

Advancing Indicators of Regional Structural Change

Online Workshop 17th March – 19th March, 2021

Wednesday, 17th March, 2021

12:50 pm – 01:00 pm

Digital check-in [Zoom]

01:00 pm – 01:10 pm

Welcome and thematic introduction to the workshop

Uwe Cantner

Friedrich Schiller University Jena

01:10 pm – 02:40 pm

Principles of regional division of labour in manufacturing and services. Perspectives from functions, occupations and industries

Martin Henning¹ & Joakim Boström Elias²

¹University of Gothenburg, ²Swedish Agency for Cultural Policy Analysis

Session chair:
Tom Brökel

The impact of university patenting on the technological specialization of European regions: a technology-level analysis

Antonio de Marco¹ & F. Caviggioli¹ & A. Colombelli^{1,2} & G. Scellato^{1,2}
& E. Ughetto^{1,2}

¹Politecnico di Torino

²Collegio Carlo Alberto

02:40 pm – 03:00 pm

Coffee Break [wonder.me]

03:00 pm – 04:30 pm

Innovative skills and relatedness: performance in heterogeneous and unequal regions

Milene Tessarin & Jefferson Galetti & Paulo César Morceiro
University of Johannesburg

Session chair:
Dirk Fornahl

Industrial pattern and the convergence of robot adoption in European regions

Marco Guerzoni¹ & Nuccio Massimiliano² & Riccardo Capelli³
& Geuna Aldo⁴

¹University of Milan Bicocca, ²University Ca' Foscari Venice,

³Università Politecnica delle Marche, Ancona,

⁴University of Torino

04:30 pm – 04:50 pm

Coffee Break [wonder.me]

***** Wednesday: continued on next page *****

Wednesday, 17th March, 2021

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04:30 pm – 04:50 pm

Coffee Break [wonder.me]

04:50 pm – 06:20 pm

Evolving the Knowledge Space: Towards a Selection Dynamics Model of Patent Classes

Bernardo Buarque¹ & Gergeley Boza & Gerald Silverberg

¹University College Dublin

Session chair:

Holger Graf

Identifying the origins of technological change with a novel way to measure radical innovation

Louis Knüpling

Leibniz University Hannover

06:20 pm – 06:30 pm

Closing of day 1

Holger Graf

Friedrich Schiller University Jena

06:30 pm – 07:30 pm

Digital get-together via wonder.me

Thursday, 18th March, 2021 – morning

08:45 am – 09:00 am ***Digital morning get-together via wonder.me***

09:00 am – 09:05 am **Opening of day 2**

Uwe Cantner
 Friedrich Schiller University Jena

09:05 am – 10:35 am **The importance of scientific domains for technological diversification in European regions**

Ron Boschma^{1,2} & Pierre-Alexandre Balland^{1,3}

¹Utrecht University

²MIT Media Lab

³University of Stavanger Business School

Session chair:
Uwe Cantner

What your region exports matters! New metrics for assessing structural transformation and structural vulnerability

Nicola Daniele Coniglio & Davide Vurchio
 University of Bari Aldo Moro

10:35 am – 11:00 am ***Coffee Break [wonder.me]***

11:00 am – 12:30 pm

The Link Between Economic Complexity and Environmental Pollution. A Case Study Based on the Former Socialist Transition Countries

Lucas Scheu & Florian Bucher
 Andrassy University Budapest

Chair:
Stefano Basilico

**The Geography of Green Inventions in Italy.
 A machine learning approach**

Francesco Capone & Niccolò Innocenti &
Stefania Oliva & Luciana Lazzeretti
 University of Florence

12:30 pm – 01:30 pm ***Lunch Break [wonder.me]***

***** Thursday: continued on next page *****

Thursday, 18th March, 2021 – afternoon

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12:30 pm – 01:30 pm

*****Lunch Break [wonder.me]*****

01:30 pm – 03:00 pm

Predicting Innovative Firms using Web Mining and Deep Learning

Jan Kinne^{1,2,3} & David Lenz^{3,4}

¹ZEW - Leibniz Centre for European Economic Research

²University of Salzburg, ³istari.ai, Mannheim,

⁴Justus-Liebig-University, Gießen

Session chair:
Dirk Fornahl

The strength of weak and strong ties in bridging geographic and cognitive distances

Milad Abbasiharofteh¹ & Jan Kinne^{2,3,4} & Miriam Krüger⁵

¹Utrecht University, ²University of Salzburg, ³istari.ai, Mannheim,

⁴ZEW - Leibniz Centre for European Economic Research, ⁵TU Berlin

03:00 pm – 03:30 pm

*****Coffee Break [wonder.me]*****

03:30 pm – 05:00 pm

The structural relevance of Key Enabling Technologies (KETs) in the knowledge base of German Labor Market Regions (LMR)

Colin Weßendorf & Alexander Kopka
 University of Bremen

Session chair:
Louis Knüpling

The influence of applicants on the technological knowledge space: an application on German regions

Stefano Basilico
 Friedrich Schiller University Jena

05:00 pm – 05:15 pm

Regional knowledge space analysis: presentation of an online tool

Stefano Basilico
 Friedrich Schiller University Jena

05:15 pm – 05:20 pm

Closing of day 2

Louis Knüpling
 Leibniz University Hannover

05:20 pm – 06:15 pm

*****Digital get-together via wonder.me*****

Friday, 19th March, 2021

08:45 am – 09:00 am	***Digital morning get-together via wonder.me***
09:00 am – 09:05 am	Opening of day 3 <u>Colin Weßendorf</u> University of Bremen
09:05 am – 10:35 am	Explore or exploit? Crisis-induced innovation behavior of SMEs and large firms <u>Jessica Birkholz & Jutta Günther & Jarina Kühn & Mariia Shkolnykova</u> University of Bremen
Session chair: <u>Colin Weßendorf</u>	How to adequately measure Innovation Activities of Small and Medium-sized Enterprises? New Indicators addressing the 'Doing-Using-Interacting' Mode of Innovation <u>Rolf Sternberg</u> Leibniz University Hannover
10:35 am – 11:00 am	***Coffee Break [wonder.me]***
11:00 am – 12:30 pm	Using Input-Output Tables to Uncover Innovation Clusters in the German Regional Economy <u>Lasare Samartzidis</u> Leibniz Institute of Ecological Urban & Regional Development, Fraunhofer Center for International Management and Knowledge Economy IMW
Session chair: <u>Tom Brökel</u>	Innovation Networks and Knowledge Diffusion in the Rhenish Lignite Area—an Agent-Based Modelling Approach <u>Christian Stehr & Miriam Athmer</u> Ruhr-University Bochum
12:30 pm – 12.45 pm	Qualitative Analysis of Innovation Networks as Drivers for Structural Change in the Rhenish Lignite Area <u>Miriam Athmer & Christian Stehr</u> Ruhr-University Bochum
12:45 pm	Closing of the workshop, final words <u>Uwe Cantner</u> Friedrich Schiller University Jena
12:45 pm – 01:30 pm	***End of the workshop***
12:45 pm – 01:30 pm	***Possibility of final get-together via wonder.me***

General information

**Further details on the workshop:
All participants have received a long version of this document via email.**

Organizers and contact information

Uwe Cantner (Friedrich Schiller University Jena)

Holger Graf (Friedrich Schiller University Jena)

Stefano Basilico (Friedrich Schiller University Jena)

Dirk Fornahl (Friedrich Schiller University Jena)

Tom Brökel (University of Stavanger Business School)

Louis Knüpling (Leibniz University Hannover)

Colin Weßendorf (University of Bremen)

Please do not hesitate to contact us in case of any questions: tecspace@uni-bremen.de

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Technological Spaces – Evolution, Potentials and Policy Implications, 16IFI016/7/8.*