

GEOinno2018

4TH GEOGRAPHY OF INNOVATION CONFERENCE

January 31st - February 2nd, 2018
BARCELONA

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#GEOINNO2018

Academic Programme

University of Barcelona
Faculty of Economics and Business



GEOINNO2018, BARCELONA

4th Geography of Innovation Conference

Barcelona, January 31st - February 2nd, 2018

*Faculty of Economics and Business
University of Barcelona*

Presentation

The Geography of Innovation Conference provides a forum for discussion to scholars interested in scientific, policy and strategic issues concerning the spatial dimension of innovation activities. Its main objective is to bring together some of the world's leading thinkers from a variety of disciplines and sub-disciplines, such as economics, business studies, sociology and management science, economic geography and regional science, network theory, and political and planning sciences.

There have been three previous editions of the conference. The first one held in Saint Etienne (France) in 2012, the second in Utrecht (Netherlands) in 2014 and the third one in Toulouse (France) in 2016. The [University of Barcelona](#) is the host of the 4th Geography of Innovation Conference 2018 (GEOINNO2018). The conference is organized by the AQR research group (Regional Quantitative Analysis), in cooperation with EuroLIO (European Localized Innovation Observatory).

The [Regional Quantitative Analysis research group](#) (AQR) is located in the [Department of Econometrics, Statistics and Applied Economics of the University of Barcelona](#). It consists of around forty professionals from Spain and other countries conducting research in the field of applied economics, with a focus on urban and regional issues. The Group has been officially recognized by the Catalan regional government for the excellence of its work over the last twenty years and for its specific achievements, including participation in international conferences, publication in indexed journals, books and monographs on specific subject areas, participation in international, national and regional competitive research projects, training of Spanish and foreign doctoral students, and the organization of numerous workshops, seminars and conferences.

On its side, the [European Localized Innovation Observatory](#) (EuroLIO) is a network of several research laboratories located in France, which promotes the interactions between researchers, public decision-makers and the producers of data within a framework set aside for exchange and dialogue.

For the 2018 edition, in Barcelona, around 260 papers will be presented in two days and a half, in a wide range of topics underlying the geography of innovation such as: knowledge spillovers, MNC, innovation clusters, relatedness, knowledge complexity, migration and innovation, mobility, networks, FDI, entrepreneurship, intellectual property, eco-innovations and sustainability, the geography of science and the role of universities, among many others.

In addition, GEOINNO2018 is supported by the following institutions: [Diputació de Barcelona](#), [ICREA](#), [LEREPS-Université Toulouse 1](#), [Ministerio de Economía y Competitividad](#), [Regional Studies Association](#), [La Région Auvergne-Rhône-Alpes](#), [GREThA UMR CNRS 5113-Université de Brodeaux](#), [Almirall S.A.](#) and [Museu Marítim de Barcelona](#). We thank their financial and/or logistic support, which contributes to make possible the organization of the conference.

The organising committee welcomes you all to this Conference and wish you have an enjoyable stay in Barcelona.

Rosina Moreno, Ernest Miguélez and Jordi Suriñach

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Practical information

1. Conference Venue

The conference takes place in the **Faculty of Economics and Business**, University of Barcelona. The addresses of the two main entrances to the faculty are:

From metro station “Zona Universitaria”:

Av. Diagonal, 690
08034 Barcelona

From metro station “Palau Reial”:

John Maynard Keynes street, 1-11
08034 Barcelona



2. Public Transport (to the conference venue)

Metro: The stop of the Faculty is: Palau Reial (L3) and from the airport is Zona Universitària (L9)

Fares:

- Bitllet senzill (Single ticket): Allows only 1 trip (is one-way ticket). Price 2,20€.
- T10 card: Card which allows for 10 trips. Multipersonal (For one person or more). Price 10,20€.

Barcelona metro map: <https://www.tmb.cat/en/barcelona-transport/map/metro>

Bus: The buses that arrive to the Faculty are: 7, 33, 67, 75, 113, H6, L14, L79, L97, N12

Barcelona bus map: <https://www.tmb.cat/en/barcelona-transport/map/bus>

Tram: The stop of the Faculty is: Palau Reial (T1, T2, T3)

For further information please visit : <https://www.tmb.cat/ca/home>

From the airport: **Metro:** The line L9 South (orange) connects the airport with Barcelona city. The line begins at Zona Universitaria station (conference venue) and stops at both terminals 1 and 2 of Barcelona airport.

Taxi: Taxis are parked at the ground floor of the airport, in front of the arrival hall.

Duration: approximately 25 minutes, depending on traffic conditions.

Fare: approximately 20-30 € to Barcelona city centre

3. Registration

On Wednesday, January 31st, the registration desk will be open from 13:00 in the **central corridor of the Faculty of Economics and Business, where the rooms for the parallel sessions are located**. At the registration you will receive an information package including this booklet. The package will also include maps and tourist information leaflets. Should you have any questions, please contact the members of the organization (identified with a green badge) or one of the stewards at the registration desk.

4. Internet and Social Media

Free wi-fi access is provided in most rooms.

- Choose the network “wifi.ub.edu”
- Open your browser and try accessing any website
- Allow pop-up and cookies
- Enter login and password
 - User Name (login): aoodqg.tmp
 - Password: gdgc25

You can also use your university EDUROAM account. Computer lab available in room 16.

Twitter:

<https://twitter.com/geoinno2018> - @geoinno2018

Use hashtag #GEOINNO2018 when tweeting about this event in social media

5. Lunches & Coffee Breaks

Lunch will be offered in the main hall in front of the Aula Magna.

Coffee breaks will be offered in the central corridor, next to the registration desk.

6. Locations (see map)

Registration: central corridor next to the rooms for the parallel sessions.

Parallel sessions: rooms A109, A110, A112, A113, A116, A119, A121, A122, A123 in central corridor.

Plenary sessions: Aula Magna.

Coffee breaks: Central corridor, next to the registration desk.

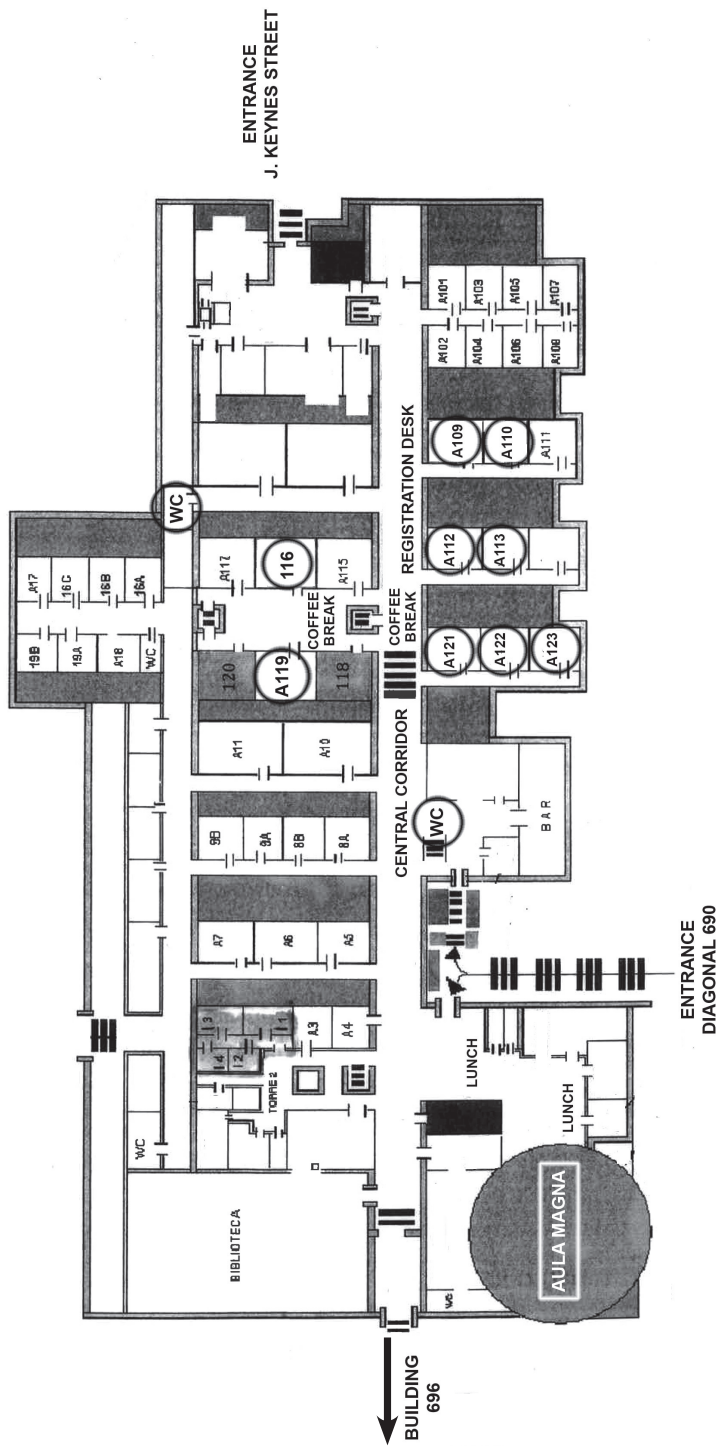
Lunches: Main hall in front of the Aula Magna.

Cocktail and gala dinner: see section “Social activities”.

7. Presentation guidelines and timing

All conference rooms will be equipped with notebooks and projectors. Please make sure to bring your slides on an USB pen and to upload them before the beginning of your session. If not otherwise specified, you will have 25 minutes for your presentation, including Q&As. Please foresee a maximum of 18-20 minutes for your presentation and 5-7 minutes for discussion. The session chair will ensure that schedule.

FACULTAT D'ECONOMIA I EMPRESA
EDIFICI 690



Social activities

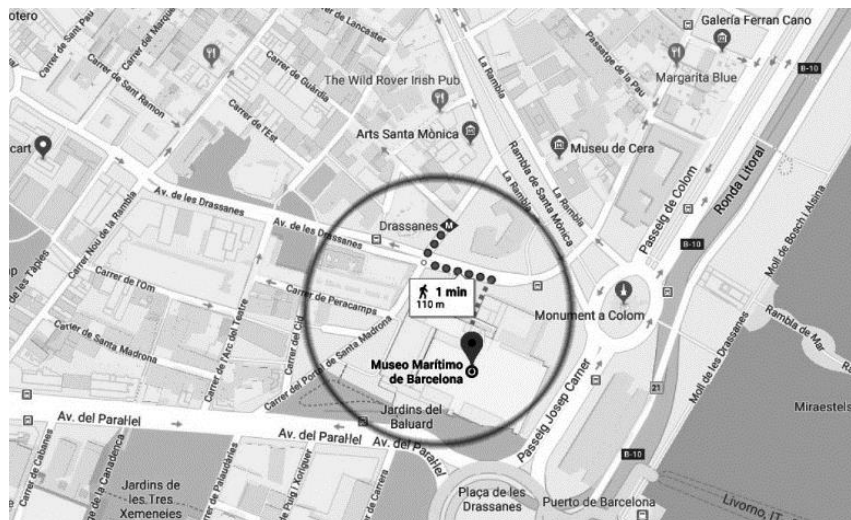
Welcome cocktail

- **When?** → Wednesday, 31st January, 7pm
- **Where?** → Paranimf Universitat de Barcelona. Gran Via de les Corts Catalanes 585
- **How to get there?** → Buses will take participants from the Faculty of Economics and Business to the Paranimf UB. The buses will be waiting at the metro station *Palau Reial*, at 5.45pm. For those going on their own, the address is Gran Via de les Corts Catalanes 585 (metro station *Universitat*, L1, L2).



Gala dinner

- **When?** → Thursday, 1st February, 8.30 pm
- **Where?** → Museu Marítim de Barcelona. Av Drassanes s/n
- **How to get there?** → Metro station Drassanes (L3) and walk 1 minute.



Organizing committee

Head of the committee

Rosina Moreno	AQR-IREA Research Group, University of Barcelona, Spain
Ernest Miguelez	GREThA – UMR CNRS 5113, University of Bordeaux, France
Jordi Suriñach	AQR-IREA Research Group, University of Barcelona, Spain

Other committee members

Corinne Autant-Bernard	University of Saint-Etienne, France
Pierre-Alexandre Balland	Utrecht University, Netherlands
Ron Boschma	Utrecht University, Netherlands
Koen Frenken	Utrecht University, Netherlands
Dieter Kogler	University College Dublin, Ireland
Jackie Krafft	University of Nice, France
Francesco Lissoni	University of Bordeaux, France
Enrique Lopez Bazo	AQR-IREA Research Group, University of Barcelona, Spain
Nadine Massard	University of Grenoble, France
Jerome Vicente	Sciences Po Toulouse, LEREPS and University of Toulouse, France

Scientific committee

Manuel Acosta Seró	U. Cadiz, Spain
Ajay Agrawal	Rotman School of Management, Canada
Josep Maria Arauzo Carod	Universitat Rovira i Virgili, Spain
Rafael Boix	U. Valencia, Spain
Stefano Breschi	Bocconi University, Italy
Tom Broekel	Utrecht University, The Netherlands
Christophe Carrincazeaux	University of Bordeaux, France
Roberta Capello	Politecnico di Milano, Italy
Lorenzo Cassi	Paris-Sorbonne, France
Christian Catalini	MIT Sloan, US
Riccardo Crescenzi	London School of Economics, UK
Davide Consoli	INGENIO-CSIC, Spain
Michel Dimou	Toulon University, France
Maryann Feldman	University of North Carolina, USA
Vincent Frigant	U. Bordeaux, France
Michael Fritsch	University of Jena, Germany
Jose Garcia Quevedo	University of Barcelona, Spain
Michel Grossetti	University of Toulouse, France
Canfei He	Peking University, China
Simona Iammarino	London School of Economics, UK
Jose-Luis Hervas-Oliver	Polytechnic University of Valencia, Spain
William Kerr	Harvard Business School, US
Keld Laursen	Copenhagen Business School, Denmark
Julie Le Gallo	Agrosup Dijon, France
Mark Lorenzen	Copenhagen Business School, Denmark
Sami Mahroum	INSEAD Abu Dhabi, UAE
Benjamin Montmartin	UNSA, France
Andrea Morrison	Utrecht University, Netherlands
Anne Plunket	University of Nancy, France
Francesco Quatraro	University of Turin, Italy
Roberta Rabellotti	University of Pavia, Italy
Gaetan de Rassenfosse	EPFL, Switzerland
David L. Rigby	UCLA, US
Andres Rodriguez-Pose	London School of Economics, UK
André Torre	INRA, Paris, France
Michaela Trippel	University of Lund, Sweden
Stefano Usai	University of Cagliari, Italy
Atilla Varga	Pecs University, Hungary

Keynote speakers



understanding of the role of human agency, choice and innovation in developing resilience in social systems.

Gillian Bristow is Professor of Economic Geography at the School of Geography and Planning, Cardiff University, and also Dean of Research for the College of Arts, Humanities and Social Sciences. Her research interests focus on regional economic development and policy, and much of her recent work has focused upon the concept of regional economic resilience. She recently led an ESPON funded project examining the economic resilience of regions to the 2008 global economic crisis, and is currently editing two books exploring the resilience concept in relation to both theory and practice. She is also currently engaged in interdisciplinary work which seeks to develop and enhance our



Frank Neffke is a Senior Researcher at the Center for International Development at Harvard University. His research focuses on the role of skills in diversification and structural transformation. Frank has written on the emergence of new regional growth paths, the role of worker and firm mobility in the diffusion of industries and technologies and on the importance of skill complementarities among coworkers. Before joining CID, Frank worked as an assistant professor at the Erasmus School of Economics in Rotterdam, The Netherlands. He holds a PhD in Economic Geography from Utrecht University and Master degrees in Econometrics and Philosophy from the University of Amsterdam.



economic geographers in the world today” and Thompson-Reuters named him “one of the world’s most influential scientific minds” in 2013. He received the Gold Medal of the Royal Geographical Society in 2016, and is a member of the British Academy, and the Academy of Social Sciences.

Michael Storper is an economic geographer who has spent his career at UCLA, London School of Economics, and Sciences Po/Paris. Storper is the author of more than 100 peer-reviewed academic articles and 12 books, including the widely-cited *The Regional World: Territory, Technology and Economic Development* (Guilford), *Worlds of Production* (Harvard), and *Keys to the City* (Princeton University Press, 2013). A number of his articles are among the most highly-cited in the journals in which they have been published, mainly in geography, sociology, urban studies, economics, and development studies. A recent article published in *Papers in Regional Science* called him “one of the two most influential



science, she has authored numerous well cited publications in leading international journals. Specific recent topics include cooperative R&D, international technology transfers through MNEs, global innovation value chains, young innovative companies, innovation for climate change, industry science links and their impact on firm’s innovative productivity, evaluation of research & innovation policy, explaining scientific productivity, researchers’ international mobility. She coordinates a large, multidisciplinary research project on radical innovations.

Reinhilde Veugelers is full professor at KU Leuven (Belgium), at the Department of Management, Strategy and Innovation. She is a Senior Fellow at Bruegel since 2009. She is also a CEPR Research Fellow, a member of the Royal Flemish Academy of Belgium for Sciences and of the Academia Europaea. From 2004-2008, she was on academic leave, as advisor at the European Commission (BEPA Bureau of European Policy Analysis). She currently serves on the ERC Scientific Council. With her research concentrated in the fields of industrial organisation, international economics and strategy, innovation and

Programme overview

Wednesday 31st January

Central Corridor	13.00	Registration begins
Aula Magna	14.00-15.30	PLENARY SESSION WELCOME SPEECHES Ramon Alemany (Dean of the Faculty of Economics and Business) and Rosina Moreno (Organising Committee) KEYNOTE – MICHAEL STORPER <i>“Innovation for Winners? The Intertwined Geographies of Innovation, Inter-regional Inequalities, and Social Inequalities Today”</i> CHAIR – RON BOSCHMA
Central Corridor	15.30-16.00	Coffee break
	16.00-17.40	PARALLEL SESSIONS 1
UB Historic Building	19:00-21:00	Welcome cocktail

Thursday 1st February

	8.30-10.10	PARALLEL SESSIONS 2
Central Corridor	10.10-10.30	Coffee break
	10.30-11.45	PARALLEL SESSIONS 3
Aula Magna	11.45-13.15	KEYNOTE – GILLIAN BRISTOW <i>“The relationship between innovation and the resilience of regions to economic shocks”</i> KEYNOTE – FRANK NEFFKE <i>“The division, diffusion and coordination of complex know-how”</i> CHAIR – MARYANN FELDMAN
Aula Magna	13.15-14.15	Lunch
	14.15-15.55	PARALLEL SESSIONS 4
Central Corridor	15.55-16.20	Coffee break
	16.20-18.00	PARALLEL SESSIONS 5
Maritime Museum	20.30-23.00	Gala dinner

Friday 2nd February

	9.00-10.40	PARALLEL SESSIONS 6
Central Corridor	10.40-11.05	Coffee break
	11.05-12.45	PARALLEL SESSIONS 7
Aula Magna	12.45-13.40	Lunch
	13.40-14.55	PARALLEL SESSIONS 8
Central Corridor	14.55-15.25	Coffee break
	15.25-16.40	PARALLEL SESSIONS 9
Aula Magna	16.40-18.00	PLENARY SESSION
		KEYNOTE - REINHILDE VEUGELERS: “The Challenge of the Rise of China as Science and Technology Powerhouse”
		CHAIR – FRANCESCO LISSONI
Aula Magna	18.00	Farewell speeches and end of the conference

Special and regular sessions	Chairs	Room	Time	Day
1.1. Microeconomic determinants of regional knowledge recombination and novelty	Anne Plunket	A109	16:00-17:40	Wednesday 31/1/2018
1.2. Creativity, creative class and urban development	Bart Van Looy	A110		
1.3. Knowledge transfers and spillovers	Damián Tojeiro-Rivero, Rosina Moreno	A112		
1.4. Multinational Enterprises: Organizational Strategies and Innovation in Heterogeneous Environments I	Andrea Ascani	A113		
1.5. Measuring innovation clusters	Carsten Fink	A123		
1.6. Science, technology and innovation policies	Margareta Dahlström, Ida Grundel	A116	8:30-10:10	Thursday 1/2/2018
1.7. Relatedness and the geography of innovation I	Jeroen Content	A119		
1.8. Agglomeration economies, externalities and innovation	Nicola Barbieri	A122		
2.1. Multinational Enterprises: Organizational Strategies and Innovation in Heterogeneous Environments II	Luisa Gagliardi	A113		
2.2. Geography of Sustainability Transitions I	Marco Capasso, Anjke Klifkou	A109		
2.3. Knowledge Flows and Knowledge Production	Gabriele Pellegrino	A110		
2.4. Knowledge complexity I	Pierre-Alexandre Balland, Tom Broekel	A112		
2.5. Regional alignment	Benjamin Montmartin, Nadine Massad	A122		
2.6. Creating Digital Opportunity	Shir Breznitz	A116		
2.7. STI Policies: R&D Investments and Geography	François Ferruchas	A119		
2.8. Space, knowledge and innovation	Marcos Sanso-Navarro	A123	10:30-11:45	Thursday 1/2/2018
3.1. Evaluating individual and territorial impacts of public support to collaborative R&D and Innovation I	Corinne Autant-Bernard, Nadine Massard	A110		
3.2. Geography of Sustainability Transitions II	Marco Capasso, Anjke Klifkou	A109		
3.3. Knowledge Spaces – Evolutionary Insights and Portfolio Analysis for “Smart” Development & Specialisation Policies I	Dieter F. Kogler	A123		
3.4. Knowledge complexity II	Pierre-Alexandre Balland, Tom Broekel	A112		
3.5. Migration and Innovation I	Andrea Morrison	A116		
3.6. Innovation, variety, regions, and networks	Francesco Capone	A119		
3.7. Research & Development	René Balderbos	A113		
3.8. Mobility, networks and innovation	Ariana Costa	A122		
4.1. Foreign investment, Multinationals and Innovation in advanced and emerging economies I	Riccardo Crescenzi, Alexander Jaax	A113		
4.2. Industrial districts, clusters and the geography of innovation I	José Luis Hervás	A110		
4.3. Knowledge complexity III	Pierre-Alexandre Balland, Tom Broekel	A112		
4.4. Migration and Innovation II	Stefano Breschi	A116		
4.5. Place and Entrepreneurship in the Era of Digital Platforms	Sami Mahroum, Koen Frenken, Erik Stam	A109		
4.6. Industries and innovation	Alessia Malano	A119		
4.7. The geography of trademarks	Carolina Castaldi, Sandro Mendonça	A123		
5.1. Foreign Investment, Multinationals and Innovation in advanced and emerging economies II	Riccardo Crescenzi, Alexander Jaax	A113		
5.2. Innovative Data for Economic Analysis	Mayvan Feldman, Ludovic Dibiaggio	A122		
5.3. Industrial districts, clusters and the geography of innovation II	Rafael Boix	A110		
5.4. Mixed-methods, networks and the geography of innovation	Bastien Bernela, Marie Ferru, Michel Grossetti	A112		
5.5. New regional industrial path development beyond related variety I	Björn Asheim	A116	16:20-18:00/18:25	Thursday 1/2/2018
5.6. The Geography of Scientific Knowledge Diffusion	Fabio Montobbio	A123		
5.7. Relatedness and the geography of innovation II	Francesco Quattraro	A119		
5.8. Entrepreneurship, innovation and regional development	Valentina Tairari	A121		
5.9. Geography of Sustainability Transitions III	Marco Capasso, Anjke Klifkou	A109		

Special and regular sessions	Chairs	Room	Time	Day
6.1. Open creative labs: Platforms of local and global collaborative innovation and entrepreneurship I	Ignasi Capdevila, Oliver Ibert	A109	9:00-10:40	Friday 2/2/2018
6.2. Innovation, local labour markets and regional development I	Tom Kemeny, Neil Lee	A112		
6.3. Industrial districts, clusters and the geography of innovation III	Silvia Sedila, José Luis Henvárs, Rafael Bolk	A110		
6.4. New Forms of Innovation: theoretical and empirical insights into dynamics of territorial and relational geographies I	Simone Strambach	A113		
6.5. New regional industrial path development beyond related variety II	Markus Grillitsch	A116		
6.6. Intellectual Property and Economic Geography I	Kyriakos Drivas	A119		
6.7. The Role of Universities in Innovation and Regional Development I	Rune Dahl Fitjar, Paul Benneworth, David Charles	A123	11:05-12:45	Friday 2/2/2018
6.8. Networks, proximity and knowledge flows II	Andrés Rodríguez-Pose	A122		
7.1. Intellectual Property and Economic Geography II	Ioannis Kaplani	A119		
7.2. Innovation, local labour markets and regional development II	Davide Consoli, Maria Savona	A112		
7.3. Industrial districts, clusters and the geography of innovation IV	Silvia Sedila	A110		
7.4. New Forms of Innovation: Theoretical and empirical insights into dynamics of territorial and relational geographies II	Anna Butzin	A113		
7.5. New regional industrial path development beyond related variety III	Michaela Trippi	A116		
7.6. Geography of science	Alfons Palangkaraya	A109		
7.7. The Role of Universities in Innovation and Regional Development II	Rune Dahl Fitjar, Paul Benneworth, David Charles	A123		
7.8. Networks, proximity and knowledge flows II	Laurent Bergé	A122		
8.1. Eco-innovation and sustainability	Jose Garcia-Quevedo	A110	13:40-14:55	Friday 2/2/2018
8.2. Foreign Investment, Multinationals and Innovation in advanced and emerging economies III	Riccardo Crescenzi, Alexander Jaax	A113		
8.3. Innovation, Technological Change and Economic Growth I	Thomas Brenner	A112		
8.4. Knowledge Spaces – Evolutionary Insights and Portfolio Analysis for “Smart” Development & Specialisation Policies II	Dieter F. Kogler	A123		
8.5. Migration and Innovation III	Francesco Lissoni	A116		
8.6. Open creative labs: Platforms of local and global collaborative innovation and entrepreneurship II	Sunije Schmidt, Raphael Suire	A109		
8.7. Innovation and Technological Change	Roberto Zötl	A119		
9.1. Evaluating individual and territorial impacts of public support to collaborative R&D and Innovation II	Corinne Autant-Bernard, Nadine Massard	A110		
9.2. Foreign Investment, Multinationals and Innovation in advanced and emerging economies IV	Riccardo Crescenzi, Alexander Jaax	A113		
9.3. Innovation, Technological Change and Economic Growth II	Francisco Javier Santos-Arteaga	A112		
9.4. Knowledge Spaces – Evolutionary Insights and Portfolio Analysis for “Smart” Development & Specialisation Policies III	Silvia Rocchetta	A123		
9.5. Migration and Innovation IV	Andrea Morrison	A116	15:25-16:40	Friday 2/2/2018
9.6. The geography of eco-innovation: transitioning to Smart and Sustainable Specialization Strategies	Sandro Montresor, Francesco Quatrano	A109		

Detailed programme

Parallel sessions 1.

Session 1.1. Wednesday 31st January, 16:00 - 17:40

Microeconomic determinants of regional knowledge recombination and novelty (Room A109)

Chair: Anne Plunket

Linkages across Different Spatial Levels and Novelty: An analysis of Innovative SME in Central and South Eastern Europe

Jutta Sehic

On workforce diversity and innovation novelty across geography

Marte Solheim, Ron Boschma, Sverre J. Herstad

Social capital, resilience and regional diversification in Italy

Roberto Antonietti, Ron Boschma

When do knowledge gatekeepers act as technology brokers?

Anne Plunket

Session 1.2. Wednesday 31st January, 16:00 - 17:40

Creativity, creative class and urban development (Room A110)

Chair: Bart Van Looy

Creativity and the City: Testing the Attenuation of Agglomeration Economies for the Creative Industries in Barcelona

Eva Coll-Martínez

From cluster to scene: towards a new framework for analyzing creative territory

Hélène Morteau, Raphaël Suire

Macro Psychological Characteristics and the Emergence of Star Patents in US Metropolitan Areas

Tobias Ebert, Lars Mewes, Martin Obschonka, Peter Jason Rentfrow, Sam Gosling, Jeff Potter

Do artists really contribute to the knowledge economy? An assessment on the level of EU15 regions

Michela Bergamini, Bart Van Looy

Session 1.3. Wednesday 31st January, 16:00 - 17:40**Knowledge transfers and spillovers (Room A112)****Chair: Damián Tojeiro-Rivero, Rosina Moreno**

The effect of ICTs on business start-up rates: A dynamic panel approach for Chilean municipalities, 2005-2012	Andrés Castaño, Félix Modrego, Gianni Romani
Like Father like Son: Technology Transfers and Productivity Effects from Firm Ownership	Bruno Merlevede, Angelos Theodorakopoulos
Structural change of industrial clusters in Japan: Evidence from the automobile supply chain	Eri Yamada, Tetsu Kawakami, Pierre-Alexandre Balland
Acquisition of external knowledge, local spillovers and firm's innovativeness	Damián Tojeiro-Rivero, Rosina Moreno

Session 1.4. Wednesday 31st January, 16:00 - 17:40**Multinational Enterprises: Organizational Strategies and Innovation in Heterogeneous Environments I (Room A113)****Chair: Andrea Ascani**

Local Discoveries and Technological Relatedness: the Role of Foreign Firms	Alessia Lo Turco, Daniela Maggioni
Innovation, Connectivity and the Location of MNEs. Evidence from US Metropolitan Areas	Davide Castellani, Katuscia Lavoratori, Alessandra Perri, Vittoria G. Scalera
How the Configuration of Learning Channels of Creative Subsidiaries affects their Technological Performance	Isabel Alvarez, John Cantwell
Heterogeneous spillover effects from MNE investments: Domestic learning capacity and technological opportunities	Andrea Ascani, Luisa Gagliardi

Session 1.5. Wednesday 31st January, 16:00 - 17:40**Measuring innovation clusters (Room A123)****Chair: Carsten Fink**

Measuring Entrepreneurial Ecosystems	Erik Stam
Are Women Located in the Wrong Places?: The Role of Location on the Inventor Gender Gap	Mercedes Delgado, Myriam Mariani, Fiona Murray
Cluster Identification in Collaboration Networks of Innovators	Taras Hrendash
Measuring Innovation Clusters	Kyle Bergquist, Carsten Fink, Julio Raffo

Session 1.6. Wednesday 31st January, 16:00 - 17:40

Science, technology and innovation policies (Room A116)

Chair: Margareta Dahlström, Ida Grundel

Towards Regional Responsible Research and Innovation? Integrating RRI and RIS3 in European Innovation Policy	Rune Dahl Fitjar, Paul Benneworth, Bjørn Asheim
The geographic proximity to European Commission and the likelihood to be granted with a subsidy from EU	Cem Ermagan, Dirk Czarnitzki, Peter Teirlinck
Public procurement, local labor market and green technological change: Evidence from US Commuting Zones	Davide Consoli, Gianluca Orsatti, François Perruchas, Francesco Quatraro
The impact of R&D subsidies under different institutional frameworks	Stefano Bianchini, Patrick Llerena, Roberto Martino

Session 1.7. Wednesday 31st January, 16:00 - 17:40

Relatedness and the geography of innovation I (Room A119)

Chair: Jeroen Content

When regional development is path-independent: Growth, relatedness and job polarization	Jacob Rubæk Holm, Christian Richter Østergaard
The impact of regional skill relatedness and diversification potential on regional growth	Kadri Kuusk
Dynamics of regional diversification: What affects the emergence of radical innovations in regions?	Kolja Hesse
Regional diversification and industry relatedness: How important are KIBS, GVC & R&D?	Jeroen Content, Nicola Cortinovis, Koen Frenken, Jacob Jordaan

Session 1.8. Wednesday 31st January, 16:00 - 17:40

Agglomeration economies, externalities and innovation (Room A122)

Chair: Nicolò Barbieri

Informal Institutions and Inventive Cooperation – an Underestimated Power!? The effect of informal institutions on inventive cooperation propensity in European regions	Cathrin Söllner
Premature Deagglomeration	Christopher R. Esposito
Assessing technological relatedness between specialisation domains in the Smart Specialization Strategy	Diego D’Adda, Donato Iacobucci, Roberto Palloni
Specialization, diversification and environmental technology life-cycle	Nicolò Barbieri, François Perruchas, Davide Consoli

Parallel sessions 2.

Session 2.1. Thursday 1st February, 8:30 - 10:10

Multinational Enterprises: Organizational Strategies and Innovation in Heterogeneous Environments II (Room A113)

Chair: Luisa Gagliardi

Co-location and Temporary Proximity of R&D and Manufacturing: Location Choice of Foreign MNEs in Italy Lucia Piscitello, Katuscia Lavoratori, Sergio Mariotti

The role of local inventors in global knowledge absorption by latecomer companies: Can money buy knowledge? Kerstin J. Schaefer

Location, location, location! An exploratory study of the attraction and contribution of quality of the built environment to foreign direct investments Nicholas A. Phelps, Jacob Simpson

Session 2.2. Thursday 1st February, 8:30 - 10:10

Geography of Sustainability Transitions I (Room A109)

Chair: Marco Capasso, Antje Klitkou

Governance approaches to Global Innovation Systems: New challenges for sustainability transitions Bernhard Truffer, Christian Binz

Agency and Structure Interactions in Transitional Regional Development Camilla M Chlebna

Strategic niche management for industrial ecosystems: A cross case study on management of synergy based initiatives in Catalonia and Basque Country Ebru Susur, Antonio Hidalgo, Davide Chiaroni

Spatial context qualities of frugal innovations and their relevance for the geography of sustainability transitions Luise Fischer, Hans-Christian Busch

Session 2.3. Thursday 1st February, 8:30 - 10:10

Knowledge Flows and Knowledge Production (Room A110)

Chair: Gabriele Pellegrino

Scientific Knowledge Transfer via Heads: Scientific Publications and Industry Patenting Activity of Doctorates Dominik Heinisch

Airtravel Costs and Scientific Collaboration Christian Fons-Rosen, Christian Catalini, Patrick Gaule

Knowledge Transfers and Market Overlap: Technology Licensing and Inventor Job Transitions Dennis Kuo

The Knowledge dynamics of inventors' performance: A multilevel analysis of knowledge externalities. Matteo Tubiana, Ernest Miguelez, Rosina Moreno

Session 2.4. Thursday 1st February, 8:30 - 10:10

Knowledge complexity I (Room A112)

Chair: Pierre-Alexandre Balland, Tom Broekel

Local and Non-Local Knowledge Typologies: Technological Complexity in the Irish Knowledge Space	Adam Whittle
Technological regimes and the long-run dynamics of patents' spatial concentration	Dario Diodato, Andrea Morrison
Nano Sleeping Beauties: Nanotechnology breakthrough innovations with delayed recognition	Elena M. Tur, Evangelos Bourellos, Maureen McKelvey
Complexity and Inventor Collaboration in U.S. cities between 1836 and 1975	Frank van der Wouden

Session 2.5. Thursday 1st February, 8:30 - 10:10

Regional alignment (Room A122)

Chair: Benjamin Montmartin, Nadine Massad

Endogenous Network Fragmentation	Balázs Lengyel, Bence Sagvari
Does politics matter? Regional development in the EU	Jonathan Muringani, Rune Dahl Fitjar, Andrés Rodríguez-Pose
Policy and Ecosystem Evolution	Maryann Feldman, Elsie Echeverri-Carroll, Paige Clayton
Regional Alignment and Performance	Balint Dioszegi, Ludovic Dibiaggio, Benjamin Montmartin, Lionel Nesta

Session 2.6. Thursday 1st February, 8:30 - 10:10

Creating Digital Opportunity (Room A116)

Chair: Shiri Breznitz

Industrial dynamics, innovation and the effectiveness of public policy: An analysis of the video game industry in Canada	David Grandadam, Patrick Cohendet
From Multinational H.Q. to Startup Ecosystem: Local Factors Driving the Transformation of Toronto's ICT Cluster	David A. Wolfe, Steven Denney, Travis Southin
Ridehailing & World Cities: Role and prospects for Canadian cities	Shauna Brail
Geography and Crowdfunding in the Digital Economy in the USA.	Shiri M. Breznitz, Martin Kenney, Douglas S. Noonan

Session 2.7. Thursday 1st February, 8:30 - 10:10

STI Policies, R&D investments and Geography (Room A119)

Chair: François Perruchas

R&D Investments, Innovation and Corporate Taxation: Evidence from German Municipalities	Felix Pöge, Ingo Insphording, Andreas Lichter, Max Löffler, Thu-Van Nguyen, Sebastian Siegloch
Who gets the funds? Consortium-specific factors influencing proposal success in Horizon 2020	Iris Wanzenböck, Rafael Lata, Doga Ince
The Long-Run Effects of R&D Place-based Policies: Evidence from Russian Science Cities	Paolo Zacchia, Helena Schweiger, Alexander Stepanov
The role of European funding on the nanotechnology sciences and technologies in Europe	François Perruchas, Lionel Villard, Thomas Scherngell, Michael Barber, Philippe Larédo, Jordi Molas-Gallart

Session 2.8. Thursday 1st February, 8:30 - 10:10

Space, knowledge and innovation (Room A123)

Chair: Marcos Sanso-Navarro

Spatio-temporal analysis of technological pathways: The cases of onshore and offshore wind energy	Franziska Pudelko, Thomas Brenner
Proximity and Learning: Evidence from a Post-WW2 Intellectual Reparation Program	Rasmus Bode, Guido Bunstorf, Dominik Heinisch
A heterogeneous coefficient approach to the knowledge production function	Corinne Autant-Bernard, James P. LeSage
The long-run relationship between R&D and knowledge in Spanish regions	Marcos Sanso-Navarro, María Vera-Cabello

Parallel sessions 3.

Session 3.1. Thursday 1st February, 10:30 - 11:45

Evaluating individual and territorial impacts of public support to collaborative R&D and Innovation I (Room A110)

Chair: Corinne Autant-Bernard, Nadine Massard

Who benefits from GRW? Heterogeneous employment effects if investment subsidies in Saxony Anhalt	Eva Dettmann, Antje Weyh, Mirko Titze
University-industry R&D collaboration as an engine of firm growth? An empirical evaluation of knowledge cluster policies in Japan	Kenta Ikeuchi, Hiroyuki Okamuro
Effects of cluster policies on collaboration networks	Konan Alain N’Ghauran

Session 3.2. Thursday 1st February, 10:30 - 11:45

Geography of Sustainability Transitions II (Room A109)

Chair: Marco Capasso, Antje Klitkou

Sustainability Transition and Technological Catch-Up: Guidance of search as a strategic mechanism for leapfrogging	Xiao-Shan Yap, Bernhard Truffer
Including a spatial perspective into research on socio-technical transitions: case studies in the Swiss energy and German transport sector	Jens Schippl, Timo von Wirth
Transition towards sustainable mobility: A qualitative case study on how households use car sharing in Oslo	Elisabeth Marie Cassidy Svennevik, Tom Erik Julsrud, Eivind Farstad

Session 3.3. Thursday 1st February, 10:30 - 11:45

Knowledge Spaces – Evolutionary Insights and Portfolio Analysis for “Smart” Development & Specialisation Policies I (Room A123)

Chair: Dieter F. Kogler

Promoting Regional Growth: Relatedness, Revealed Comparative Advantage and the Product Space	Philip McCann, Viktor A. Venhorst, Gloria Cicerone
Anchors Away! The Evolution of an ICT Cluster During and After the Sinking of its Flagship Company	Dieter Kogler, Greg Spencer, Peter Kedron
Economic effects of smart specialization	Attila Varga, Norbert Szabó, Tamás Sebestyén

Session 3.4. Thursday 1st February, 10:30 - 11:45

Knowledge complexity II (Room A112)

Chair: Pierre-Alexandre Balland, Tom Broekel

An information-theoretic approach to relatedness, diversity and urban scaling Alje van Dam, Koen Frenken

Measuring technological complexity - Current approaches and a new measure of structural complexity Tom Brökel

Defining, Measuring, and Examining Knowledge and Location Complexity John Cantwell, Lucia Piscitello, Jessica Salmon

Session 3.5. Thursday 1st February, 10:30 - 11:45

Migration and Innovation I (Room A116)

Chair: Andrea Morrison

Migrants as catalysts of knowledge flows and foreign direct investment: Evidence from an allocation policy in Germany Alexander Jaax, David Nguyen

Do cross-border workers from France, Belgium and Germany foster in the same ways firm's innovation activities? Empirical evidence from Luxembourg Vincent Dautel

Migration and Technological Diversification of US cities in the ages of mass migration Andrea Morrison, Sergio Petralia

Session 3.6. Thursday 1st February, 10:30 - 11:45

Innovation, variety, regions, and networks (Room A119)

Chair: Francesco Capone

The effect Related and Unrelated Variety on Regional Innovation in Brazil Suelene Mascarini, Renato Garcia, Ariana Ribeiro Costa

Innovation, Science and Employment Growth: A Spatial Analysis for Germany Thomas Brenner

The different roles of proximity in multiple network relationships. Evidence from the cluster of High Technology applied to Cultural Goods in Tuscany Francesco Capone, Luciana Lazzarotti

Session 3.7. Thursday 1st February, 10:30 - 11:45

Research & Development (Room A113)

Chair: René Belderbos

Academic inventors and the generation of green technologies. A regional analysis of Italian patent data

Alessandra Scandura, Francesco Quatraro

Location, Location, Location: Do Universities Matter for Foreign R&D?

Dolores Añón Higón, Alfonso Diez Minguela

Scientific Research and the Location of Foreign R&D Investments: Quality, Basicness, and Research versus Development

Nazareno Braitto, Jian Wang, René Belderbos

Session 3.8. Thursday 1st February, 10:30 - 11:45

Mobility, networks and innovation (Room A122)

Chair: Ariana Costa

Status and the disassortative growth of knowledge networks in industrial clusters. Evidence from a superstar wine cluster in Italy.

Amir Maghssudipour, Elisa Giuliani, Pierre-Alexandre Balland

The Brain Circulation Network in the Life Sciences

Luca Verginer, Massimo Riccaboni

The mobility of skilled workers and innovation in Brazil

Ariana Costa, Renato Garcia

Parallel sessions 4.

Session 4.1. Thursday 1st February, 14:15 - 15:55

Foreign Investment, Multinationals and Innovation in advanced and emerging economies I (Room A113)

Chair: Riccardo Crescenzi, Alexander Jaax

Determinants of the location choice of foreign investments in R&D across time and industries Giacomo Damioli, Daniel Vertesy

Does Host Market Regulation Induce Cross Border Environmental Innovation? Giovanni Marin, Antonello Zanfei

IPR protection and Foreign R&D Investment Location Choices: Convergence, inventor mobility, and relative technological capability Joseph (Jinhyuck) Park, René Belderbos

Technological capabilities and organization of global value chains Maciej Grodzicki, Tommaso Ciarli, Maria Savona

Session 4.2. Thursday 1st February, 14:15 - 15:55

Industrial districts, clusters and the geography of innovation I (Room A110)

Chair: José Lu s Herv s

To overcome path dependencies in a regional context Antje Klitkou, Teis Hansen, Marco Capasso

Approaching multinationals in clusters from different perspectives: making sense of MNEs in geographic spaces Annalisa Caloffi, Silvia Sedita, Fiorenza Belussi, Jose-Luis Hervas-Oliver, Gregorio Gonzales

What sustains innovation in industrial district firms? A focus on internationalization and collaboration processes. Evidence from Italy Marco Bettiol, Maria Chiarvesio, Eleonora Di Maria, Debora Gottardello

How MNEs interact and impact Marshallian industrial districts? Jose Antonio Belso, Jose-Luis Hervas-Oliver

Session 4.3. Thursday 1st February, 14:15 - 15:55

Knowledge complexity III (Room A112)

Chair: Pierre-Alexandre Balland, Tom Broekel

Economic Complexity & Urban Scaling	Pierre-Alexandre Balland, César Hidalgo, Cristian Jara-Figueroa, Sergio Petralia, David Rigby, Mathieu Steijn
Product Ecosystems and the Arrow of Development	Neave O'Clery, Muhammed A. Yildirim, Ricardo Hausmann
Local Interactions, Collective Information Processing and Urban Growth	Joakim Wernberg
Measuring the Economic Complexity at the sub-national level using international and interregional trade	Santiago José Pérez Balsalobre, Carlos Llano Verduras, Jorge Díaz Lanchas

Session 4.4. Thursday 1st February, 14:15 - 15:55

Migration and Innovation II (Room A116)

Chair: Stefano Breschi

Migration and local innovation: post-USSR inventors in Europe and Israel.	Edoardo Ferrucci
Migration and Product Complexity in Italian Provinces	Daniela Maggioni, Elizabeth J. Casabianca, Alessia Lo Turco
Migration and Innovation: Big brother is watching your country of origin	Julien Seaux, Stefano Breschi, Francesco Lissoni, Andrea Vezzulli
Highly Skilled Migration And Technological Diversification In Metropolitan Areas	Federico Caviggioli, Paul Jensen, Giuseppe Scellato

Session 4.5. Thursday 1st February, 14:15 - 15:55

Place and Entrepreneurship in the Era of Digital Platforms (Room A109)

Chair: Sami Mahroum, Koen Frenken, Erik Stam

The importance of proximity and location for freelancing on digital platforms	Darja Reuschke, Markieta Domecka
Seed accelerators as local anchors in trans-locally shared practices: Contesting the boundaries of entrepreneurial ecosystems	Oliver Ibert, Andrea Kuebart
Your Uber is arriving now: An Institutional Analysis of Local Introductions of Uber's Hailing Services	Matthijs Punt, Van Kollem, Koen Frenken, Jarno Hoekman
Platform Innovation and Institutional Entrepreneurship. The case of UberPop in The Netherlands	Koen Frenken, Peter Pelzer, Wouter Boon

Session 4.6. Thursday 1st February, 14:15 - 15:55**Industries and innovation (Room A119)****Chair: Alessia Matano**

Export innovation The role of new imported inputs and multinationality Davide Castellani, Claudio Fassio

From brawn to brains: manufacturing-KIBS interdependency Davide Consoli, Mabel Sánchez Barrioluengo, Dioni Elche

Triumph of the Nursery City: How the ICT Revolution set back the Clock on the Product Life Cycle Mathieu Steijn, Frank G. Van Oort, Hans Koster

China's Import Competition and Innovation: the Role of Unions Alessia Matano, Paolo Naticchioni

Session 4.7. Thursday 1st February, 14:15 - 15:55**The geography of trademarks (Room A123)****Chair: Carolina Castaldi, Sandro Mendonça**

Marked variety: an analysis of patent and trademark variety of Dutch regions Marcel Seip, Carolina Castaldi, Meindert Flikkema

An anatomy of trademarking by firms in the united states Nikolas Zolas, Emin M. Dinlersoz, Nathan Goldschlag, Amanda Myers

Emerging market Multinational Enterprises taking over United States trademarks: predating or leveraging? Arianna Martinelli, Carolina Castaldi, Elisa Giuliani

City trademarking: Dynamic differentiation in twelve large European cities Sandro Mendonça, Andreia Sousa, João Gomes

Parallel sessions 5.

Session 5.1. Thursday 1st February, 16:20 - 18:25

Foreign Investment, Multinationals and Innovation in advanced and emerging economies II (Room A113)

Chair: Riccardo Crescenzi, Alexander Jaax

Cities, Multinationals and Start-ups	Martin Andersson, Davide Castellani, Jing Xiao
Productivity Effects Of R&D Internationalization – Evidence For European MNCs	Philipp Marek, Davide Castellani, Björn Jindra
The Benefits From Foreign Direct Investment In A Cross-Country Context: A Meta-Analysis	Randolph Bruno, Nauro F. Campos, Saul Estrin
Catalysts of Regional Innovation: How Foreign Firms allow New Places to Join the Global Innovation Contest	Riccardo Crescenzi, Arnaud Dyevre, Frank Neffke
Geographic segmentation and firms' innovation strategies	Sara Amoroso

Session 5.2. Thursday 1st February, 16:20 - 18:25

Innovative Data for Economic Analysis (Room A122)

Chair: Maryan Feldman, Ludovic Dibiaggio

The making of cluster ecosystems: An exploratory framework for monitoring development and assessing performance	Anne ter Wal, Chris Corbishley, Mark Dodgson, David Gann
Innovative Events	Max Nathan, Anna Rosso
Amenities, accessibility and inventors' mobility in urban areas: Spatial analysis using OpenStreetMap	Nadine Massard, Clément Gorin
The effect of knowledge and social interdependencies on inventor outward mobility	Stefano Breschi, Daniel Tzabbar, Bruno Cirillo
Tracing the international inventive activity in the U.S.	Sergio Petralia, Andrea Morrison, Carolina Pan

Session 5.3. Thursday 1st February, 16:20 - 18:25**Industrial districts, clusters and the geography of innovation II (Room A110)****Chair: Rafael Boix**

Eco-innovation practices in the Brazilian ceramic tiles industry: the case of Santa Gertrudes' cluster	Gabriela Scur, William J. V. de Souza
Innovation based clusters resulting from knowledge transfer between universities and firms	Rui M. Cartaxo
Synergy in the Knowledge Base of US Innovation Systems at National, State, and Regional Levels: The Contributions of High-Tech Manufacturing and Knowledge-intensive Services	Loet Leydesdorff, Caroline S. Wagner, Igone Porto, Jordan A. Comins, Fred Phillips
New places of innovation, through the mutualization of services	Gwénaél Dore, André Torre, Frédéric Wallet
Industrial districts and technological innovation: revisiting the I-district effect	Rafael Boix, Vittorio Galletto, Fabio Sforzi

Session 5.4. Thursday 1st February, 16:20 - 18:25**Mixed-methods, networks and the geography of innovation (Room A112)****Chair: Bastien Bernela, Marie Ferru, Michel Grossetti**

The geography of eco-innovations in rural areas: what role of resources and networks	Amélie Gonçalves, Danielle Galliano, Pierre Triboulet
The spatiality of SMEs' cooperation for innovation in the digital age: A mixed-method study	Francois Deltour, Sébastien Le Gall, Virginie Lethiais
Geography of Resources for Innovation: What is the impact of Digital Technologies? A mixed method study	Sébastien Le Gall, Virginie Lethiais, Nicolas Jullien
Actors of change for regional path creation: who they are and how they behave	Joan Crespo
"Quantified narrations": A mixed-method to study the relational dimension of the geography of innovation	Michel Grossetti, Bastien Bernela, Marie Ferru

Session 5.5. Thursday 1st February, 16:20 - 18:00**New regional industrial path development beyond related variety I (Room A116)****Chair: Björn Asheim**

Unrelated knowledge combinations: Unexplored potential for regional industrial path development	Bjørn Asheim, Michaela Trippl, Markus Grillitsch
New path development beyond the “single path view”: Inter-path relationships in regional contexts	Alexandra Frangenheim, Michaela Trippl
Towards a process-oriented theoretical framework of industrial path development	Lea Fuenfschilling, Johan Miörner, Michaela Trippl
R&D Policy and Technological Trajectories of Regions: Evidence from the EU Framework Programmes	Wolf-Hendrik Uhlbach, Pierre-Alexandre Balland, Thomas Scherngell

Session 5.6. Thursday 1st February, 16:20 - 18:25**The Geography of Scientific Knowledge Diffusion (Room A123)****Chair: Fabio Montobbio**

Deep learning, deep change? Geographical aspects of technological disruption in Machine Learning research	Joel Klinger, Juan Mateos-Garcia, Konstantinos Stathoulopoulos
The Geography of Science in the South: is there a Latin American Research Area?	Lorenzo Cassi, Andrea Morrison
Citizens of Nowhere? Examining the geography of foreign and native-born academics' engagement with external actors	Michael Kitson, Cornelia Lawson, Ammon Salter, Alan Hughes
The Geographers' Geography	Teodora Erika Uberti, Mario A. Maggioni, Marco Colagrossi
Topics and International Specialization in the Economic Mainstream	Fabio Montobbio, Paolo Racca, Magda Fontana

Session 5.7. Thursday 1st February, 16:20 - 18:25**Relatedness and the geography of innovation II (Room A119)****Chair: Francesco Quatraro**

Scaling of Atypical and Typical Knowledge Combinations in American Metropolitan Areas from 1836 to 2010	Lars Mewes
Skill-based measures of related variety and long-term regional development: A critical perspective	Mikhail Martynovich, Kadri Kuusk
Growth in regions, knowledge bases and relatedness: some insights from the Italian case	Niccolò Innocenti, Luciana Lazzeretti
What Do We Measure When We Measure Regional Relatedness	Carlo Bottai
Explaining the industrial variety of newborn firms: The role of cultural diversity	Francesco Quatraro, Alessandra Colombelli, Anna D'Ambrosio, Valentina Meliciani

Session 5.8. Thursday 1st February, 16:20 - 18:00**Entrepreneurship, innovation and regional development (Room A121)****Chair: Valentina Tartari**

Creative industries and entrepreneurship: an application to developing and developed countries	Luciana Lazzeretti, Rafael Boix, Daniel Sánchez Serra
Agglomeration, research and development, and entrepreneurship	Ugo Rizzo, Nicolò Barbieri, Laura Ramaciotti
Knowledge-based service economy and firm entry: An alternative to the Knowledge Spillover Theory of Entrepreneurship	Alexandra Tsvetkova, Mark Partridge
The role of universities on local entrepreneurial ecosystems	Valentina Tartari, Scott Stern

Session 5.9. Thursday 1st February, 16:20 - 18:00**Geography of Sustainability Transitions III (Room A109)****Chair: Marco Capasso, Antje Klitkou**

A synthesis of the recent scientific findings on the decoupling of environmental pressures from economic growth	Marco Capasso, Teis Hansen, Jonas Heiberg, Antje Klitkou, Markus Steen
Collaboration between community-led initiatives and local governments: from a wicked problem to effective transformative social innovation?	Pedro Macedo
Transitioning to the bioeconomy through bioclusters: the role of place	Ram Kamath, David Ayrapetyan, Frans Hermans
The alternative food networks and the transition of agri-food systems towards sustainability. The case of Italy	Filippo Randelli, Lorenzo Corsini, Benedetto Rocchi, S. Giampaolo

Parallel sessions 6.

Session 6.1. Friday 2nd February, 9:00 - 10:40

Open creative labs. Platforms of local and global collaborative innovation and entrepreneurship I (Room A109)

Chair: Ignasi Capdevila, Oliver Ibert

The role of coworking space managers in enabling online and offline connections for new entrepreneurial projects	Alexandre Blein
The local and global knowledge dynamics through communities. The case of communities of makers and social entrepreneurs in Barcelona.	Ignasi Capdevila
Open Social Innovation Dynamics and Impact: Exploratory Study of a Fab Lab Network	Thierry Rayna, Ludmila Striukova
Co-innovation spaces as chance for non-profit organizations in the local context	Madeleine Wagner

Session 6.2. Friday 2nd February, 9:00 - 10:40

Innovation, local labour markets and regional development I (Room A112)

Chair: Tom Kemeny, Neil Lee

Agglomeration, skills and wages	László Czaller, Zoltán Hermann
Innovation, Technological Variety and Income Inequality: Evidence from European regions	Carolina Castaldi, Önder Nomaler, Muhammad Yorga Permana, Floor Alkemade
The Wider Impacts of High-Technology Employment: Evidence from U.S. Cities	Tom Kemeny, Taner Osman
Tasks, Technology and Education: Bringing the Race to Data	Francesco Vona, Davide Consoli, Giovanni Marin, Francesco Rentocchini

Session 6.3. Friday 2nd February, 9:00 - 10:40

Industrial districts, clusters and the geography of innovation III (Room A110)

Chair: Silvia Sedita, José Luís Hervás, Rafael Boix

The Evolution of Knowledge Networks in times of socio-economic transition: The Case of the Berlin Biotechnology Cluster	Milad Abbasiharofteh, Tom Brökel
The birth and development of Italian automotive industry (1894-2015) and the Turin car cluster	Pier Paolo Patrucco, Aldo Enrietti, Aldo Geuna, Consuelo R. Nava
Firm location and global innovation networks (GIN): the case of the video games industry in southern Sweden	James McKeever, Roman Martin, Cristina Chaminade
Do Software & Videogames firms share same location characteristics across cities? Evidence from Barcelona, Lyon and Hamburg	Carles Méndez-Ortega, Josep-Maria Arauzo-Carod

Session 6.4. Friday 2nd February, 9:00 - 10:40**New Forms of Innovation: theoretical and empirical insights into dynamics of territorial and relational geographies I (Room A113)****Chair: Simone Strambach**

Innovation platforms fostering communities of practice in low carbon economy: Emerging practices and resources mobilization for place-based knowledge triangle integration in peripheral regions.	Cristian Matti, Julia Panny, Blanca Juan Agulló, Irene Vivas Lalinde
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Frugality and outreach: innovation in the Indian diagnostic devices market	Dimitri Gagliardi, Morten Rasmussen
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Innovative Local Greening through Frugal: Selected Cases from South Africa's Blue Economy	Johan Spamer
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Territorial dynamics of social innovation diffusion	Hugues Jeannerat, Anna Butzin
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Session 6.5. Friday 2nd February, 9:00 - 10:40**New regional industrial path development beyond related variety II (Room A116)****Chair: Markus Grillitsch**

Shaping regional growth paths	Markus Grillitsch, Markku Sotarauta
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New regional industrial path development resulting from entrepreneurial activity and innovation system changes	Arne Isaksen
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Institutional Agency in New Path Development: Towards Self-Driving Cars in West Sweden	Johan Miörner
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Understanding the role of the local in technological innovation systems: Research-based firms and regional development in Sweden and the UK	Helen Lawton Smith, Asa Lindholm Dahlstrand, Sharmistha Bagchi-Sen, Laurel Edmunds
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Session 6.6. Friday 2nd February, 9:00 - 10:40**Intellectual Property and Economic Geography I (Room A119)****Chair: Kyriakos Drivas**

The impact of patent citations on patent renewal	Per Botolf Maurseth
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Distance and the Timing of Licensing	Laurie Ciaramella, Gaétan de Rassenfosse
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Patents, Trade And Foreign Direct Investment	Ilya Rudyk, Yann Ménière
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Regional European performances in Health R&I: Understanding possible causes of the divide among EU Regions	Monica Plechero, Claudio Cozza, Raquel Ortega-Argilés
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Session 6.7. Friday 2nd February, 9:00 - 10:40**The Role of Universities in Innovation and Regional Development I (Room A123)****Chair: Rune Dahl Fitjar, Paul Benneworth, David Charles**

Graduate start-ups in the regional contexts – opportunity versus necessity?	Chiara Marzocchi, Mabel Sánchez Barrioluengo, Fumi Kitagawa
How regional is UK university engagement with business?	David Charles
More Than A Feeling. Universities That Foster Information And Knowledge In Industrial Clusters	Josep Capó-Vicedo, Luis Martinez-Chafer, F.Xavier Molina-Morales, David Valiente-Bordanova
The impact of the establishment of a university on the regional labour market for graduates	Gerwin Evers

Session 6.8. Friday 2nd February, 9:00 - 10:40**Networks, proximity and knowledge flows II (Room A122)****Chair: Andrés Rodríguez-Pose**

Knowledge Persistence in Regional Networks	Michael Fritsch, Moritz Zoellner
Proximity and its Impact on the Formation of Technical Networks of Product and Process Innovation	Alessandro Rosiello, Owais Anwar Golra, Richard T. Harrison
Agglomeration, R&D spillovers and inventor networks: Evidence from a plant-level productivity analysis	Pascale Roux, Anne Plunket, Nicolas Carayol, Marie Lebreton
Innovation modes of collaboration and firm level innovation. Does “more of all” really benefit firms?	Andrés Rodríguez-Pose, Silje Haus-Reve, Rune Dahl Fitjar

Parallel sessions 7.

Session 7.1. Friday 2nd February, 11:05 - 12:45

Intellectual Property and Economic Geography II (Room A119)

Chair: Ioannis Kaplanis

Inequality and Demand-Driven Innovation: Evidence from International Patent Applications	Florian Seliger, Sabrina Dorn, Christian Kiedaisch
International Collaboration and the Likelihood of Obtaining a Patent	Kyriakos Drivas, Ioannis Kaplanis
“Together we can do so much”: A patent analysis on the impact of international collaboration on quality of inventions in terms of geographical and technological diversity	Roberto Mavilia, Luigi Orsenigo, Cristina Bellotti, Luigi Paolo Benito Leone
The drivers of regional innovation in periods of booms and busts: the case of Greece	Ioannis Kaplanis, Theano-Maria Tagaraki

Session 7.2. Friday 2nd February, 11:05 - 12:45

Innovation, local labour markets and regional development II (Room A112)

Chair: Davide Consoli, Maria Savona

Employment Polarization in Dutch Local Labor Markets: The Dutch Case	Nikolaos Terzidis, Raoul van Maarseveen, Raquel Ortega-Argilés
A New Categorization of the U.S. Economy: The Role of Supply Chain Industries in Innovation and Economic Performance	Mercedes Delgado, Karen G. Mills
The dark side of tech? Innovation and employment polarisation in US labour markets	Neil Lee, Tom Kemeny, Andrés Rodríguez-Pose
Innovation and employment dynamics in British local labour markets	Maria Savona, Tommaso Ciarli, Alberto Marzucchi, Edgar Salgado

Session 7.3. Friday 2nd February, 11:05 - 12:45

Industrial districts, clusters and the geography of innovation IV (Room A110)

Chair: Silvia Sedita

An extended theory of Marshallian industrial districts	Roberto Grandinetti
Cluster advantage - A multilevel analysis of the cluster and firm performance relationship	Nils Grashof
Creation and persistence of ties in cluster knowledge networks	Sándor Juhász, Balázs Lengyel
The invisible college of cluster theory: a bibliometric core-periphery analysis of the literature.	Annalisa Caloffi, Luciana Lazzeretti, Silvia Rita Sedita
Endogenous cognitive processes and innovative capacities in industrial districts	Marco Bellandi, Lisa De Propriis, Claudia Vecciolini

Session 7.4. Friday 2nd February, 11:05 - 12:45

New Forms of Innovation: Theoretical and empirical insights into dynamics of territorial and relational geographies II (Room A113)

Chair: Anna Butzin

Actors and interactions in social innovation	Judith Terstriep, Anna Butzin, Hannah Green
Networking towards sustainable tourism: Social capital and innovations between green growth and degrowth strategies	Sabine Panzer-Krause
You have to through the dices if you want to play	Suntje Schmidt

Session 7.5. Friday 2nd February, 11:05 - 12:45

New regional industrial path development beyond related variety III (Room A116)

Chair: Michaela Trippi

The technology shift thesis. Understanding long term growth and transformation in a regional system	Karl-Johan Lundquist, Lars-Olof Olander, Mikhail Martynovich
Proximity and the trust formation process	Magnus Nilsson
The visible hand of cluster policy makers: An analysis of Aerospace Valley (2006-2015) using a place-based network methodology	Jérôme Vicente, Delio Lucena Piquero
Shaping innovation networks in the new media sectors: The trajectories of the Regional Innovation Systems in Beijing and Bangalore	Monica Plechero, Mandar Kulkarni, Cristina Chaminade, Balaji Parthasarathy

Session 7.6. Friday 2nd February, 11:05 - 12:45**Geography of science (Room A109)****Chair: Alfons Palangkaraya**

Tacit Knowledge, Proximity and the Diffusion of Science: the case of Singapore	Albert G.Z. Hu
Deconcentration and diversification of the places of production of scientific publications: volume of publications, co-authorship networks, citations, 1999-2014	Marion Maisonobe, Michel Grossetti, Beatrice Milard, Denis Eckert, Laurent Jegou
Geography of science: an empirical study to disentangle geographical and cognitive mechanisms in the accumulation of scientific knowledge	Mignon Wuestman, Jarno Hoekman, Koen Frenken
Does International Mobility Improve Research Performance?	Alfons Palangkaraya, Elizabeth Webster

Session 7.7. Friday 2nd February, 11:05 - 12:45**The Role of Universities in Innovation and Regional Development II (Room A123)****Chair: Rune Dahl Fitjar, Paul Benneworth, David Charles**

Efforts in Collaborative Design of a Smart Specialisation Strategy	Liliana Fonseca, Carlos Rodrigues
Avoiding the 'strategic black hole' in regional innovation coalitions - Reflections from the Twente region, East Netherlands	Lisa Nieth
University knowledge and start-up's growth: evidence from Europe	Massimiliano Guerini, Andrea Bonaccorsi, Massimo G. Colombo, Cristina Rossi-Lamastra
Social Entrepreneurship and Organizational Support: Reflections from University of Twente, The Netherlands	Ridvan Cinar

Session 7.8. Friday 2nd February, 11:05 - 12:45**Networks, proximity and knowledge flows II (Room A122)****Chair: Laurent Bergé**

Knowledge Cohesion in European Regions	İ. Semih Akçomak, Umut Yılmaz Çetinkaya, Erkan Erdil
An Agent Based Model for Simulating Knowledge Network Formation	Tamás Sebestyén, Attila Varga
Orchestrating public-private R&D networks the effect of government-affiliated intermediary organizations as a policy intervention	Maya J. Bogers, Matthijs J. Janssen
How do inventor networks affect urban invention?	Laurent Bergé, Nicolas Carayol, Pascale Roux

Parallel sessions 8.

Session 8.1. Friday 2nd February, 13:40 - 14:55

Eco-innovation and sustainability (Room A110)

Chair: Jose Garcia-Quevedo

“Un-packing” eco-design: new evidence on eco-innovation and design from the Eurobarometer survey Claudia Ghisetti, Sandro Montresor

Going Green: Environmental Regulation and Collaboration Networks Fabrizio Fusillo, Francesco Quatraro, Stefano Usai

Knowledge flows and the creation of technologies in renewable energies at the regional level in Europe Diego B. Ocampo Corrales, Rosina Moreno, Jordi Suriñach Caralt

Session 8.2. Friday 2nd February, 13:40 - 14:55

Foreign Investment, Multinationals and Innovation in advanced and emerging economies III (Room A113)

Chair: Riccardo Crescenzi, Alexander Jaax

Make America Innovative Again and the "Magic" of Foreign Investment Roberto Ganau, Riccardo Crescenzi

Does Proximity to Foreign Invested Firms Stimulate Productivity Growth of Domestic Firms? Firm-level Evidence from Vietnam Stephan Kyburz, Huong Quynh Nguyen

Global Value Chains and Local Sourcing: An empirical analysis on Sub-Saharan Africa and Vietnam Roberta Rabelotti, Marco Sanfilippo, Adnan Seric, Andrea Presbitero, Vito Amendolagine

Session 8.3. Friday 2nd February, 13:40 - 14:55

Innovation, Technological Change and Economic Growth I (Room A112)

Chair: Thomas Brenner

An Integral Evaluation of Countries Economic Sectors' Complexity Based on an Input-Output Statistics Analysis Inga Ivanova, Yury Dranev

Do innovative research institutes foster regional economic growth? An empirical analysis for German regions Jonathan Eberle, Thomas Brenner

What's good for the goose ain't good for the gander: cock-eyed counterfactuals and the performance effects of R&D Nanditha Mathew, Emanuele Pugliese, Alex Coad

Session 8.4. Friday 2nd February, 13:40 - 14:55

Knowledge Spaces – Evolutionary Insights and Portfolio Analysis for “Smart” Development & Specialisation Policies II (Room A123)

Chair: Dieter F. Kogler

Smart Scientific Specialisation; An analysis of knowledge production in European regions 2000-2014	Gaston Heimeriks, Wout Lamers, Ingeborg Meijer, Alfredo Yegros
The Production of Renewable Energy Knowledge in Geographic, Social, and Knowledge Space	Peter Kedron, Yun Zhao
Knowledge space evolution and the adaptive resilience of European economies	Silvia Rocchetta, Dieter Kogler, Andrea Mina

Session 8.5. Friday 2nd February, 13:40 - 14:55

Migration and Innovation III (Room A116)

Chair: Francesco Lissoni

Spatial trajectories of migrant inventors. An international perspective	Gabriele Pellegrino
How Immigration Affects Innovation: Evidence from the Closing of America's Borders to Southern and Eastern Europe	Kirk Doran
Foreign Inventors in the US and EU 15: Diversity and Productivity	Francesco Lissoni, Edoardo Ferrucci

Session 8.6. Friday 2nd February, 13:40 - 14:55

Open creative labs. Platforms of local and global collaborative innovation and entrepreneurship II (Room A109)

Chair: Suntje Schmidt, Raphaël Suire

Urban creative labs sharing the new urban economics' challenges. Co-working and co-planning the city of Rome.	Stefania Fiorentino
Coworking spaces in innovative environments compared: Does the local-regional embeddedness matter?	Clément Marinos, Gerhard Krauss, Guy Baudelle
Open Creative Labs: The Institutionalization of User Innovation?	Verena Brinks

Session 8.7. Friday 2nd February, 13:40 - 14:55

Innovation and Technological Change (Room A119)

Chair: Roberto Zotti

The pattern of structural change: testing the Product Space framework

Nicola D. Coniglio, Raffaele Lagravinese, Davide Vurchio, Massimo Armenise

The effect of innovation and education on growth and income distribution

Bogang Jun, Pier Paolo Saviotti, Andreas Pyka

First, second and third tier universities: academic excellence, local knowledge spillovers and innovation in Europe

Cristian Barra, Ornella Wanda Maietta, Roberto Zotti

Parallel sessions 9.

Session 9.1. Friday 2nd February, 15:25 - 16:40

Evaluating individual and territorial impacts of public support to collaborative R&D and Innovation II (Room A110)

Chair: Corinne Autant-Bernard, Nadine Massard

RTI policy for R&D collaborations and its effects on Key Enabling Technologies: Regional evidence from the 7th EU Framework Programme	Martina Dünser, Iris Wanzenböck, Thomas Scherngell
Identifying the Effects of Place-Based Policies – Causal Evidence from Germany	Matthias Brachert, Eva Dettmann, Mirko Titze
Collaboration Dynamics within Clusters and Impact Analysis	Nadine Massard, Rokhaya Dieye, H. Bouscasse

Session 9.2. Friday 2nd February, 15:25 - 16:40

Foreign Investment, Multinationals and Innovation in advanced and emerging economies IV (Room A113)

Chair: Riccardo Crescenzi, Alexander Jaax

Going out to innovate more at home: China's Outward FDI and Innovation of Listed Firms	Stephan Worack, Anthony Howell, Jia Lin
Multinationals, Labour Mobility and Spillovers in Emerging Countries: An Analysis at the Patent Level.	Valerio Sterzi, Ernest Miguelez
Foreign firms as agents of structural change in the dependent market economy of Hungary	Zoltán Elekes, Ron Boschma, Balázs Lengyel

Session 9.3. Friday 2nd February, 15:25 - 16:40

Innovation, Technological Change and Economic Growth II (Room A112)

Chair: Francisco Javier Santos-Arteaga

Innovation, Localized Knowledge Spillovers and the British Industrial Revolution, 1700-1850	Alessandro Nuvolari, Ugo Gragnolati
R&D policy in the economy with structural change and heterogeneous spillovers	Anton Bondarev
Technological Evolution of Industrial Clusters within Unequal Common Markets: The Effects of Technological Assimilation and Learning	Francisco J. Santos-Arteaga, Madjid Tavana, Debora Di Caprio

Session 9.4. Friday 2nd February, 15:25 - 16:40**Knowledge Spaces – Evolutionary Insights and Portfolio Analysis for “Smart” Development & Specialisation Policies III (Room A123)****Chair: Silvia Rocchetta**

Do Countries Benefit from Entering Unrelated Activities?	Ron Boschma, César Hidalgo, Dominik Hartmann, Flavio Pinheiro, Aamena Alshamsi
The Geographical and Technological Roots of German Bio Economy	Muhamed Kudic, Mariia Skolnykova
Relatedness and the resource curse: Is there a liability of relatedness?	Rune Dahl Fitjar, Bram Timmermans

Session 9.5. Friday 2nd February, 15:25 - 16:40**Migration and Innovation IV (Room A116)****Chair: Andrea Morrison**

The diffusion of international co-authors in the South African science system	Moritz Müller, Robin Cowan, Helena Barnard
Strangers in Strange Land	Sami Mahroum, Georg Zahradnik, Bernhard Dachs
The mobility of star inventors within and across borders: a patent-level analysis in the US biotechnology industry	Ram Mudambi, Alessandra Perri, Vittoria G. Scalera

Session 9.6. Friday 2nd February, 15:25 - 16:40**The geography of eco-innovation: transitioning to Smart and Sustainable Specialization Strategies (Room A109)****Chair: Sandro Montresor, Francesco Quatraro**

Energy Turnaround in German Firms and regional Spillover Effects: What triggers the Diffusion of Renewable Energy?	Jens Horbach, Christian Rammer
Transition Towards a Green Economy in Europe: Innovation and Knowledge Integration in the Renewable Energy Sector	Chiara Conti, Maria Luisa Mancusi, Francesca Sanna-Randaccio, Roberta Sestini, Elena Verdolini
Green technologies and regional specialisation: a European patent-based analysis of the intertwining of technological relatedness and Key-Enabling-Technologies.	Sandro Montresor, Francesco Quatraro

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