffa 13 building)  Registration  PARALLEL POLICY SESSION 1 ROOM NO1  Green transition in Europe and recovery innovation policy  Speakers: Prof. Bernard Truffer; Dr. Lucia Cusmano; Dr Clara Poletti  Moderator: Prof. Valentina Bosetti  PARALLEL POLICY SESSION 2 ROOM NO2  Innovation diffusion session  Speakers: Prof. Maria Savona; Prof. Marco Taisch; Prof. Rolf Sternberg; Dr.  Denisa Perrin; Dr. Linda Randall
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25 20.00 – 23.00 WEDNESDAY 8.30 – 15.50 8.30 9.00 – 10.30	Lunch  PARALLEL SESSION 3  Coffee Break  PARALLEL SESSION 4  GALA DINNER (Röntgen building)  6 <sup>TH</sup> JULY 2022  PARALLEL SESSIONS (Sraffa 13 building)  Registration  PARALLEL POLICY SESSION 1 ROOM N01  Green transition in Europe and recovery innovation policy  Speakers: Prof. Bernard Truffer; Dr. Lucia Cusmano; Dr Clara Poletti  Moderator: Prof. Valentina Bosetti  PARALLEL POLICY SESSION 2 ROOM N02  Innovation diffusion session  Speakers: Prof. Maria Savona; Prof. Marco Taisch; Prof. Rolf Sternberg; Dr.  Denisa Perrin; Dr. Linda Randall  Moderator: Dr. Rudiger Ahrend
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25 20.00 – 23.00 WEDNESDAY 8.30 – 15.50 8.30 9.00 – 10.30	Lunch PARALLEL SESSION 3 Coffee Break PARALLEL SESSION 4 GALA DINNER (Röntgen building)  6TH JULY 2022 PARALLEL SESSIONS (Sraffa 13 building) Registration PARALLEL POLICY SESSION 1 ROOM N01 Green transition in Europe and recovery innovation policy Speakers: Prof. Bernard Truffer; Dr. Lucia Cusmano; Dr Clara Poletti Moderator: Prof. Valentina Bosetti PARALLEL POLICY SESSION 2 ROOM N02 Innovation diffusion session Speakers: Prof. Maria Savona; Prof. Marco Taisch; Prof. Rolf Sternberg; Dr. Denisa Perrin; Dr. Linda Randall Moderator: Dr. Rudiger Ahrend Coffee Break
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25 20.00 – 23.00 WEDNESDAY 8.30 – 15.50 8.30 9.00 – 10.30	Lunch PARALLEL SESSION 3 Coffee Break PARALLEL SESSION 4 GALA DINNER (Röntgen building)  6TH JULY 2022 PARALLEL SESSIONS (Sraffa 13 building) Registration PARALLEL POLICY SESSION 1 ROOM NO1 Green transition in Europe and recovery innovation policy Speakers: Prof. Bernard Truffer; Dr. Lucia Cusmano; Dr Clara Poletti Moderator: Prof. Valentina Bosetti PARALLEL POLICY SESSION 2 ROOM NO2 Innovation diffusion session Speakers: Prof. Maria Savona; Prof. Marco Taisch; Prof. Rolf Sternberg; Dr. Denisa Perrin; Dr. Linda Randall Moderator: Dr. Rudiger Ahrend Coffee Break PARALLEL SESSION 5
13.10 – 14.10 14.10 – 15.50 15.50 – 16.20 16.20 – 18.25 20.00 – 23.00 WEDNESDAY 8.30 – 15.50 8.30 9.00 – 10.30 10.30 – 11.00 11.00 – 12.40 12.40 – 13.40	Lunch  PARALLEL SESSION 3  Coffee Break  PARALLEL SESSION 4  GALA DINNER (Röntgen building)  6 <sup>TH</sup> JULY 2022  PARALLEL SESSIONS (Sraffa 13 building)  Registration  PARALLEL POLICY SESSION 1 ROOM NO1  Green transition in Europe and recovery innovation policy  Speakers: Prof. Bernard Truffer; Dr. Lucia Cusmano; Dr Clara Poletti  Moderator: Prof. Valentina Bosetti  PARALLEL POLICY SESSION 2 ROOM NO2  Innovation diffusion session  Speakers: Prof. Maria Savona; Prof. Marco Taisch; Prof. Rolf Sternberg; Dr.  Denisa Perrin; Dr. Linda Randall  Moderator: Dr. Rudiger Ahrend  Coffee Break  PARALLEL SESSION 5  Lunch

## PARALLEL SESSIONS PROGRAM (Sraffa 13 building)

#### MONDAY, JULY 4TH - PARALLEL SESSION 1

## DATA AND NETWORK SCIENCE METHODS IN ECONOMIC GEOGRAPHY (16.15-18.20) – Room: N10

#### **CHAIR: Samuel Heroy**

AUTHORS	TITLE OF THE PAPER
Milad Abbasiharofteh <b>(P)</b>	Machine Learning Meets Economic Geography: Mapping the
Jan Kinne	Geography of Economic Activities
Carolina Castaldi	
Sándor Juhász <b>(P)</b>	Complex amenity mixes attract diverse visitors in cities
Youngsam Chun <b>(P)</b>	Economic Resilience of EU Regions to Localized Attacks
Hwang Junseok	
James McNerney <b>(P)</b>	The Principle of Relatedness and long-term structural change
Yang Li	
Andres Gomez-Lievano	
Frank Neffke	

## DIGITAL TECHNOLOGIES, ECO-INNOVATION AND LABOUR MARKET OUTCOMES (16.15-18.20) – Room: N12

#### **CHAIR: Silvia Massini**

AUTHORS	TITLE OF THE PAPER
Giulio Pedrini <b>(P)</b>	Education, routine, and complexity-biased Key Enabling
Roberto Antonietti	Technologies: evidence from Emilia-Romagna, Italy
Luca Cattani	
Francesca Gambarotto	
Hoda Mohamed <b>(P)</b>	Robotization and Employment Dynamics in Global Value Chains
Graf Holger	
Silvia Massini <b>(P)</b>	Changes in the skillset under the digital transformation in the UK
Mabel Sanchez	
Barrioluengo	
Dev Vencappa	
Roberta Capello <b>(P)</b>	Uneven growth opportunities from industry 4.0 and servitisation
Camilla Lenzi	across European regions

## ECONOMIC COMPLEXITY TO INFORM POLICY (16.15-18.20) – Room: N13

#### **CHAIR: Andrea Tacchella**

AUTHORS	TITLE OF THE PAPER
Andrea Tacchella (P)	Mapping Capabilities for Pollution Prevention and Control
Robert Marschinski	
Deyu Li <b>(P)</b>	Climbing the global value chain ladder: the relationship between
Kavita Surana	manufacturing capabilities, demand, and the complexity of wind
Shengjun Zhu	industry across Chinese regions
Laura Diaz Anadon	
Francesco de Cunzo <b>(P)</b>	The trickle down from environmental innovation to productive
Angelica Sbardella	complexity
Alberto Petri	
Andrea Zaccaria	
Muhammed Yildirim <b>(P)</b>	Sorting, Matching and Economic Complexity

## ENTREPRENEURIAL ECOSYSTEMS AND THE ROLE OF PLACE: FOUNDATIONS, POLICIES, AND DYNAMICS (16.15-18.20) – Room: N15

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#### CHAIR: Bernard Wurth

AUTHORS	TITLE OF THE PAPER
Balázs Páger <b>(P)</b>	Is there only one way to reach the podium? A configuration
Éva Komlósi	approach of entrepreneurship and regional development
Marcus Dejardin	
László Szerb	
Elisa Operti <b>(P)</b>	Microfoundations of entrepreneurial ecosystems: The case of the
Amit Kumar	Helsinki region
Juha Uotila	
Jip Leendertse (P)	Finding Neverland, Entrepreneurial Ecosystems for Sustainable
Frank J.van Rijnsoever	Entrepreneurship
Susann Schaefer <b>(P)</b>	Do entrepreneurial ecosystems undergo sectoral changes during their evolution? A study of industrial composition and firm locations in Tel Aviv-Jaffa, Israel

## GEOGRAPHY, ENVIRONMENT AND JUSTICE (16.15-18.20) – Room: N16

#### **CHAIR: Davide Consoli**

AUTHORS	TITLE OF THE PAPER
Elena Paglialunga <b>(P)</b>	Climate change and inequality: new evidence from a global
Andrea Coveri	perspective
Antonello Zanfei	
Gianluca Biggi <b>(P)</b>	Living in a poisonous world. The geography of inventions in the
Elisa Giuliani	pesticide industry
Arianna Martinelli	
Nils Grashof <b>(P)</b>	The dark side of green innovation? - Green transition and regional inequality in Europe
Yunxiong Li <b>(P)</b>	Spatial Dynamics of Technological Innovation and Global Trade of
Simona lammarino	Rare Metals

## GLOBALISATION OF INNOVATION AND KNOWLEDGE (16.15-18.20) – Room: N11

#### **CHAIR: Moritz Mueller**

AUTHORS	TITLE OF THE PAPER
Cristina Rujan <b>(P)</b>	Multinational Firms and Global Innovation
Anna Gumpert	
Kalina Manova	
Monika Schnitzer	
Federico Colozza <b>(P)</b>	Relatedness and Global Value Chains as drivers of new
Carlo Pietrobelli	specializations in the EU regions.
Moritz Mueller <b>(P)</b>	On the global health science response to COVID-19
Kevin Wirtz	
Pierre Pelletier	
Stefano Bianchini	
Renato Garcia <b>(P)</b>	An analysis of the effects of Foreign Direct Investment Spillovers on Regional Innovation: the role of the regional industrial structure

## GREEN AND SUSTAINABLE INNOVATION (16.15-18.20) – Room: N17

#### **CHAIR: François Perruchas**

AUTHORS	TITLE OF THE PAPER
François Perruchas <b>(P)</b>	Green women are not only from Mars: gender and eco-innovation
Susanne Bührer-Topçu	
Davide Consoli	
Nicolò Barbieri	
Richard Woolley	
Labrouche Geoffroy <b>(P)</b>	Location Determinants of Inventions in Biogas Technologies:
Simon Nadel	Evidence from France
Luis Orozco	
Eva Coll-Martínez	
Tommaso Rughi <b>(P)</b>	Knowing brown and inventing green? Incremental and radical
Julia Mazzei	innovative activities in the automotive sector
Maria Enrica Virgilito	
Sebastian Losacker <b>(P)</b>	Which green technologies diffuse across regions? Insights from
Jens Horbach	patent licensing data
Ingo Liefner	

## INNOVATION POLICY FOR REGIONS AND COUNTRIES (16.15-18.20) – Room: N14

#### **CHAIR: Antonio Vezzani**

AUTHORS	TITLE OF THE PAPER
Alessio Giustolisi <b>(P)</b>	Smart Specialisation: towards an outward looking approach
Maximilian Benner	
Michaela Trippl	
Ana Pego <b>(P)</b>	Innovation and ecosystems, a new methodology for sustainable business in cities
Antonio Vezzani <b>(P)</b>	Eco-innovation and digitalisation in Small Medium Enterprises: Does
Luca Cattani	geographical location make the difference?
Sandro Montresor	
Andrés	Innovation in regions: the policy perspective
Rodríguez-Pose <b>(P)</b>	

## MIGRATION, GLOBALIZATION AND THE KNOWLEDGE ECONOMY (16.15-18.20) – Room: N19

#### **CHAIR: Andrea Morrison**

AUTHORS	TITLE OF THE PAPER
Daniela Bolzani <b>(P)</b>	Incubation for migrant entrepreneurship: An exploration of Italian
Giulia Martinelli	incubators' approaches
Rainer Widmann <b>(P)</b>	Open-Border Policy and Knowledge Diffusion
Gabriele Cristelli	

## PATHWAYS TO INCLUSIVE LABOUR MARKETS (PILLARS) (16.15-18.20) – Room: N18

#### **CHAIR: Emilio Colombo**

AUTHORS	TITLE OF THE PAPER
Dongmiao Zhang <b>(P)</b>	The Creative Destruction of Artificial Intelligence: Evidence from US
Ron Boschma	Metropolitan Statistical Areas
Pierre-Alexandre Balland	
Emilio Colombo <b>(P)</b>	Changes of skill requirements across jobs and labour markets:
Mario Mezzanzanica	evidence from web vacancies
Fabio Mercorio	
Stefano Dughera <b>(P)</b>	Technological externalities and wage premium: new evidence from
Francesco Quatraro	Italian labor markets
Andrea Ricci	
Claudia Vittori	

THE MULTI-SCALAR GEOGRAPHY OF SUSTAINABILITY TRANSITIONS: EXPLORING INTERFACES BETWEEN SECTORAL AND REGIONAL INNOVATION DYNAMICS (16.15-18.20) – Room: N01

#### **CHAIR: Johan Miörner**

AUTHORS	TITLE OF THE PAPER
Andrea Ferloni <b>(P)</b>	Urban trajectories in the transition to Electric Vehicles: a patent-
Céline Rozenblat	based coevolutionary approach
Mehdi Bida	
Gesa Pflitsch <b>(P)</b>	Exploring multi-scalar effects on the micro-patterns of regional industrial transformations to sustainability
Juliana Barbosa <b>(P)</b>	Multi-dimensional effects of an energy technology policy: Sectorial
Nuno Bento	and territorial consequences of onshore wind in Portugal
Margarida Fontes	
Abdullah Fahimi <b>(P)</b>	Foreign actors, local institutions: the role of transnational actors in
Paul Upham	Afghanistan's energy landscape
Gesa Pflitsch	

## **MEET THE AUTHORS** (16.15-18.20) – ROOM: NO2

AUTHORS	TITLE OF THE BOOK
Anna Dabrowska <b>(P)</b>	Universities and Regional Engagement: From the Exceptional to
Tatiana lakovleva	the Everyday
Elisa Thomas	
Laila Nordstrand Berg	
Rómulo Pinheiro Paul	
Benneworth	

#### TUESDAY, JULY 5TH - PARALLEL SESSION 2

## DATA AND NETWORK SCIENCE METHODS IN ECONOMIC GEOGRAPHY (11.30-13.10) – Room: N10

#### **CHAIR: Celine Rozenblat**

AUTHORS	TITLE OF THE PAPER
Burcu Ozgun <b>(P)</b>	COVID-19 in the German News Media
Tom Brökel	
Celine Rozenblat <b>(P)</b>	Evaluating multilevel resilience of Russian urban economies 2010-
Mikhail Rogov	2019
Mehdi Bida	
Shade Shutters	
Frank van der Wouden <b>(P</b>	Impact of geographical distance on acquiring know-how through
Hyejin Youn	scientific collaboration
Balazs Lengyel <b>(P)</b>	Atypical combination of technologies in regional co-inventor
Milad Abbasiharofteh	networks
Dieter Franz Kogler	

## ECONOMIC COMPLEXITY TO INFORM POLICY (11.30-13.10) – Room: N11

#### **CHAIR: Dario Diodato**

AUTHORS	TITLE OF THE PAPER
Ghinwa Moujaes <b>(P)</b>	How does economic complexity impact local inequality across EU
	regions?
Robert Hill <b>(P)</b>	Building Economic Complexity in the South African Fibrous Plant
Caitlin Allen	Economy
Haroon Bhorat	
Christopher Rooney	
Francois Steenkamp	
Ulrich Schetter <b>(P)</b>	A Structural Ranking of Economic Complexity
Angelica Sbardella <b>(P)</b>	From organizational capabilities to corporate performances: at the
Maria Enrica VIrgillito	roots of productivity slowdown
Giovanni Dosi	
Stefano Costa	
Stefano Desantis	
Roberto Monducci	

## GEO-REFERENCED BIG DATA TO UNPACK THE GEOGRAPHY OF INNOVATION (11.30-13.10) – Room: N13

#### **CHAIR: Enrico Vanino**

AUTHORS	TITLE OF THE PAPER
Ilaria Mariotti <b>(P)</b>	Geo-referenced Big Data as a tool to explore the attractiveness of
Dante Di Matteo	the Milan suburban and peripheral areas towards remote workers
Federica Maria Rossi	
Lukas Kriesch (P)	Comprehensive Web Mining of Geo-referenced corporate data from
	freely accessible sources
Samuel Heroy <b>(P)</b>	Inequality in the distribution of amenities and its effect on urban
Isabella Loaiza	mobility
Sandy Pentland	
Neave O'Clery	

## GLOBALISATION OF INNOVATION AND KNOWLEDGE (11.30-13.10) – Room: N12

#### **CHAIR: Roberta Rabellotti**

AUTHORS	TITLE OF THE PAPER
Patrizia Casadei <b>(P)</b>	Trade shocks and global value chains: a post-Brexit investigation in
Simona lammarino	the UK textile and apparel industry'
Hans-Christian Busch (P)	Strategies to innovation and value creation in circular value chains: a
	contextual analysis of Brazilian e-waste recycling
Roberta Rabellotti <b>(P)</b>	Green foreign direct investments: do they boost clean energy
Dalila Ribaudo	innovation in multinationals' subsidiaries?
Vito Amendolagine	
Ulrich Elmer Hansen	
Rasmus Lema	

## PATHWAYS TO INCLUSIVE LABOUR MARKETS (PILLARS) (11.30-13.10) – Room: N03

#### **CHAIR: Maria Savona**

AUTHORS	TITLE OF THE PAPER
Jacopo Staccioli <b>(P)</b>	Labour-saving technologies and occupational exposure
Fabio Montobbio	
Maria Enrica Virgillito	
Marco Vivarelli	
Maria Savona <b>(P)</b>	Mapping human-machine interactions: combining in-depth
Tommaso Ciarli	technical and long term historical views
Ed Steinmueller Simone	
Vannuccini	
Florencia Jacoud <b>(P)</b>	The reallocation of employment over automation cycles: An analysis
	of European regions

## GREEN AND SUSTAINABLE INNOVATION (11.30-13.10) – Room: N14

#### **CHAIR: Massimiliano Mazzanti**

AUTHORS	TITLE OF THE PAPER
Liza Jabbour <b>(P)</b>	Green Co-Innovation along Global Value Chains: Evidence from
Robert Elliott	OECD countries
Yiran Su	
Massimiliano Mazzanti (P)	Modeling Green Knowledge Production and Environmental Policies
Antonio Musolesi	with Semiparametric Panel Data Regression models
Robert Elliott (P)	Eco-innovation and employment: A task-based analysis

## HISTORICAL ROOTS OF REGIONAL INNOVATION (11.30-13.10) – Room: N15

#### **CHAIR: Michael Fritsch**

AUTHORS	TITLE OF THE PAPER
Enno Kohlisch (P)	Policy Mix, Innovation und Digitalization of German Regions: A long-
Ann Hipp	term perspective
Jutta Günther	
Korneliusz Pylak <b>(P)</b>	A tree torn from its roots dies: With (un)related diversity, does
	knowledge begin to live?
Maria Greve <b>(P)</b>	Shades of a Socialist Legacy? Regional Innovation Activity in
Michael Fritsch	Germany 1925-2014
Michael Wyrwich	
Sergio Barbosa Martinez <b>(F</b>	The Emergence and Historical Evolution of Innovation Networks:
Patricio Sáiz	Patents, Collaboration, and Innovation Systems in the European
José L. Zofío	Periphery

## INNOVATION POLICY FOR REGIONS AND COUNTRIES (11.30-13.10) – Room: N19

#### **CHAIR: Pierre-Alexandre Balland**

AUTHORS	TITLE OF THE PAPER
Diletta Pegoraro <b>(P)</b>	Dynamics and determinants for innovation processes in a Digital
Alessandro Rossi	Innovation Hub: a Triple Helix Approach
Pierre-Alexandre Balland	Do scientific capabilities in specific domains matter for technological
(P)	diversification in European regions?
Ron Boschma	
Ron Boschma <b>(P)</b>	Do EU regions benefit from Smart Specialization principles?
David Rigby	
Christoph Roesler	
Dieter Kogler	
Pierre-Alex Balland	
Tobias Hertrich <b>(P)</b>	Classification of regions according to the dominant innovation
Thomas Brenner	barriers – The characteristics and stability of regional archetypes in Germany

## MIGRATION, GLOBALIZATION AND THE KNOWLEDGE ECONOMY (11.30-13.10) – Room: N16

#### **CHAIR: Stefano Breschi**

AUTHORS	TITLE OF THE PAPER
Benjamin Cornejo-Costas (P)	Immigration restrictions and their impact on novel and impactful innovation in the United States
Christian Chacua <b>(P)</b>	The Changing Geography of American Academic Careers
Frank Neffke	Throughout the 20th Century
Claudio Fassio <b>(P)</b>	International students in Sweden: what drives their careers after
loana Igna	graduation?

## MOBILITY OF WORKERS, RELATEDNESS AND THE GEOGRAPHY OF INNOVATION (11.30-13.10) – Room: N01

#### **CHAIR: Koen Frenken**

AUTHORS	TITLE OF THE PAPER
Tijl Hendrich <b>(P)</b>	Entries and Regional Growth: The Role of Relatedness
Jennifer Olsen	
Judith Bayer	
Orsa Kekezi <b>(P)</b>	Plant relocations and returns to commuting
Mikaela Backman	
Koen Frenken (P)	Does Academic Inbreeding Affect Scientific Success?
Giovanna Capponi	

## REGIONAL INNOVATION POLICY AND PRACTICE: THE ROLE OF DEMAND-SIDE INTERVENTIONS

(11.30-13.10) – Room: N17

#### **CHAIR: Elvira Uyarra**

AUTHORS	TITLE OF THE PAPER
Dylan Henderson <b>(P)</b>	Putting missions in place: challenge-led innovation in Wales
Kevin Morgan	
Rick Delbridge	
Elvira Uyarra <b>(P)</b>	Shaping markets for innovation through local public procurement: A framework.
Maria Merisalo <b>(P)</b>	How to assess the societal impacts of public procurement? A spatial
Kirsi Hyytinen	view to National Public Procurement Strategy of Finland.
Juha Oksanen	
Elvira Uyarra	
Raquel Ortega-Argiles <b>(P)</b>	Does UK research collaboration in R&I promote levelling-up? An
Pei-Yu Yuan	analysis of UKRI funding between 2014-2021

RENEWABLE ENERGY CLUSTERS AND DISTRICTS: PATTERNS, STRENGTHS, DIFFERENCES IN A WORLD IN TRANSITION (11.30-13.10) – Room: N18

#### **CHAIR: Marcello Graziano**

AUTHORS	TITLE OF THE PAPER
Laura Victoria Brock <b>(P)</b>	Regional Factors Contributing to the Emergence of the Green
Yuri Campbell	Hydrogen Economy
Marcello Graziano <b>(P)</b>	Comparing and combining regional and sustainability transitions
Christina Hoicka	approaches to analyse the emergence of clusters of renewable and
Yuxu Zhao	low-carbon innovations
Max-Peter Menzel <b>(P)</b>	The role of markets in transformations of regional industries – the
Jack Harris	example of wind energy in Germany

## SMART SPECIALISATION AND INTERREGIONAL COLLABORATION (11.30-13.10) – Room: N02

#### **CHAIR: Donato Iacobucci**

AUTHORS	TITLE OF THE PAPER
Fabrizio Fusillo <b>(P)</b>	Regional technological diversification and global R&D networks: be
Chiara Burlina	related, but also connected
Sandro Montresor	
Alessandro Palma	
Jason Deegan <b>(P)</b>	Lost in translation – Entrepreneurial discovery processes in a non-EU
Adrian Prigel Jordahl	state, A case study of three Norwegian regions
Richard Reistad	
Marte C W Solheim	
Roberta Ruggeri <b>(P)</b>	European Strategy for the Adriatic-Ionian macro region and Smart
	Specialisation Strategy: overlapping and synergies

#### TUESDAY, JULY 5TH - PARALLEL SESSION 3

## CLUSTERS, INDUSTRIAL DISTRICTS AND REGIONAL INNOVATION SYSTEMS (14.10-15.50) – Room: N14

#### **CHAIR: Stefano Basilico**

AUTHORS	TITLE OF THE PAPER
Masoumeh Ghorbani <b>(P)</b>	The Location of Start-ups in Germany: The relevance of clusters, industrial variety and innovation
	<u> </u>
Stefano Basilico <b>(P)</b>	The role of gatekeepers in knowledge networks: a regional
	comparison
Fatih Celebioglu <b>(P)</b>	The Causal Interaction Between Innovations, Specialisation, Start-
Thomas Brenner	Ups, Qualifications, and Subsidies: A Spatial VAR Analysis for Various Industries in Germany

## DATA AND NETWORK SCIENCE METHODS IN ECONOMIC GEOGRAPHY (14.10-15.50) – Room: N03

#### **CHAIR: Neave O'Clery**

AUTHORS	TITLE OF THE PAPER
Zoltán Elekes <b>(P)</b>	Robust skill-relatedness networks of industries make resilient regions
Frank Neffke <b>(P)</b> Yang Li	Assessing the importance of relatedness in regional development: in search of the right specification.
Neave O'Clery <b>(P)</b>	Connecting up embedded knowledge across Northern Powerhouse cities

## ECONOMIC COMPLEXITY TO INFORM POLICY (14.10-15.50) – Room: N10

#### **CHAIR: Lorenzo Napolitano**

AUTHORS	TITLE OF THE PAPER
Dario Diodato <b>(P)</b>	A Simple Theory of Economic Growth at the Extensive Industry
Ulrich Schetter	Margin
Lorenzo Napolitano (P)	Regional Technological Capabilities and Green Opportunities in
Nicolò Barbieri	Europe
Davide Consoli	
François Perruchas	
Emanuele Pugliese	
Angelica Sbardella	
Santiago Perez-	Economic complexity, Environmental Quality and Income Equality: A
Balsalobre <b>(P)</b>	New Trilemma for Regions?
Rocio Marco	
Carlos Llano	
Giambattista Albora <b>(P)</b>	Behind the Italian Regional Divide: An Economic Fitness and
Pasquale Scaramozzino	Complexity Perspective
Luciano Pietronero	
Andrea Zaccaria	

## ENTREPRENEURIAL ECOSYSTEMS AND THE ROLE OF PLACE: FOUNDATIONS, POLICIES, AND DYNAMICS

(14.10-15.50) - Room: N17

#### **CHAIR: Frank van Rijnsoever**

AUTHORS	TITLE OF THE PAPER
Arnauld Bessagnet <b>(P)</b>	Unraveling the multi-scalar and evolutionary forces of
Jerome Vicente	entrepreneurial ecosystems: A historical event analysis applied to IoT
Joan Crespo	Valley
Frank van Rijnsoever <b>(P)</b>	Avenues for Incubators to Direct Entrepreneurial Ecosystems toward
Frank van Rijnsoever <b>(P)</b>	Avenues for Incubators to Direct Entrepreneurial Ecosystems toward Sustainability
Frank van Rijnsoever <b>(P)</b> Lennard Stolz <b>(P)</b>	

## GLOBALISATION OF INNOVATION AND KNOWLEDGE (14.10-15.50) – Room: N15

#### **CHAIR: Randolph Luca Bruno**

AUTHORS	TITLE OF THE PAPER
Ekkehard Ernst <b>(P)</b>	Al Efficiency Index: Identifying Regulatory and Policy Constraints for
Saurabh Mishra	Resilient National AI Ecosystems
Enrico Vanino <b>(P)</b>	From Ideas to Trade: Uneven technological capabilities and
Carolina Pan	comparative advantage
Sergio Petralia	
Fernando Yu	
Randolph Luca Bruno <b>(P)</b>	The identification of time-invariant variables in panel data model:
Sara Amoroso	exploring the nexus between appropriability and productivity in
Laura Magazzini	highly innovative and globalised companies

### INNOVATION IN DEVELOPING AND EMERGING ECONOMIES (14.10-15.50) – Room: N16

### **CHAIR: Davide Vurchio**

AUTHORS	TITLE OF THE PAPER
Davide Vurchio <b>(P)</b>	New export specializations, structural transformation and path-
Nicola Daniele Coniglio	dependence: A Product-Level Analysis
Jefferson Galetti <b>(P)</b>	Cognitive proximity, knowledge network structure and MSEs'
Fiona Tregenna	innovation: evidence from Johannesburg
Nanditha Mathew <b>(P)</b>	Positioning firms along the capabilities ladder
Alex Coad	
Emanuele Pugliese	
Augusto dos Santos Pereira <b>(P)</b>	Are Brazilian metropolitan Areas prepared to navigate the ongoing techno-economic wave? Evidence from Curitiba

# INNOVATION POLICY FOR REGIONS AND COUNTRIES (14.10-15.50) – Room: N02

### **CHAIR: Colin Wessendorf**

AUTHORS	TITLE OF THE PAPER
Colin Wessendorf <b>(P)</b>	The drivers of the regional integration of Key Enabling Technologies (KETs)
Delio Lucena-Piquero <b>(P)</b>	Do R&D diversification policies change the cognitive structure of knowledge networks? Evidence from France using a mesostructural approach
Iryna Fil Kristensen <b>(P)</b> Rhiannon Pugh Markus Grillitsch	Leadership and governance challenges in delivering place-based transformation to metropolitan areas
Maria Lindqvist Shannon Tran <b>(P)</b> Caroline Fry John Lynham	Ranking Researchers: Evidence from Indonesia

### MIGRATION, GLOBALIZATION AND THE KNOWLEDGE ECONOMY (14.10-15.50) – Room: N12

### **CHAIR: Wolf-Hendrik Uhlbach**

AUTHORS	TITLE OF THE PAPER
Adriana Pinate <b>(P)</b>	The heterogenous effects of migration on innovation: Evidence
Alessandra Faggian	from Italy
Claudio Di Berardino	
Carolina Castaldi	
Elena Heller <b>(P)</b>	Regional inclusiveness: institutional factors and the innovative
Paula Prenzel	effects of cultural diversity in European regions
Wolf-Hendrik Uhlbach <b>(P)</b>	In search of new knowledge: When does hiring foreign R&D
Paul-Emmanuel Anckaert	workers foster exploration?

### MOBILITY OF WORKERS, RELATEDNESS AND THE GEOGRAPHY OF INNOVATION (14.10-15.50) – Room: N18

#### **CHAIR: Chiara Franco**

TITLE OF THE PAPER
Co-worker networks and firm performance
Complementarity, knowledge similarity, and locational requirements
in regional technological diversification
Do migrants move along the routes of technological proximity?
Evidence from Spanish NUTS3 regions

## SMART SPECIALISATION AND INTERREGIONAL COLLABORATION (14.10-15.50) – Room: N01

### **CHAIR: Ron Boschma**

AUTHORS	TITLE OF THE PAPER
David Fernández	Promoting inter-regional cooperation across S3 strategies: The case
Guerrero <b>(P)</b>	of Blue Bioeconomy Sustainable Development Challenges in the
Lourdes Reig Puig	Mediterranean
Martin Federico Alba	
Xavier Díaz Ruiz	
Massimo Riccaboni <b>(P)</b>	Exploratory Innovation in Cities: Inter-city ties and Technological
Samuel Edet	relatedness
Rene Belderbos	
Stefan Apostol <b>(P)</b>	More Than Machinery, We Need Humanity-The Importance of a
	Humanised Governance Quality Measurement For Regional
	Innovation And Smart Specialisation Policies

THE GEOGRAPHY OF ENVIRONMENTAL SUSTAINABILITY AND TECHNOLOGICAL TRANSFORMATIONS: OPPORTUNITIES AND CHALLENGES FOR REGIONS AND TERRITORIES (14.10-15.50) – Room: N11

#### **CHAIR: Sandro Montresor**

AUTHORS	TITLE OF THE PAPER
Elisa Panzera (P)	Regional servitisation patterns in Europe
Roberta Capello	
Camilla Lenzi	
Matthijs Janssen <b>(P)</b>	Boundary spanning R&D collaboration: Key Enabling Technologies
Milad Abbasiharofteh	and Missions as alleviators of proximity effects?
Shuaijun Xue <b>(P)</b>	From a green era to a green digital era? Technological
	transformation in the Shanghai electric vehicle industry
Stefano Bianchini <b>(P)</b>	The two make a pair? Digital and green transition in European
Giacomo Damioli	regions and their impact on greenhouse gas emissions
Claudia Ghisetti	

# THE MULTI-SCALAR GEOGRAPHY OF SUSTAINABILITY TRANSITIONS: EXPLORING INTERFACES BETWEEN SECTORAL AND REGIONAL INNOVATION DYNAMICS (14.10-15.50) – Room: N13

#### **CHAIR: Christian Binz**

AUTHORS	TITLE OF THE PAPER
Hendrik Hansmeier <b>(P)</b>	Regional perspectives on eco-innovation actors: Insights from the transport sector in Germany
Johan Miörner <b>(P)</b>	The diffusion of global regime rationalities in space – Insights from a
Christian Binz	failed transition in San Diego's water sector
Jonas Heiberg	
Simone Strambach <b>(P)</b> Tatjana Mauthofer	Shaping institutions transnationally- multi-scalar dynamics in the emergence of social business

# UNIVERSITIES AND THE GEOGRAPHY OF SCIENCE AND INNOVATION (14.10-15.50) – Room: N19

### **CHAIR: Shiri Breznitz**

AUTHORS	TITLE OF THE PAPER
Kevin Chandra <b>(P)</b>	Choosing the right one: university-industry collaboration and
Xun Wu	impacts on scientific and technological advances
Mabel Sanchez-	Student start-ups as knowledge spillover: contextual influences from
Barrioluengo (P)	the university and regional ecosystems
Chiara Marzocchi	
Fumi Kitagawa	
Shiri Breznitz <b>(P)</b>	The Economic Contribution of Students to the Regional Economy
Qiantao Zhang	
Shauna Brail <b>(P)</b>	Unintentional Innovation: The Role of University Research in Urban
Shiri Breznitz	Innovation

### TUESDAY, JULY 5TH – PARALLEL SESSION 4

### CLUSTERS, INDUSTRIAL DISTRICTS AND REGIONAL INNOVATION SYSTEMS (16.20-18.25) – Room: N16

#### **CHAIR: Stefania Oliva**

AUTHORS	TITLE OF THE PAPER
Nimita Pandey <b>(P)</b>	Regional innovation, Global Linkages and Sustainable Development:
	A Case of Biotechnology Cluster in Hyderabad
Sonja zu Jeddeloh <b>(P)</b>	Determinants of the location of bioeconomic patents – A municipal-
von Sidonia Proff	level analysis for ten subcategories in Germany
Thomas Brenner	
Giedre Dzemydaite <b>(P)</b>	Production efficiency of advanced technology-generating sectors in
	the EU: stochastic frontier analysis of industry-level panel data
Luciana Lazzeretti <b>(P)</b>	The impact of Artificial Intelligence on the social science: the
Stefania Oliva	evolution of the studies in Regional Science according to a
Niccolò Innocenti	bibliometric approach
Martina Nannelli	

### ECONOMIC COMPLEXITY TO INFORM POLICY (16.20-18.25) – Room: N10

### **CHAIR: Andrea Zaccaria**

AUTHORS	TITLE OF THE PAPER
Andrea Zaccaria <b>(P)</b>	Relatedness in the Era of Machine Learning
Andrea Tacchella	
Luciano Pietronero	
Marco Miccheli	
Giambattista Albora	
Aurelio Patelli <b>(P)</b>	Geography of Science: Competitiveness and Inequality
Lorenzo Napolitano	
Giulio Cimini	
Andrea Gabrielli	
Bernardo Caldarola <b>(P)</b>	Informal to Formal Industrial Agglomeration in Ghana: the Role of
	Geography, Relatedness and Complexity
Emanuele Pugliese <b>(P)</b>	Quantitative Instruments for Regional Industrial Strategies
Dario Diodato	
Lorenzo Napolitano	
Andrea Tacchella	

# **EVOLUTION OF COMPLEXITY IN TIME AND SPACE** (16.20-18.25) – Room: N13

### **CHAIR: Matte Hartog**

AUTHORS	TITLE OF THE PAPER
Carolin Nast <b>(P)</b>	Does Government Support Drive Complexity or does Complexity
Tom Brökel	Drive Government Support?
Lars Mewes	
Matte Hartog <b>(P)</b>	The changing geography of teamwork in innovation, 1850 - 1940
Silje Haus-Reve <b>(P)</b>	Diversity, complexity or relatedness of occupations and its effects on
Tom Brökel	regional productivity
Rune Dahl Fitjar	

### GLOBALISATION OF INNOVATION AND KNOWLEDGE (16.20-18.25) – Room: N17

### **CHAIR: Carlo Pietrobelli**

AUTHORS	TITLE OF THE PAPER
Carlo Pietrobelli <b>(P)</b>	Regional capabilities in a globalized world
Ron Boschma	
Federico Colozza	
Andrea Morrison	
Eduardo Hernández	Regional Task Spaces: Functional Diversification Processes
Rodríguez <b>(P)</b>	throughtout GVCs
Ron Boschma	
Andrea Morrison	
Gabriele Pellegrino <b>(P)</b>	International Patent Protection and Trade: Transaction-Level
	Evidence
Martina Pardy <b>(P)</b>	Multinationals & intra-regional innovation concentration

### INNOVATION IN DEVELOPING AND EMERGING ECONOMIES (16.20-18.25) – Room: N18

#### **CHAIR: Julio Raffo**

AUTHORS	TITLE OF THE PAPER
Antonio Soares Martins	Job displacement and routine-intensive occupations: Evidence from
Neto <b>(P)</b>	a developing country
Julio Raffo <b>(P)</b>	Innovation ecosystem and catch-up in developing countries:
Deyun Yin	evidences from Shenzhen
Jie Tang	
Lorenzo Palladini <b>(P)</b>	Innovation, institutions, and insiders
Katrin Hussinger	
Suelene Mascarini <b>(P)</b>	Regional linkages and branching: an empirical study on Brazilian
Renato Garcia	regions
Diz Mabel Marques	

### INNOVATION POLICY FOR REGIONS AND COUNTRIES (16.20-18.25) – Room: N19

### **CHAIR: Anna Dabrowska**

AUTHORS	TITLE OF THE PAPER
Isabel Cavalli <b>(P)</b>	The Dynamics of French Universities in Patent Collaboration
Charlie Joyez	Networks
Anna Dabrowska <b>(P)</b>	Plus ça change, plus c'est la même chose. A text mining analysis of
Jason Deegan	Polish regional development strategies
Cecilia Maronero <b>(P)</b>	NPEs, Patent Quality and Litigation Strategies across European
Andrea Vezzulli	Jurisdictions
Valerio Sterzi	
Pedro Llanos <b>(P)</b>	Fraunhofer centres across Europe: Effects of Technology Transfer on Regional Innovation

# MIGRATION, GLOBALIZATION AND THE KNOWLEDGE ECONOMY (16.20-18.25) – Room: N01

### **CHAIR: Francesco Lissoni**

AUTHORS	TITLE OF THE PAPER
Andrea Morrison (P)	Returnees and innovation: Evidence from Chinese public listed firms
Yibo Qiao	
Andrea Ascani	
Stefano Breschi	
Philip Verfürth <b>(P)</b>	The facilitating role of highly skilled (re-)migrants in cross-border
	knowledge transfers in multinational enterprises
Valeria Costantini	Mission-oriented innovation policies and knowledge spillovers:
Elena Paglialunga <b>(P)</b>	exploiting opportunities from skilled-workers migration network
Saverio Barabuffi	
Leone Valerio Sciabolazza	

### RESPONSIBLE INNOVATION, SOCIAL INNOVATION AND INCLUSIVE GROWTH (16.20-18.25) – Room: N12

### **CHAIR: Alina Kadyrova**

AUTHORS	TITLE OF THE PAPER
Alina Kadyrova <b>(P)</b>	Does proximity matter for socially oriented innovation? Evidence
	from five European urban areas
Carolin Ioramashvili <b>(P)</b>	Technological invention and local labour markets: Evidence from
	France, Germany and the UK
Vincenzo Mini (P)	Cities and coexistence with the pandemic phenomenon

THE GEOGRAPHY OF ENVIRONMENTAL SUSTAINABILITY AND TECHNOLOGICAL TRANSFORMATIONS: OPPORTUNITIES AND CHALLENGES FOR REGIONS AND TERRITORIES (16.20-18.25) – Room: N11

#### **CHAIR: Carolina Castaldi**

AUTHORS	TITLE OF THE PAPER
Artur Santoalha <b>(P)</b>	How can digitalization impact environmental sustainability in
Fulvio Castellacci	European regions?
Carolina Castaldi <b>(P)</b>	Greening EU regions: patterns of development between
Milad Abbasiharofteh	technological opportunities and product applications
Sergio Petralia	
Cristina Santhià <b>(P)</b>	The geography of circular economy technologies in Europe:
Fabrizio Fusillo	Evolutionary patterns and technological convergence
Francesco Quatraro	
Simone Maria	Green Technological Diversification and International Co-Inventor
Grabner <b>(P)</b>	Linkages
Nicoletta Corrocher	
Andrea Morrison	

THE MULTI-SCALAR GEOGRAPHY OF SUSTAINABILITY TRANSITIONS: EXPLORING INTERFACES BETWEEN SECTORAL AND REGIONAL INNOVATION DYNAMICS (16.20-18.25) – Room: N14

#### **CHAIR: Markus Steen**

AUTHORS	TITLE OF THE PAPER
Camilla Chlebna <b>(P)</b>	Grasping transformative regional development from a co-
Hanna Martin	evolutionary perspective – a research agenda
Jannika Mattes	
Lena Stock <b>(P)</b>	Development of new bioeconomy paths in a structurally weak
Daniel Schiller	region – an exploration into global-local dynamics of a socio-
	technical transformation
Sebastian Rohe <b>(P)</b>	Embedded or detached? The integration of companies in regional
Ricarda Schmidt-Scheele	energy transitions
Jannika Mattes	

### TRANSFORMATIVE REGIONAL RESILIENCE AND INNOVATION (16.20-18.25) – Room: N15

#### **CHAIR: Wessel Vermuelen**

AUTHORS	TITLE OF THE PAPER
Wessel Vermuelen (P)	Balanced policy approach to regional growth: Innovation,
Alexandra Tsvetkova	productivity and resilience
Bogang Jun <b>(P)</b>	The economic resilience of amenity cluster in the post-Covid city: the
Jara- Cris Figueroa	effect of relatedness on the survival of amenity shops
Donghyeon Yu	
Sania Dzalbe <b>(P)</b>	Temporality of Agency in Relation to Regional Resilience
Hane- Weijman Emelie	
Rikard Eriksson	
Xiangyu Quan <b>(P)</b>	What used to help you might harm you—The role of local
Marte Cecilie	embeddedness and collaboration to uneven resilience in times of
Wilhelmsen Solheim	crisis
Rune Dahl Fitjar	

# UNIVERSITIES AND THE GEOGRAPHY OF SCIENCE AND INNOVATION (16.20-18.25) – Room: N02

### **CHAIR: Chiara Marzocchi**

AUTHORS	TITLE OF THE PAPER
Adhen Benlahlou <b>(P)</b>	Scientific peer-effects in Cancer Research
Chiara Marzocchi <b>(P)</b>	The content evolution of codified public research in European
Gabriele Angori	universities
Ugo Rizzo	
Laura Ramaciotti	
Kwadwo Atta-Owusu <b>(P)</b>	Engaging for love of place? The role of place attachment in
Rune Dahl Fitjar	academics' regional engagement efforts
Ludovic Dibiaggio <b>(P)</b>	The Temporal Value of Local Scientific Expertise
Thai Tan Tran	
Maryann Feldman	

### WEDNESDAY, JULY 6<sup>TH</sup> – PARALLEL SESSION 5

### BARRIERS TO DIGITAL INNOVATION (11.00-12.40) – Room: N17

### **CHAIR: Simona Ciappei**

AUTHORS	TITLE OF THE PAPER
Arnauld Abreu <b>(P)</b>	The scaleup trajectory : who they hire and when
Arnauld Bessagnet	
Nhat Strøm-Andersen <b>(P)</b>	The challenges in adopting digital technologies and the case of food
	waste
Simona Ciappei <b>(P)</b>	Physician, heal thyself: the role of t-KIBS in 4.0 technology adoption
Annalisa Caloffi	
Marco Bellandi	

### CLUSTERS, INDUSTRIAL DISTRICTS AND REGIONAL INNOVATION SYSTEMS (11.00-12.40) – Room: N12

### **CHAIR: Bjorn Asheim**

AUTHORS	TITLE OF THE PAPER
Bjorn Asheim <b>(P)</b>	The potential for a biotechnology and SME based unrelated
Helen Lawton Smith	diversification in clusters of advanced agricultural production in
Jonathan Potter	Northern Thailand
Denisa Naidin <b>(P)</b>	The Luxembourgish Space Industry – Evolving Between Local and
Sabine Dörry	Global Forces
Olivier Coussi <b>(P)</b>	Territorial bricolage and political entrepreneur: the case of the
Bastien Bernela	Futuroscope leisure park ecosystem in France
Juliette Keohane <b>(P)</b>	Jeans are coming home: case study of a French re-industrialisation business model

## DIGITAL PLATFORMS FOR INNOVATIVE CREATIVE AND ENTREPRENEURIAL PRACTICES (11.00-12.40) – Room: N14

### **CHAIR: Shauna Brail**

AUTHORS	TITLE OF THE PAPER
Alica Repenning <b>(P)</b>	Creative digipreneurs and socio-technical niches: work practices of
Anna Oechslen	entrepreneuring in a platform mediated environment
Giulia Occhini <b>(P)</b>	A website-driven approach for assessing occupational segregation in
Emmanouil Tranos	the digital economy
Levi John Wolf	
Han Chu <b>(P)</b>	Placing the Platform Economy: The Emerging, Developing and
	Upgrading of Taobao Villages as a Platform-Based Place Making
	Phenomenon in China
Suntie Schmidt <b>(P)</b>	Platform Ecology: A user-centric and relational conceptualization of
Oliver Ibert	online platforms
Alica Repenning	
Anna Oechslen	

### **EVOLUTION OF COMPLEXITY IN TIME AND SPACE** (11.00-12.40) – Room: N10

### **CHAIR: Nico Pintar**

AUTHORS	TITLE OF THE PAPER
Margarida Bandeira Morai	isEconomic complexity and employment: The case of Portuguese
(P)	regions
Nico Pintar <b>(P)</b>	Complexity and smart specialization: Evaluating knowledge
Juergen Essletzbichler	complexity measures for EU metropolitan areas
Philipp Koch <b>(P)</b>	Yet another space: Why the Industry Space adds value to the
Wolfgang Schwarzbauer	understanding of structural change and economic development

### GLOBALISATION OF INNOVATION AND KNOWLEDGE (11.00-12.40) – Room: N13

#### **CHAIR: Andrea Coveri**

AUTHORS	TITLE OF THE PAPER
Andrea Coveri <b>(P)</b>	Functional specialization in FDI and value capture in GVCs: An
Antonello Zanfei	empirical assessment of the smile curve on a global scale
Anran Mao <b>(P)</b>	Geographically dispersed Chinese MNEs: the role of intra-firm
Anne Plunket	networks and gatekeepers for technological catch-up
Eri Yamada <b>(P)</b>	The knowledge complexity of the automotive industry: An inter-
Tetsu Kawakami	regional comparative perspective

### MOBILITY OF WORKERS, RELATEDNESS AND THE GEOGRAPHY OF INNOVATION (11.00-12.40) – Room: N15

#### **CHAIR: Rosina Moreno**

AUTHORS	TITLE OF THE PAPER
Rosina Moreno <b>(P)</b>	Rails and innovation: Evidence from China
Georgios Tsiachtsiras	
Deyun Yin	
Ernest Miguelez	
Julien Giorgi <b>(P)</b>	Novelty, Migration and Relatedness
Felipe Starosta de	
Waldemar	
Anne Plunket	
Sandro Montresor <b>(P)</b>	"With no siblings, but with home": single patent-class inventions
	(SPIs) and regional technological diversification in Europe
Rolf Sternberg <b>(P)</b>	High-speed internet vs. locational preferences of the highly-skilled:
Louis Knüpling	Will improved digital infrastructure lead to a decrease of economic disparities between urban and rural areas?

### RESPONSIBLE INNOVATION, SOCIAL INNOVATION AND INCLUSIVE GROWTH (11.00-12.40) – Room: N01

### **CHAIR: Fulvio Castellacci**

AUTHORS	TITLE OF THE PAPER
Fulvio Castellacci <b>(P)</b>	Innovation and social welfare: A new research agenda
Liliana Cuccu <b>(P)</b>	Just relocated? Robots, displacement and job quality
Christian Binz <b>(P)</b>	Towards a normative turn in the geography of innovation? Evolving
Carolina Castaldi	perspectives on innovation, institutions and well-being

### SPATIAL DYNAMICS OF INNOVATION NETWORKS (11.00-12.40) – Room: N16

### **CHAIR: Corinne Autant-Bernard**

AUTHORS	TITLE OF THE PAPER
Corinne Autant-Bernard <b>(P)</b>	Structural holes in networks of cross-organizational R&D teams
Federico Fantechi <b>(P)</b>	Firm competitiveness, specialization and employment growth:
Ugo Fratesi	territorial level relationships
Sergio Petralia <b>(P)</b>	Disruptive innovation and uneven regional economic development
Tom Kemeny	
Michael Storper	
Yiran Su <b>(P)</b>	Global technological innovation: a systematic analysis of green
Robert Elliott	innovation, international collaboration and patent quality
Liza Jabbour	

### THE GEOGRAPHY OF CREATIVE ACTIVITIES AND INDUSTRIES (11.00-12.40) – Room: N11

### **CHAIR: Amir Maghssudipour**

AUTHORS	TITLE OF THE PAPER
Amir Maghssudipour <b>(P)</b>	The role of cultural entrepreneurship in shaping human capital
Filippo Berti Mecocci	evidence from European regions
Marco Bellandi	
Eva Coll-Martínez <b>(P)</b>	Creative industries and gentrification

### TRANSFORMATIVE REGIONAL RESILIENCE AND INNOVATION (11.00-12.40) – Room: N02

#### **CHAIR: Lorenzo Zirulia**

AUTHORS	TITLE OF THE PAPER
Charles Abbott <b>(P)</b>	Towards a new framework for bridging the emerging dichotomy between Smart Specialisation and the Missions-Based policy approaches?
Constanze Zöllter <b>(P)</b>	Shrinking cities in peripheral regions as attractive residential and living locations – an experimental approach from the German city of Görlitz
Lorenzo Zirulia <b>(P)</b> Alessia Mariotti	Getting out of the quagmire: public and private strategies in Rimini after the 1989 mucilage crisis
Nora Baekkelund <b>(P)</b> Stig-Erik Jakobsen Rune Njøs	The relatedness of knowledge combinations —a micro perspective on innovation in the tourism industry

### UNIVERSITIES AND THE GEOGRAPHY OF SCIENCE AND INNOVATION (11.00-12.40) – Room: N19

#### **CHAIR: Jarno Hoekman**

AUTHORS	TITLE OF THE PAPER
Bernd Wurth <b>(P)</b>	S(t)imulating Academic Entrepreneurship in University Ecosystems:
Niall MacKenzie	A Hybrid System Dynamics Agent-Based Simulation
Susan Howick	
Erik Stam	
Jarno Hoekman <b>(P)</b>	Geography of authorship: how geography shapes authorship
Bastian Rake	attribution in global team science
Stefan Rehak <b>(P)</b>	Urban scaling of university science in Europe 1970 – 2010
Balazs Lengyel	
Miroslav Spurek	
Hyunha Shin <b>(P)</b>	Science collaboration, research funding, and novelty in scientific
Keungoui Kim	knowledge
Dieter Kogler	

### WEDNESDAY, JULY 6<sup>TH</sup> – PARALLEL SESSIONS 6

### **EVOLUTION OF COMPLEXITY IN TIME AND SPACE** (13.40-15.20) – Room: N10

### **CHAIR: Tom Brökel**

AUTHORS	TITLE OF THE PAPER
Annie Tubadji <b>(P)</b>	Culture, Variety and Innovation: A CBD Approach to Cultural Entropy
Roberto Antonietti <b>(P)</b>	Exploring the entropy-complexity nexus. Evidence from Italy
Chiara Burlina	
Tom Brökel <b>(P)</b>	Boosting, sorting, and complexity – Urban scaling of innovation
Lars Mewes	across cities around the world
Louis Knuepling	

# EXPLORING TECHNOLOGICAL TRANSFORMATION IN EUROPE (13.40-15.20) – Room: N15

### **CHAIR: Zoran Aralica**

AUTHORS	TITLE OF THE PAPER
Michael Grote <b>(P)</b>	Blockchain financial geographies: Disrupting space, agency and
Matthew Zook	scale
Tzameret Rubin <b>(P)</b>	The economic geography of the digital transition in the APS-
Francisco Trincado-Munoz	z Complex: A technology space analysis
Michiel van Meeteren	
Tim Vorley	
Zoran Aralica <b>(P)</b>	The technological transformation of economies: measurement
Anita Harmina	framework overview and a new agenda
Camilla Lenzi <b>(P)</b>	Industry 4.0 and Servitisation: regional patterns of 4.0 technological
Roberta Capello	transformations in Europe

### MAPPING THE TRANSITION OF REGIONS TOWARDS ENVIRONMENTAL AND SOCIO-ECONOMIC SUSTAINABILITY (13.40-15.20) – Room: N18

### **CHAIR: Luciana Lazzeretti**

AUTHORS	TITLE OF THE PAPER
Britney Bulah <b>(P)</b>	An institutional perspective on innovation system dynamics: system-
Marko Hekkert	building in the United States' plant-based protein industry 1978-2019
Simona Negro	
Koen Beumer	
Francesco Capone <b>(P)</b>	The Geography of Green Inventions in Italy
Niccolò Innocenti	
Luciana Lazzeretti	
Julian Barnikol <b>(P)</b>	Advanced Frugal Innovations in different regions: insights from a
Ingo Liefner	combination of Innovation Systems Concepts, the Multi-Level
	Perspective, and Case-based Evidence
Maria Tsouri <b>(P)</b>	The importance of science for the development of new PV
Ron Boschma	technologies in European regions
Silvia Rita Sedita <b>(P)</b>	Opening the black box of well-being in Europe: the relative
Stefania Oliva	importance of GDP, green innovations and social capital
Ivan De Noni	
Luigi Orsi	

### SPATIAL DYNAMICS OF INNOVATION NETWORKS (13.40-15.20) – Room: N13

### **CHAIR: Jose-Luis Hervas-Oliver**

AUTHORS	TITLE OF THE PAPER
Eszter Bokanyi <b>(P)</b>	Urban hierarchy and spatial diffusion over the innovation life cycle
Martin Novak	
Akos Jakobi	
Balazs Lengyel	
Iris Wanzenböck <b>(P)</b>	Explaining the emergence of new regional technological
Silvia Rocchetta	specialisations: the role of actors and technological network
Dieter Kogler	portfolios
Keungoui Kim	
Jose-Luis Hervas-Oliver <b>(P</b> )	The anatomy of SME collaboration- a configurational analysis
Francisca Sempere-Ripoll	
Mehmet Metehan	How territorial is the soil decontamination innovation system?
Ciftci <b>(P)</b>	
Nino David Jordan	

### THE GEOGRAPHY OF CREATIVE ACTIVITIES AND INDUSTRIES (13.40-15.20) – Room: N11

#### **CHAIR: Allan Watson**

AUTHORS	TITLE OF THE PAPER
Allan Watson <b>(P)</b>	Not all roads lead to London: insularity, disconnection and the
	challenge to 'regional' creative industries policy
Etienne Capron <b>(P)</b>	Revealing preferential circulations - how the uses of places serve
Raphaël Suire	collective innovation
Roberto Dellisanti <b>(P)</b>	Innovativeness and creative process in CCIs: a theoretical taxonomy to study their spatial concentration

# UNIVERSITIES AND THE GEOGRAPHY OF SCIENCE AND INNOVATION (13.40-15.20) – Room: N16

### **CHAIR: Alessandra Scandura**

AUTHORS	TITLE OF THE PAPER
Alessandra Scandura <b>(P)</b>	Regional unrelated technological diversification: the role of
Francesco Quatraro	academic inventors
Massimiliano Guerini <b>(P)</b>	Regional knowledge production across Europe: Insights from
Benedetto Lepori	combined indicators and an innovative regional delineation
Thomas Scherngell	
Michael Barber	
Lionel Villard	
Sebastian Heinrich <b>(P)</b>	The Spatial Diffusion of Artificial Intelligence – Geographical diffusion patterns of AI related technologies in science and industry

# URBAN AGGLOMERATIONS, EXTERNALITIES AND INNOVATION (13.40-15.20) – Room: N17

### **CHAIR: Veneziano De Castro Araujo**

AUTHORS	TITLE OF THE PAPER
Adelheid Holl <b>(P)</b>	Characterizing innovation-promoting local environments in Spain
Catalina Martinez	and their evolution over time
Clara Casado	
Lucas Magalhães <b>(P)</b>	Bringing economic complexity to the intra-urban scale: how services
Monica Haddad	shape the urban economy in Belo Horizonte, Brazil
Monika Kuffer	
Nina Schwarz	
Veneziano De Castro	Determinants of Regional Innovation in Brazil between 1998 and
Araujo <b>(P)</b>	2018: A Spatial Panel Approach
Sarah Ferreira	
Renato Garcia	