

8th ZEW/MaCCI Conference on the Economics of Innovation and Patenting

Mannheim, 16-17 May 2019

Conference venue: ZEW, L 7, 1, 68161 Mannheim

PROGRAMME

Thursday, May 16, 2019

09:00	Arrival and Registration
09:30	Room Brussels Welcome Address <i>Georg Licht, ZEW</i>
09:45 – 10:45	Room Brussels Keynote Measuring Artificial Intelligence (TBC) <i>DIETMAR HARHOFF, Max Planck Institute for Innovation and Competition, Munich</i> Chair: Georg Licht, ZEW
10:45 – 11:00	Coffee Break
11:00 – 12:30	Parallel Sessions I (see below for details)
12:30 – 13:30	Lunch
13:30 – 15:00	Parallel Sessions II (see below for details)
15:00 – 15:30	Coffee Break
15:30 – 16:45	Room Brussels Invited Session: Innovation and Public Procurement Public Procurement of Innovation: Rationale, Design and Impact <i>ELISABETA IOSSA, University of Rome Tor Vergata and GREEN-Bocconi</i> Procuring Innovation: A European Legislative Reform <i>DIRK CZARNITZKI, KU Leuven and ZEW</i> Chair: Bettina Peters, ZEW
16:45 – 17:00	Coffee Break
17:00 – 18:30	Parallel Sessions III (see below for details)
19:30	Conference Dinner

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Friday, May 17, 2019

09:00 – 11:00	Parallel Sessions IV (see below for details)
11:00 – 11:20	Coffee Break
11:20 – 12:30	<p>Room Brussels</p> <p>Invited Session: Artificial Intelligence and Big Data in Innovation Research</p> <p>Building an Amazon.com for Data <i>JULIA LANE, New York University</i></p> <p>TBA <i>JUAN MATEOS-GARCIA, NESTA, London</i></p> <p>Chair: Sandra Gottschalk, ZEW</p>
12:30 – 13:30	Lunch
13:30 – 15:00	Parallel Sessions V (see below for details)
15:00 – 15:20	Coffee Break
15:20 – 16:20	<p>Room Brussels</p> <p>Keynote FRAND and Patent Damages <i>TIM SIMCOE, Boston University</i> Chair: Bernhard Ganglmair, ZEW</p>
16:20	Concluding Remarks <i>Bettina Peters, ZEW</i>
16:30	Farewell Drinks and Pretzels
18:00	Optional: Trip to Heidelberg

11:00 – 12:30 Parallel Session I

Room Brussels I.A: EU Innovation Policy Chair: Rainer Widmann (MPI for Innovation and Competition)	Room 1 I.B: IPRs Chair: Christian Helmers (Santa Clara University)	Room 2 I.C: Science 1 Chair: Fabian Gaessler (MPI for Innovation and Competition)	Heinz-Koenig-Hall (HHK) I.D: Inventors, Firm Size & Innovation Chair: Annette Becker (TU Munich)
Innovation Performance and Signal Effect: Quasi-Experimental Evidence from European Program <i>Nadine Levratto (EconomiX-CNRS) and Aurelien Quignon (EconomiX-CNRS)</i> Discussant: Ilia Samarin (Ghent University)	Visibility of Technology and Cumulative Innovation: Evidence from Trade Secrets Laws <i>Bernhard Gangelmair (ZEW, MaCCI & University of Mannheim), Imke Reimers (Northeastern University)</i> Discussant: Paul Hünermund (Maastricht University)	Publish or Perish: Selective Attrition as an Unifying Explanation for Patterns in Innovation Over the Career <i>Huifeng Yu (University at Albany), Gerald Marschke (University at Albany), Matthew Ross (New York University), Joseph Staudt (U.S. Census Bureau), Bruce Weinberg (Ohio State University & NBER)</i> Discussant: Stefano Baruffaldi (University of Bath)	Incubators, Innovation and Productivity <i>Olof Ejerme (Lund University & CIRCLE)</i> Discussant: Richard Bräuer (IWH Halle)
Innovation, Subsidies and Heterogeneity in Firm Performance: Evidence from Horizon 2020 <i>Klaas Mulier (Ghent University), Ilia Samarin (Ghent University)</i> Discussant: Øivind A. Nilsen (Norwegian School of Economics)	Post-Grant Review, Invalidation, and Subsequent Patenting <i>Markus Nagler (LMU Munich), Stefan Sorg (MPI for Innovation and Competition)</i> Discussant: Alan Marco (Georgia Tech)	Truly Legendary Freedom: Funding, Incentives, and the Productivity of Scientists <i>Matthias Wilhelm (LMU Munich)</i> Discussant: Felix Poege (MPI for Innovation and Competition)	The Importance of Tacit Knowledge: Dynamic Inventor Activity in the Commercialization Phase <i>Per Maurseth (Norwegian School of Management), Roger Svensson (IFN Stockholm)</i> Discussant: Pere Arqué-Castells (Northwestern University)
The Geographic Proximity to European Commission and the Likelihood to be Granted with a Subsidy from EU <i>Cem Ermanan (KU Leuven) and Dirk Czarnitzki (KU Leuven & ZEW), Peter Teirlinck (KU Leuven)</i> Discussant: Rainer Widmann (MPI for Innovation and Competition)	Submarine Trademarks <i>Carsten Fink (WIPO), Andrea Fosfuri (Bocconi University), Christian Helmers (Santa Clara University), Amanda F. Myers (USPTO)</i> Discussant: Imke Reimers (Northeastern University)	Science Quality and the Value of Inventions <i>Fabian Gaessler (MPI for Innovation and Competition), Dietmar Harhoff (MPI for Innovation and Competition), Stefano Baruffaldi (MPI for Innovation and Competition), Felix Poege (MPI for Innovation and Competition)</i> Discussant: Elodie Carpentier (GREThA, CNRS & University of Bordeaux)	Labor Division in R&D? Firm Size and Specialization in Corporate Research <i>Annette Becker (TU Munich), Hanna Hottenrott (TU Munich)</i> Discussant: Jeroen Van den Bosch (KU Leuven)

13:30 – 15:00 Parallel Session II

<p>Room Brussels II.A: Public Research Institutes Chair: Maikel Pellens (Ghent University & ZEW)</p>	<p>Room 1 II.B: Patent System Chair: Alexander Donges (University of Mannheim)</p>	<p>Room 2 II.C: International Markets & Innovation Chair: Hanna Hottenrott (TU Munich)</p>	<p>Heinz-Koenig-Hall (HHK) II.D: Web Mining, Deep Learning & Innovation Chair: Jan Kinne (ZEW & University of Salzburg)</p>
<p>Do Companies Benefit from Public Research Organizations? The Impact of the Fraunhofer Society in Germany <i>Diego Comin (Dartmouth College), Georg Licht (ZEW), <u>Maikel Pellens</u> (Ghent University & ZEW), Torben Schubert (Lund University)</i> Discussant: Matthias Wilhelm (LMU Munich)</p>	<p>Strategic Citation: A Reassessment <i>Jeffrey Kuhn (University of North Carolina), Kenneth Younge (EPFL), <u>Alan Marco</u> (Georgia Tech)</i> Discussant: Alexander Donges (University of Mannheim)</p>	<p>Spillovers from International Knowledge Activities <i>Spyros Arvanitis (KOF ETH Zurich), <u>Florian Seliger</u> (KOF ETH Zurich), Martin Wörter (KOF ETH Zurich)</i> Discussant: Bastian Krieger (ZEW)</p>	<p>Predicting Innovative Firms using Web Mining and Deep Learning <i><u>Jan Kinne</u> (ZEW & University of Salzburg), David Lenz (Justus-Liebig-University Gießen)</i> Discussant: Hector de Wazières (Télécom ParisTech & Dauphine University)</p>
<p>The Innovation Effect of the Introduction of Universities of Applied Sciences: Interdependencies Between Different Types of Research Institutions <i><u>Patrick Lehnert</u> (University of Zurich), Curdin Pfister (University of Zurich), Dietmar Harhoff (MPI for Innovation and Competition), <u>Uschi Backes-Gellner</u> (University of Zurich)</i> Discussant: Elizabeth Webster (Swinburne University of Technology)</p>	<p>Universal Intellectual Property Rights: Too Much of a Good Thing? <i>Emmanuelle Auriol (Toulouse School of Economics), Sara Biancini (Université de Cergy-Pontoise), Rodrigo Paillacar (Université de Cergy-Pontoise)</i> Discussant: Emanuele Tarantino (University of Mannheim)</p>	<p>Competition from China in the Product and Factor Markets and Innovation in Germany <i>Philipp Böing (Peking University & ZEW), Loren Brandt (University of Toronto), <u>Pierre Mohnen</u> (Maastricht University), Elisabeth Müller (German Graduate School of Management and Law)</i> Discussant: Hanna Hottenrott (TU Munich)</p>	<p>Firm Website Characteristics and Firm Innovativeness - Which Website Characteristics can Identify whether a Firm is Innovative? <u>Janna Axenbeck</u> (ZEW) Discussant: Lorenz Brachtendorf (MPI for Innovation and Competition)</p>
<p>Knowledge Lost in Capital <i><u>Stefano Baruffaldi</u> (University of Bath), Fabian Gaessler (MPI for Innovation and Competition)</i> Discussant: Maikel Pellens (Ghent University & ZEW)</p>	<p>The Consequences of Radical Patent-Regime Change <u>Alexander Donges</u> (University of Mannheim), <u>Felix Selgert</u> (University of Bonn) Discussant: Markus Nagler (LMU Munich)</p>	<p>Defining and Measuring the Innovativeness of Firms <u>Giuliana Battisti</u> (University of Warwick), <u>Paul Stoneman</u> (University of Warwick) Discussant: Pierre Mohnen (Maastricht University)</p>	<p>Deep Learning, Deep Change? Mapping the Development of the Artificial Intelligence General Purpose Technology <i>Joel Klinger (Nesta), <u>Juan Mateos-Garcia</u> (Nesta), Konstantinos Stathoulopoulos (Nesta)</i> Discussant: Jan Kinne (ZEW & University of Salzburg)</p>

17:00 – 18:30 Parallel Session III

Room Brussels III.A: R&D Policy 1 Chair: Paul Hünermund (Maastricht University)	Room 1 III.B: Standards Chair: Gaétan de Rassenfosse (EPFL)	Room 2 III.C: Technology Transfer Chair: Patrick Lehnert (University of Zurich)	Heinz-Koenig-Hall (HHK) III.D: Start-ups & Innovation Chair: Lorna Syme (Frankfurt School of Finance and Management)
The Effect of Government Research Grants on Firm Innovation: Theory and Evidence from Austria <i>Rainer Widmann (MPI for Innovation and Competition)</i> Discussant: Roger Svensson (IFN Stockholm)	Approximating the Standard Essentiality of Patents – A Semantics-Based Analysis <i>Lorenz Brachtendorf (MPI for Innovation and Competition), Fabian Gaessler (MPI for Innovation and Competition), Dietmar Harhoff (MPI for Innovation and Competition)</i> Discussant: Maddalena Agnoli (MINES ParisTech)	Public University Research Funding and local University-Firm Cooperation: An Analysis of the German Excellence Initiative <i>Bastian Krieger (ZEW)</i> Discussant: Fabian Gaessler (MPI for Innovation and Competition)	Using AI to Analyze and Predict the Success of Startups When Raising Funds Based on the Characteristics of Their Previous Investors <i>Hector de Wazières (Télécom ParisTech & Dauphine University), Jean-Michel Dalle (Sorbonne Université), Clément Gastaud (Sorbonne Université)</i> Discussant: Marius Berger (ZEW)
Effectiveness and Efficacy of R&D Subsidies: Estimating Treatment Effects with One-sided Noncompliance <i>Philipp Boeing (Peking University & ZEW), Bettina Peters (ZEW, MaCCI & University of Luxembourg)</i> Discussant: Jordi Jaumandreu (Boston University & CEPR)	The Effect of Standardization on Innovation: A Machine Learning Approach <i>Maddalena Agnoli (MINES ParisTech), Petyo Bonev (Swiss Institute for Empirical Economic Research)</i> Discussant: Justus Baron (Northwestern University)	Do University-Industry Collaborative Research Grants Have an Effect on the Industry Partners? <i>Paul Jensen (University of Melbourne), Alfons Palangkaraya (Swinburne University of Technology), Russell Thomson (Swinburne University of Technology), Elizabeth Webster (Swinburne University of Technology)</i> Discussant: Nicolas Carayol (GREThA, CNRS & University of Bordeaux)	Can Owner-Inventors Help Capture Digital Opportunities in Young Firms? <i>Lorna Syme (Frankfurt School of Finance and Management), Elisabeth Müller (German Graduate School of Management and Law)</i> Discussant: Hans Lööf (KTH Stockholm)
The Impact of Internationally Co-Funded Public Technology Transfer Programs on Academic Productivity, Collaboration, and Commercialization <i>Paul Hünermund (Maastricht University), Cindy Lopes Bento (Maastricht University), Maikel Pellens (Ghent University & ZEW)</i> Discussant: Aurelien Quignon (EconomiX-CNRS)	Joining Standards Organizations: The Role of R&D Expenditures, Patents, and Product-Market Position <i>Justus Baron (Northwestern University), Cher Li (University of Nottingham), Shukhrat Nasirov (De Montfort University)</i> Discussant: Gaétan de Rassenfosse (EPFL)	Public Policy, Learning and the Evolution of Technology Transfer <i>Nicolas Carayol (GREThA, CNRS & University of Bordeaux), Elodie Carpentier (GREThA, CNRS & University of Bordeaux)</i> Discussant: Patrick Lehnert (University of Zurich)	Outside Board Directors and Start-Up Firms' Innovation <i>Christopher Baum (Boston College), Hans Lööf (KTH Stockholm), Andreas Stephan (Jönköping International Business School), Ingrid Viklund-Ros (KTH Stockholm)</i> Discussant: Lorna Syme (Frankfurt School of Finance and Management)

09:00 – 11:00 Parallel Session IV

Room Brussels IV.A: R&D Policy 2 Chair: Christian Rammer (ZEW)	Room 1 IV.B: Technology Markets Chair: Pere Arqué-Castells (Northwestern University)	Room 2 IV.C: Research Cooperation & Networks Chair: Florian Seliger (KOF ETH Zurich)	Heinz-Koenig-Hall (HHK) IV.D: Labor Market & Innovation Chair: Bettina Peters (ZEW)
The Sensitivity of R&D to Financing Constraints of Firms as Well as of Their Banks Before, During and After the Financial Crisis <i>Marek Giebel (TU Dortmund), Kornelius Kraft (TU Dortmund)</i> Discussant: Giuliana Battisti (University of Warwick)	Patent Transfers, PAEs and Seller's Innovation Activities. Evidence from the U.S. <i>Gianluca Orsatti (University of Bordeaux), Valerio Sterzi (University of Bordeaux)</i> Discussant: Laurie Ciaramella (MPI for Innovation and Competition)	Can You Know Too Much to Learn? The Relationship Btw. Internal Research Capabilities and External Knowledge for Innovation <i>Cindy Lopes-Bento (Maastricht University), Markus Simeth (Copenhagen Business School)</i> Discussant: Bart Leten (KU Leuven)	Digitization and the Demand for Physical Works: Evidence from the Google Books Project <i>Abhishek Nagaraj (UC Berkeley), Imke Reimers (Northeastern University)</i> Discussant: Bruce Weinberg (Ohio State University & NBER)
Public R&D Support and Firms' Performance <i>Øivind A. Nilsen (Norwegian School of Economics), Arvid Raknerud (Statistics Norway), Diana Cristina Iancu (Statistics Norway)</i> Discussant: Philipp Boeing (Peking University & ZEW)	On and Off the Shelf: The Licensing and Selling of Inventions by US Universities <i>Federico Caviggioli (Politecnico di Torino), Antonio De Marco (Politecnico di Torino), Fabio Montobbio (Università Cattolica del Sacro Cuore)</i> Discussant: Dirk Czarnitzki (KU Leuven & ZEW)	Coopetition, Formal and Informal Appropriation Mechanisms and the Role of Environmental Dynamism and Competition Intensity <i>Nina Karthaus (Maastricht University), Boris Lokshin (Maastricht University), Wilko Letterie (Maastricht University)</i> Discussant: Relinde Colen (Hasselt University)	Labor Supply and Automation Innovation <i>Alexander Danzer (KU Eichstätt-Ingolstadt), Carsten Feuerbaum (KU Eichstätt-Ingolstadt), Fabian Gaessler (MPI for Innovation and Competition)</i> Discussant: Bettina Peters (ZEW, MaCCI & University of Luxembourg)
Tax Credits and Small Firm R&D Spending <i>Ajay Agrawal (University of Toronto), Carlos Rosell (Canadian Department of Finance), Timothy Simcoe (Boston University & NBER)</i> Discussant: Benjamin Balsmeier (University of Luxembourg)	Distance and the Timing of Licensing <i>Laurie Ciaramella (MPI for Innovation and Competition), Gaétan de Rassenfosse (Swiss Federal Institute of Technology Lausanne)</i> Discussant: Fabio Montobbio (Università Cattolica del Sacro Cuore)	Classifying European Research Networks <i>Patrick Wolf (ZSW Center for Solar Energy and Hydrogen Research Stuttgart), Tobias Buchmann (ZSW Center for Solar Energy and Hydrogen Research Stuttgart)</i> Discussant: Florian Seliger (KOF ETH Zurich)	Labour Market Reform and Innovation: Evidence from Spain <i>María García-Vega (University of Nottingham), Richard Kneller (University of Nottingham), Joel Stiebale (DICE & Heinrich Heine University Düsseldorf)</i> Discussant: Carsten Feuerbaum (KU Eichstätt-Ingolstadt)

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R&D Tax Credits: Mechanisms of Private and Public Value

Benjamin Balsmeier (University of Luxembourg), Maria Kurakina (UC Berkeley), Lee Fleming (UC Berkeley), Joel Stiebale (DICE & Heinrich Heine University Düsseldorf)

Discussant: Christian Rammer (ZEW)

Measuring the Private and Social Returns to R&D: Unintended Spillovers Versus Technology Markets

Pere Arqué-Castells (Northwestern University), Daniel Spulber (Northwestern University)

Discussant: Christian Helmers (Santa Clara University)

13:30 – 15:00 Parallel Session V

Room Brussels V.A: Public Policies Chair: Cindy Lopes-Bento (Maastricht University)	Room 1 V.B: Innovation, Competition & Productivity Chair: Mark Roberts (Pennsylvania State University & NBER)	Room 2 V.C: Knowledge Diffusion Chair: Florence Blandinieres (ZEW)	Heinz-Koenig-Hall (HHK) V.D: Teams/Employees & Innovation Chair: Elisabeth Müller (German Graduate School of Management and Law)
Buyers' Role in Government R&D Procurement <i>Francesco Decarolis (Bocconi University), Gaéтан de Rassenfosse (EPFL), <u>Leonardo M. Giuffrida</u> (ZEW), Elisabetta Iossa (University of Rome Tor Vergata), Vincenzo Mollisi (University of Rome Tor Vergata), Emilio Raiteri (EPFL), Giancarlo Spagnolo (SITE-Stockholm School of Economics)</i> Discussant: Gianluca Orsatti (University of Bordeaux)	The Impact of Innovation on Productivity: Profitability and Technical Efficiency <i>Jeroen Van den Bosch (KU Leuven), Bruno Cassiman (KU Leuven), Joep Konings (KU Leuven), Stijn Vanormelingen (KU Leuven)</i> Discussant: Markus Trunschke (ZEW)	A Firm Scientific Community <i>Stefano Baruffaldi (University of Bath), <u>Felix Pöge</u> (MPI for Innovation and Competition)</i> Discussant: Stijn Kelchtermans (KU Leuven)	Is Assortative Matching to Blame for Slowing Technology Diffusion? <i>Eric Bartelsman (VU Amsterdam), <u>Richard Bräuer</u> (IWH Halle)</i> Discussant: Olof Ejermeo (Lund University & CIRCLE)
R&D and Market Size: Who Benefits from Orphan Drug Regulation? <i>Simona Gamba (University of Verona), <u>Laura Magazzini</u> (University of Verona), Paolo Pertile (University of Verona)</i> Discussant: Van Anh Vuong (Maastricht University)	Prices Under Innovation: Evidence from Manufacturing Firms <i><u>Jordi Jaumandreu</u> (Boston University & CEPR), Shuheng Lin (Xiamen University)</i> Discussant: Richard Kneller (University of Nottingham)	Knowledge Diffusion Through the Patent System: Evidence from the Invention Secrecy Act <i><u>Gaéтан de Rassenfosse</u> (EPFL), Gabriele Pellegrino (EPFL), Emilio Raiteri (Eindhoven University of Technology)</i> Discussant: Bernhard Gangelmair (ZEW, MaCCI & University of Mannheim)	The Effect of High-Skilled Migrant Hires and Integration Capacity on Firm-Level Innovation Performance: Is There a Premium? <i>Keld Laursen (Copenhagen Business School), <u>Bart Leten</u> (KU Leuven), Han Nguyen (Hasselt University), Mark Vancauterem (Hasselt University)</i> Discussant: Annette Becker (TU Munich)
Capabilities, Incentives, Institutions and National Innovation Performance: A Cross-Country Study <i>Xiaolan Fu (University of Oxford), <u>Jing Zhang</u> (University of Nottingham)</i> Discussant: Cindy Lopes-Bento (Maastricht University)	International Trade and Innovation Dynamics with Endogenous Markups <i>Laurent Cavenaile (University of Toronto), Pau Roldan-Blanco (Banco de Espana), <u>Tom Schmitz</u> (Bocconi University)</i> Discussant: Mark Roberts (Pennsylvania State University & NBER)	Many Are Called, Few Are Chosen: The Role of Science in Drug Development Decisions <i><u>Relinde Colen</u> (Hasselt University), René Belderbos (KU Leuven), Stijn Kelchtermans (KU Leuven), Bart Leten (KU Leuven)</i> Discussant: Florence Blandinieres (ZEW)	Teams, Interdisciplinarity and the Rising Complexity of Research <i>Nicolas Carayol (Université de Bordeaux), François Maublanc (Université de Bordeaux)</i> Discussant: Elisabeth Müller (German Graduate School of Management and Law)