IV° International Conference on Cluster Research [Online]

RETHINKING CLUSTERS

Sustainable and technological transitions in a network society





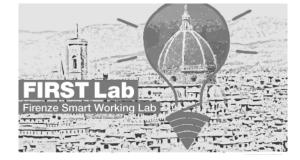


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RETHINKING CLUSTERS

We are clusters

INDEX

- 4 Greetings from local organizers
- 5 Co-organizers and topics
- 6 Scientific committee
- Keynote speakers
- 8 Facts for RC2021
- **PROGRAM Overview**
- PROGRAM September 22nd
- 16 PROGRAM September 23rd
- **VENUE: Universities**
- 22 History

GREETINGS FROM LOCAL ORGANIZERS



Welcome to the Università degli Studi di Firenze!

The workshop was the first in a series of events that ignited a movement that started from 2018 in Florence and continued over the years in Padua, Valencia and is still in development. This initiatives permit to consolidate a community of scholars interested in the cluster/industrial districts research and meet yearly in the annual international event.

Launched by three universities of Florence, Padua and Valencia and by the PhD in Development Economics and Local System (DELOS), the "Rethinking Clusters" project has in fact progressively expanded to include a community of researchers from many institutions discussing a number of issues related to clusters, industrial districts and geographical agglomerations.

The present volume mainly deals with the new research agenda on clusters/industrial districts research according to eight main themes. These range from cluster life cycles, through creativity, innovation, networks, cluster policy, internationalization, sustainability, finally to cluster variety and relatedness.



Luciana Lazzeretti

Full Professor in Economics and Management and founding director of the Post-graduate course in Economics and Management of Cultural Goods and Museums, University of Florence.

Coordinator of the Doctorate
Program 'Development Economics
and Local Systems' (DELoS), University
of Trento and Florence.



Francesco Capone

PhD, Associate Professor in Management at the Dept. of Economics and Management, University of Florence.

He is member of the Doctorate
Programme 'Developing Economics and
Local Systems' (DELoS), University of
Trento and Florence.



Annalisa Caloffi

Associate Professor at the Department of Economics and Management, University of Florence.

she held a PhD in Economics and management of firms and local systems at the University of Florence.



CO-ORGANIZERS AND TOPICS

Co-organizers

Rafael Boix José Luis Hervas-Oliver Silvia Rita Sedita

Local Organizing Committee

Luciana Lazzeretti Francesco Capone Annalisa Caloffi Niccolò Innocenti Stefania Oliva Martina Nannelli

Innovation is our focus.

We seek thought-provoking submissions from scholars in the social and scientific sciences, who are forging ahead with innovation to shift towards digitization and sustainability. We want to discuss contributions that develop innovative approaches in concepts, theory, methods or analysis and have deep or broad implications to inform transitions for inclusive, innovative and reflective societies, and that use observational, experimental or theory-driven modes of inquiry, either at the micro- or meso-level unit of analysis for the better understanding of place-based innovation. We are territories, firms and place- based innovation!

THEMES IN RC2021

This year the RC2021 conference (Online) will focus on the **technological and sustainable transitions that clusters, regions and countries are facing** and will have to face in the near future.

These transitions change the nature of production and exchange and create new modalities to embark in inter-organizational and inter-personal relationships and help contrasting inequalities. The conference will discuss the ways in which these changes are occurring, and the consequences they are likely to have on different places and societies, in advanced, emerging and developing market economies.

- Smart cities: between digital technologies and social inclusiveness
- Industrial districts, clusters and regions in sustainability transition
- Artificial intelligence, big data and places
- 4.0 manufacturing and the transformation of work
- The local/international dimension of Innovation networks
- Sustainable entrepreneurship and ecosystems
- Place-sensitive industrial innovation and policy
- Culture and creative industries in sustainability transitions
- The transition to sustainable tourism
- Resilience and sustainability of places in a post pandemic scenario
- The local/global dimension of inequalities: economic, gender, digital dimension



SCIENTIFIC COMMITTEE ____



Andrés Rodríguez-Pose

London School of Economics, UK

Annalisa Caloffi

University of Florence, Italy

Blanca De Miguel-Molina

Universitat Politècnica de València, Spain

Carles Boronat-Moll

Universitat Politècnica de València, Spain

Davide Parrilli

Bournemouth University, UK

Dieter Kogler

University College Dublin, Ireland

Ekaterina Turkina

HEC, Montreal

Eleanora Di Maria

University of Padova, Italy

Fiorenza Belussi

University of Padova, Italy

Francesc-Xavier Molina Morales

Universitat Jaume I Castelló, Spain

Francesco Capone

University of Florence, Italy

Francisca Sempere-Ripoll

Universitat Politècnica de València, Spain

Gregorio Gonzalez Alcaide

University of Valencia, Spain

Isabel Díez

Universidad Complutense de Madrid, Spain

Jose Antonio Belso

Universidad Miguel Hernández, Spain

Jose Luis Hervas-Oliver

Universitat Politècnica de València, Spain

Leila Kebir

Université de Lausanne, Switzerland

Luciana Lazzeretti

University of Florence, Italy

María Angeles Montoro

Universidad Complutense de Madrid, Spain

Marival Segarra-Oña

Universitat Politècnica de València, Spain

Mercedes Delgado

MIT, USA

Michaela Trippl

University of Vienna, Austria

Philip Cooke

Bergen University College, Norway

Philippe Gugler

University of Fribourg, France

Rafael Boix Domenech

University of Valencia, Spain

Roberta Capello

Politecnico di Milano, Italy

Rune Dahl Fitjar

University of Stavanger, Norway

Silvia Sedita

University of Padova, Italy

Tito Crissien

Universidad de la Costa, Colombia



KEYNOTE SPEAKERS ____

We have the honor to present a great panel of Key Note scholars.





Mercedes Delgado is Associate
Professor of Strategy and
Innovation at Copenhagen
Business School and Research
Scientist at the MIT Innovation
Initiative.



Patrick Cohendet is full professor at HEC Montréal in the International Business Department.



André Torre is Research
Professor at the University
Paris-Saclay, and INRAE (Institut
National de Recherche pour
l'Agriculture, l'Alimentation et
l'Environnement).

FACTS FOR RC2021

RC2021 is respectfully balanced for gender equality

RC2021

93 papers +100 scholars



RETHINKING CLUSTERS

PROGRAM OVERVIEW ____



2	2
Wedn	esday

08:30 - 11:00	Parallel session 1 Rethinking paths in/and clusters Parallel session 2 Green innovations, transitions and sustainability Parallel session 3 Creative industries, tourism and cities in sustainability transitions		14:00 - 15:30	Innovation ecosystems, community and places	
				Speakers: Patrick Cohendet (HEC Montréal)	Discussant: Silvia Rita Sedita (University of Padova)
			15:30 - 16:00	Coffee break at Wonder.me	
11:00 - 11:20	Coffee break at Wonder.me		16:00 - 17:50	Parallel session 1 Rethinking paths in/and clusters Parallel session 2	
11:20 - 11:30	Welcome RC2021			Industry 4.0, innovations, manufacturing and servitisation Parallel session 3 Artificial intelligence, big data and places	
11:30 - 13:00	The Role of Location and Industry Clusters in Female Inventor Inclusion				
	Speakers: Mercedes Delgado (Copenhagen Business School and MIT)	Discussant: Jose Luis Hervas (Universitat Politècnica de València)	18:00 - 19:50	Parallel session 1 Rethinking paths in/and clusters Parallel session 2 Industrial districts Parallel session 3 Artificial intelligence, clusters ar	
13:00 - 14:00	Break / Lunch				

PROGRAM OVERVIEW ____





09:00 - 11:00	Parallel session 1 Networks, innovations and territory Parallel session 2 Smart cities, change, transitions and sustainability Parallel session 3 Culture and creative industries in sustainability transitions			
11:00 - 11:30	Coffee break at Wonder.me			
11:30 - 13:00	From clusters to circular economy: new paths to a sustainable territorial development			
	Speakers: André Torre (University Paris-Saclay, and INRAE)	Discussant: Annalisa Caloffi (University of Florence)		
13:00 - 14:00	Break / Lunch			
14:00 - 16:00	Parallel session 1 Networks, innovation and territory Parallel session 2 Industry 4.0, clusters and sustainability Parallel session 3 Technological space, regional specialisati	ion, diversification		

16:00 - 16:30	Coffee break at Wonder.me
16:30 - 18:10	Parallel session 1 Wine clusters and sustainability Parallel session 2 SS Regional Clusters and International Business in a de-globalizing world Parallel session 3 Multistakeholders and sustainability Parallel session 4 Book session
18:15	Acknowledgments and farewell

PROGRAM September 22nd

22 Wednesday 08:30 - 11:00

Session S1.

SS Rethinking paths in/and clusters (1)

Session S2.

Green innovations, transitions and sustainability

Session S3.

Creative industries, tourism and cities in sustainability transitions (1)

Mapping and exploring the path literature in economic geography and related social sciences: a bibliometric analysis

Robert Hassink; Han Chu

Who contribute to who? Unravelling the relationship between urban new path and regional cluster transformation

Shuaijun Xue

Agencies and their role in supporting path diversification in non-core regions; the case of renewable energy in Schleswig- Holstein

Camilla Chlebna; Robert Hassink; Meike Löhr; Jannika Mattes

Do new paths for clusters just need the right incentive? – Effects of R&D funding on changing knowledge heterogeneity in clusters

Robin Telge; Nils Grashof

From cluster life cycles and episodes of path development to a chain model

Maximilian Benner

The role of powerful incumbents in regional industrial evolution: shaping regional path development through change and maintenance agency

Simon Baumgartinger-Seiringer

Green technological diversification and international coinventor linkages

Nicoletta Corrocher; Simone Maria Grabner; Andrea Morrison.

Inverted U-shape effects of proactive environmental strategies in the context of an industrial cluster

Victor del-Corte-Lora; Luis Martinez-Chafer; Xavier Molina-Morales

Lessons from biocluster development for green path development: the role of the regional innovation system, governance and vision creation

Frans Hermans; David Ayrapetyan; Ram Kamath; Kerstin Wilde

Local development and sustainability: a bibliometric analysis of the literature

Silvia Sedita; Leila Kebir; Marjolaine Gros-Balthazard

Turning green. Mapping the green transition in Italian clusters

Federica Belfanti; Fernando G. Alberti; Massimo Riva

The Geography of green inventions in Italy

Francesco Capone; Niccolò Innocenti; Stefania Oliva; Luciana Lazzeretti What is the role of sharing economy for sustainable tourism? A critical literature review

Martina Nannelli; Stefania Oliva; Luciana Lazzeretti

Language as a cultural driver of place-based branding. An analysis on regional import of "made in Italy" goods

Marco Bellandi; Annalisa Caloffi; Letizia Donati; Amir Maghssudipour

Events and the city. A dynamic view from an organizational identity perspective

Daria Sarti

Covid pandemic measures as shock for cities and tourism

Yuri Yegorov

Formation and development of clusters of creative industries in Russia

Julia Artamonova

Thinking Outside the Cluster: New Stimuli from the Creative and Cultural Ecology

Manfredi de Bernard

Chair:

Sebastian Fastenrath, Robert Hassink and Michaela Trippl

Chair:

Francesco Capone

Chair:

Daria Sarti



11:00 - 11:20

Coffee break at Wonder.me

11:20 - 11:30

Welcome to the 2021 Rethinkign Cluster Conference Luciana Lazzeretti and Francesco Capone (University of Florence)

11:30 - 13:00

The Role of Location and Industry Clusters in Female Inventor Inclusion

Prof.

Mercedes Delgado (Copenhagen Business School and MIT)

Discussant:

Jose Luis Hervas (Universitat Politècnica de València)

14:00-15:30

Innovation ecosystems, community and places

Prof.

Patrick Cohendet (HEC Montréal)

Discussant:

Silvia Rita Sedita (University of Padova)

15:30 - 16:00

Coffee break at Wonder.me



16:00 - 17:50

Session S1.

SS Rethinking paths in/and clusters (2)

Session S2.

Industry 4.0, innovations, manufacturing and servitisation

Session S3.

Artificial intelligence, big data and places

The role of institutional gateways for forming connections between clusters: the example of Block71 in Singapore and San Francisco

Max-Peter Menzel; Jack L. Harris

Smart Specialisation: towards an outward looking approach

Michaela Trippl; Alessio Giustolisi

Jurisdictional advantage and industrial clustering: aligning industry, community and government

Nicolas A. Phelps; Ahmad Rifai; Nina Asterina; Rizqu Hadayani

Superstars, specialists, and scrappers: how cities use civic capital to compete in high-technology markets

Darius Ornston; Tijs Creutzberg; David A. Wolfe

Evolutionary economic geography, industrial symbiosis and green growth-oriented process. A small scale study of petrochemical firms in Korea's Ulsan-Mipo National Industrial

Mingeun Kang, Douglas Roger Gress

Enabling environmental sustainable ecosystems through Industry 4.0 technologies: an example from the steel sector

Laura Tolettini; Eleonora Di Maria

Territorial servitisation and hybrid local systems of production

Edoardo Baldoni, Lisa De Propris; Dimitri Storai

Hubbing of the Industry 4.0 aviation aluster as an example of clusters' external relations

Marta Gotz

The fourth Italy? Continuity and change in contemporary industry agglomeration

Stefania Fiorentino; Nicholas Phelps

The role of Industry 4.0 and open innovation practices in the renewal path of an industrial cluster

Aurora Carneiro Zen; Everson Spindler; Carlos Alberto Frantz dos Santos; Jose Luis Hervas-Oliver Robots and the complexity of jobs, tasks, and skills in Emilia- Romagna manufacturing firms

Roberto Antonietti; Luca Cattani; Francesca Gambarotto; Giulio Pedrini

Big Data for smart cities and citizen engagement: evidence from Twitter data analysis on Italian municipalities

Silvia Blasi; Silvia Rita Sedita; Edoardo Gobbo; Lorenzo Brigato

Al innovation and regional growth: evidence from Europe

Fabio Pieri; Francesco Venturini; Ioana Igna

The impact of Artificial Intelligence on the social science: the evolution of the studies in Regional Science according to a bibliometric approach

Luciana Lazzeretti; Niccolò Innocenti; Martina Nannelli

Chair:

Sebastian Fastenrath, Robert Hassink and Michaela Trippl

Chair:

Eleonora di Maria

Chair:

Niccolò Inoccenti

22 Wednesday 18:00 - 19:50

Session S1.

SS Rethinking paths in/and clusters (3)

Session S2.

Industrial districts

Session S3.

Artificial intelligence, clusters and eco-systems

Searching for regional economic resilience: new path creation through smart specialisation strategy

Stefania Oliva; Niccolò Innocenti; Luciana Lazzeretti

Transformative regional economic resilience: bouncing beyond in different regional contexts

Michaela Trippl; Arne Isaksen; Sebastian Fastenrath

A bibliometric study of regional economic resilience: what we learned so far

Vitor Klein Schmidt; Aurora Carneiro Zen

Rethinking the resilience of mature clusters

Nikolaus Steinböck; Nora Vossbeck; Sebastian Fastenrath; Michaela Trippl

Resilience taxonomy of Italian industrial districts
Michele Masulli

To own or not to own: the industrial district model at stakes!

Javier Ortega-Colomer; Xavi Molina Morales; Luis Martínez-Cháfer

Marshallian Industrial Districts in Italy: the end of a model or adaptation to the global economy?

Gabi Dei Ottati

Regional Disparities and Firms' Agglomerations in Italy

Stefania Miricola; Dimitrios Exadaktylos; Armando Rungi

Industrial agglomeration, cooperation and innovation performance: an empirical approach

Eduardo Sánchez García; Bartolomé Marco Lajara; Pedro Seva Larrosa; Lorena Ruiz Fernández; Esther Poveda Pareja; Javier Martínez Falcó

More about rare diamonds. Industrial districts and innovation in Spain and Italy

Francesco Capone; Rafael Boix-Domenech; Vittorio Galletto

Modeling clusters from the ground up: a web data approach

Christoph Stich; Emmanouil Tranos; Max Nathan

SME modes of innovation in European Catching-up Countries: The impact of STI and DUI drivers on technological innovation

Jose Luis Hervas-Oliver; Davide Parrilli; Francisca Sempere Ripoll

Ecological transition and cyber-physical universe:
Artificial Intelligence and the future of work
Mauro Lombardi

Healthy clusters in France and uncertainty around ecosystem boundaries

Roland Rizoulieres; Olivier Blin; Joanie Del Bano

Chair:

Sebastian Fastenrath, Robert Hassink and Michaela Trippl

Chair:

Rafael Boix

Chair:

Davidi Parrilli

PROGRAM September 23rd



09:00 - 11:00

Session S1.

Technological space, regional specialisation, diversification

sustainability

Smart cities, transitions and

Session S2.

happiness?

Gabija Baugirdaitė

sustainability transition

Ben Vermeulen

Session S3.

region

Culture and creative industries in sustainability transitions (2)

The influence of applicants in the Technological Space: evidence from German Regions

Stefano Basilico

The green restructurim of the Flåm tourism industry: a geographical perspective on institutional change Nora Geirsdotter Bækkelund

Smart nations- riding on the wave of technology and

sustainability trens or actually increasing citizens'

Creative clusters and creative work: applying the cultural ecosystem approach to rethink paths into, within and beyond creative clusters

Creative clusters, precarity and connectivity in the

Jessica Tanghetti, Roberta Comunian; Tamsyn Dent

Where has all the knowledge gone? Reflections on

Covid-19 era; the case of Milan and the Lombardy

Tamsyn Dent; Roberta Comunian; Jonathan Gross

Agglomeration, regional specialization and firm performance: unravelling the riddle

Jan Vang; Silvia Rita Segita; Nikita Baklanov; Kent WickstrømBrigato

technological diversification in European regions

The importance of scientific domains for

Balland Pierre-Alexandre; Ron Boschma

the U.S. in the Great Recession

Smart cities and sustainable development goals: the

theoretical linkages

Silvia Blasi; Ivan de Noni; Andrea Ganzaroli

institutions for structural change in the

Leaving no one behind? Transforming regional

Jessica Tanghetti; Maria Lusiani; Fabrizio Panozzo; Lauren England; Roberta Comunian

textile cluster dynamics from the Veneto region

The emergence of new regional technological specialisations: the role of actors and network portfolios

Iris Wanzenböck; Silvia Rocchetta; Dieter F. Kogler; Keungoui Kim

Regional resilience and cluster strenght: The case of

Viviana Elizabeth Zárate Mirón; Rosina Moreno.

Revealing preferential circulations: How the uses of places serve collective innovation

Etienne Capron; Dominique Sagot-Duvauroux; Raphaël Suire

Overeducation of PhDs in Italy: an analysis by gender

Valentina Tocchioni; Alessandra Petrucci

Does gender mater in CCIs? Understanding the relationship between characteristics of CCIs and female career advancement

Luciana Lazzeretti; Stefania Oliva; Martina Nannelli

Chair:

Silvia Sedita

Chair: Silvia Blasi Chair: Stefania Oliva

RETHINKING **CLUSTERS**



11:30 - 13:00

From clusters to circular economy: new paths to a sustainable territtorial development

Prof.

André Torre (University Paris-Saclay, and INRAE)

Discussant:

Annalisa Caloffi (University of Florence)

14:00 - 16:00

Session S1.

Startups, unicorns, ecosystems and innovation

University-Industry interaction and firms' innovative performance evidence from the biopharmaceutical industry

Anna Giunta; Eleonora Pierucci; Davide Vurchio

Who's born today? Industrial structure and typologies of startups

Leonardo Mazzoni; Niccolò Innocenti

Impact evaluation of start-up innovation policies: evidence from a natural experiment

Michele Cantarella; Nicolò Fraccaroli; Roberto Volpe

Path constitution of unicorn startups in innovation ecosystems

Matheu Eurico Soared de Noronha, Rosemeire de Souza Vieria Silvamath; Silvio Luis de Vasconcellos; Cristina Doritta Rodrigues

Startups ecosystem and innovation: objectives and mirror of metropolitan policies

Nathalie Gaussier: Claude Lacour: Fabien Nadou:

Chair

Leonardo Mazzoni, Niccolò Innocenti

Session S2.
Industry 4.0, clusters and sustainability

Comparing souther european districts for digitalizing: what type of policy initiatives work?

Jose Luis Hervas- Oliver

Stepping-up innovation in manufacturing firms: knowledge combinations in an Italian local productive system

Monica Plechero; Markus Grillitsch

Industrial Districts and the challenge of technolgies 4.0: between absorption and dissemination

Niccolò Fiorini; Tommaso Pucci; Elena Casprini; Lorenzo Zanni

Upgrading Italy's industrial capacity: Industry 4.0 across regions and sectors

Valeria Cirillo; Lucrezia Fantia; Andrea Mina; Andrea Riccia

Clustering Internet of Things competences across European regions

Margherita Russo; Annalisa Caloffi; Ana Colovic; Pasquale Pavone; Saverio Romeo; Federica Rossi

hair.

Annalisa Caloffi

Session S3.

Networks, innovations and territory

Knowledge Specialization and Novel Innovations: The Role of Regional Brokerage and Collaboration Intensity

Keungoui Kima; Dieter F. Kogler, Massimiliano Coda Zabetta

Global Cities in International Networks of Innovators

Samuel Edet; Pietro Panzarasa; Massimo Riccaboni

Measuring cluster networks and their context: a methodological approach based on social network analysis and in-depth interviews.

Pablo Galaso; Adrián Rodriguez Miranda

Clusters as a platform for business-research/ research-business collaboration in V4 countries

Lukas Danko; Drahomira âvelkova; Marta Mackiewicz; Dominika Kuberska; Zoltan Bendo; Katarina Haviernikova

Numerical flexibility and innovation: an empirical investigation on a panel of italian firms

Marco Augliera

hair.

Pablo Galaso

16:00-16:30

Coffee break at Wonder.me

23
Thursday

16:30 - 18:10

Session S1.

Wine clusters and sustainability

Session S2.

SS Regional Clusters and International Business in a de-globalizing world

Session S3.

Multistakeholders and sustainability

From trade to trademark, evaluating the intangible effects of a cluster organization in the Bordeaux wine region

Stephanie Francis Grimbert; Jon Mikel Zabala-Iturrigagoitia

Sustainability in the Alicante wine tourism cluster: the case of Casa Sicilia

Marco-Lajara Bartolomé; Úbeda-García Mercedes; Zaragoza-Sáez Patrocinio; Poveda-Pareja Esther; Martínez-Falcó Javier

The effect of Protected Designation of Origin (PDO) on business performance: An analysis applied to Spanish wine clusters

Bartolomé Marco-Lajara, Pedro Seva-Larrosa; Javier Martínez-Falcó; Eduardo Sánchez García

The role of innovation in renovation of clusters - the case of the douro wine cluster

Svitlana Sousa Ostapenko; Ana Paula Africano

Is there a technological and sustainable transition in the MSM clusters or just survival fight to escape from closing down in the context of India?

Tuhinsubhra Giri

How good is the cluster for smes considering their export barriers

Ana Paula Africano; Inês Francisco Ribeiro; Natércia Fortuna

How proximity mediates the relationship between subnational industrial distance and the performance of multinationals' subsidiaries?

Jonas Fernando Petry; Mohamed Amal; Dinorá Eliete Floriani

The role of innovation and entrepreneurship ecosystem in the firms' internationalization process

Beatrice Mayer; Dinorá Eliete Floriani

Dinora Eliete Floriani and Mohamed Amal

Location advantages in regional innovation ecosystems: a multionational approach

Jurema Tomelin; Mohamed Amal; Aurora Zen

From non-profit organizations to multistakeholder social enterprises

Ermanno Tortia

Participation, regional sustainability transitions and structural couplin: overcoming challenges pertaining to diversity of actors' worldviews, values. and cultures in multistakeholder initiatives

Vang Jan; David Hansen; Heidi Wiig

Measuring the needs and compliance of production processes of ethnic enterprises in Prato industrial district

Mario Biggeri; Leonardo Borsacchi; Lisa Braito; Andrea Ferannini

2030 agenda: How can countries of contental-scale equalize indicators from the perspective of innovation ecosystems?

Silvia Maria dos Anjos; Silvio Luis de Vasconcellos

The contribution of SMEs clusters towards sustainable development

Aikaterini Soulopoulou

Ermanno Tortia

Chair:

Chair:

Amir Maghssudipour

Session S4.

Book Session

— Chair: Silvia Sedita

Rethinking Clusters:
Place-based Value Creation in
Sustainability Transitions

Silvia Rita Sedita; Silvia Blasi

The circular economy in the Tuscan fashion industry:

A value chain approach

Chair:

Natalia Faroni; Tomasso Ferraresi; Sara Turchetti Music as Intangible Cultural Heritage: Economic, Cultural and Social Identity

de Miguel Molina, B; Santamarina Campos, V; de Miguel Molina, M; Boix Doménech, R. Rethinking Clusters: Critical issues and new trajectories of cluster research

Lazzeretti L.; Capone F.; Caloffi A.; Sedita S.

VENUE: Universities



Università degli Studi di Firenze University of Florence

The University of Florence is an important and influential centre for research and higher training in Italy, with 1,800 lecturers and internal research staff, 1,600 technical and administrative staff, and over 1,600 research assistants and doctoral students.

It offers a wide range of study programmes at various levels and in all areas of knowledge.

Over 130 Degree courses (First and Second Cycle, corresponding to Bachelor's and Master's Degrees) organised in 10 Schools, with a population of about 51,000 enrolled students, one-fourth of which come from outside of Tuscany.

There are over 9,000 degrees awarded each year in Florence. According to the alumni data, the percentage of students who are in the workforce one year after their First Level degree is above national average.

The University of Florence has a natural international vocation and the development of internationalization is one of its strategic priorities.

It is one of the largest and most productive public research systems in Italy. This result is accomplished thanks to the number of permanent and temporary researchers working in a wide range of disciplinary and scientific fields, and the numerous junior scientists in training. It is also due to an intensive participation in research programmes of national and international relevance and to the significant scientific results achieved. External funds support the research and knowledge transfer activities. This combination of factors qualifies the Florentine institution as a modern research university and accounts for its excellent position in national and world rankings.

Researchers at the University of Florence operate within 21 different departments and have at their disposal approximately 40 research structures comprising inter-departmental and inter-university centres as well as specialised research, knowledge transfer and advanced training centres.

In recent years the University of Florence has increasingly consolidated its ventures in the field of knowledge transfer: from the filing of patents to the setting up of joint workshops with businesses, through to participation in spin-off companies.

Knowledge transfer activities are coordinated by CSAVRI (Centro di Servizi di Ateneo per la Valorizzazione della Ricerca e la gestione dell'Incubatore universitario), the centre for the enhancement of research and management of the university's incubator.





HISTORY

Launched by three universities of Florence, Padua and Valencia and by the PhD in Development Economics and Local System (DELOS), the "Rethinking Clusters" project has progressively expanded to include a community of researchers from many institutions, discussing a number of issues related to clusters, industrial districts and geographical agglomerations.

The first edition of the Workshop Rethinking Clusters was held at the University of Florence in Italy in 2018, in honour of Professor Giacomo Becattini a pioneer economist and a leading scholar in the industrial district literature.

The second edition of the Workshop Rethinking Clusters was held at the University of Padua in 2019 in Italy.

The third edition of the Workshop RC was held at the University of Valencia and Polytechnic University of Valencia in 2020 in Spain.

We all are clusters!











1st RC2018: Starting...

Florence, May 3rd-4th, 2018

Involving Universitat de València, University of Florence, University of Padova, Universitat Politècnica de València.

100 participants and 71 papers





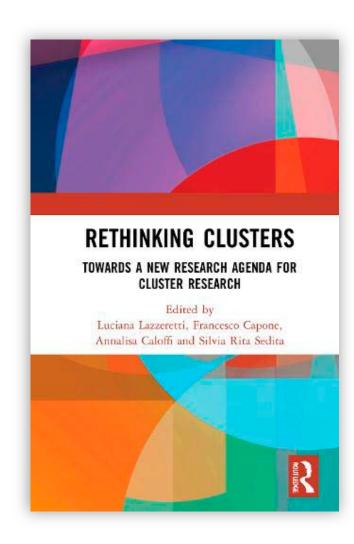












Publications

Special Issue in *European Planning Studies*, Vol. 27(10), 2019: Rethinking clusters. Critical issues and new trajectories of cluster research.

Lazzeretti L. Capone F., Caloffi A., Sedita S., (eds) (2020), Rethinking clusters. Critical issues and new trajectories of cluster research, Routledge.

RETHINKING CLUSTERS

2nd RC2019

Padova, 2019

Involving Universitat de València, University of Florence, University of Padova, Universitat Politècnica de València.

100 participants, 70 papers





2nd International Workshop on Rethinking Clusters 2019

Publications

Sedita S.R. and Blasi S. (2021) (eds.) *Rethinking Clusters: Place-based value creation in sustainability transitions, Cham: Springer.* https://www.springer.com/gp/book/9783030619220

Special Issue of "Competitiveness Review": The Effect of Clusters on Innovation, Entrepreneurship and Global Value Chains. Guest Editors: Roberto Antonietti, Enrico Carlet.

Special Issue of "Competitiveness Review": *Industry 4.0 in firms, clusters and regions: the new digital imperative,* Guest Editors: Jose-Luis Hervas-Oliver, Eleonora di Maria, Marco Bettiol.

Special Issue in *Industry and Innovation*, 28(7), 2021, Rethinking the role of local knowledge networks in territorial innovation models.

Guest Editors: Luciana Lazzeretti, Francesco Capone, Tom Broekel, Robert Hassink.

Clusters



Silvia Rita Sedita
University of Padova, Italy





RETHINKING CLUSTERS

3rd RC2020 (Online Conference)

Valencia, 2020

Involving Universitat de València, University of Florence, University of Padova, Universitat Politècnica de València.

100 participants, 80 papers



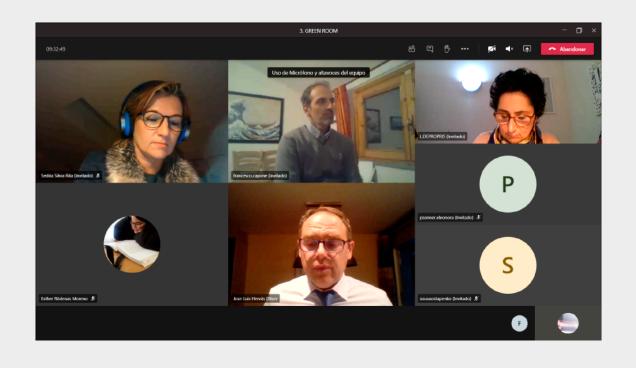


José Luis Hervas-Oliver Professor at Universitat Politècnica de València Management Department

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Rafael Boix
Professor at the Universitat de València
Applied Economics Dept.



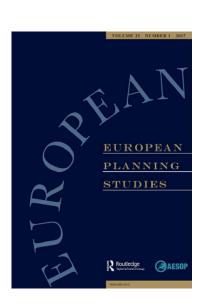


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Publications

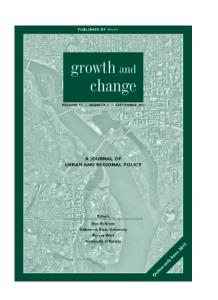
Special Issue 2021 *Competitiveness Review*Special Issue 2022 *Growth and Change*Special Issue 2021-2022 *Regional Studies*

Special Issue 2021-2022 European Planning Studies









HISTORY RETHINKING CULTURE

Firenze, 20th-21st February 2020

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