PROGRAMME

Final version, as of 24 September 2019

European Commission

IN COOPERATION WITH

OECD

BETTER POLICIES FOR BETTER LIVES

7th European Conference on Corporate R&D and Innovation

CONCORDi 2019

INDUSTRIAL INNOVATION FOR TRANSFORMATION

Organised by the **European Commission's Joint Research Centre's Directorate for Growth and Innovation** in collaboration with the **OECD's Directorate for Science, Technology and Innovation**

25-27 September 2019 – Seville (Spain)

Conference venue:

Fundación | Cajasol

Plaza San Francisco, 1 - 41004 Seville (Spain)

OUTLINE OF THE PROGRAMME

Wednesday 25 September 2019

- ***Opening plenary 14:00-15:15***

  Chair: ***Bronwyn H. Hall*** *(University of California at Berkeley and NBER, USA; MPI-Munich, DE; IFS-London, UK)*

  Welcome: ***Rogelio Velasco Pérez*** *(Andalusian Regional Minister for Economics, Knowledge, Enterprise and University, ES)*

  Opening address: ***Vladimír Šucha*** *(Director-General, Joint Research Centre - JRC, European Commission, BE)*

  - Keynote: ***Dirk Pilat*** *(Deputy-Director, Directorate for Science, Technology and Innovation, Organisation for Economic Co-Operation and Development – OECD, FR) "Transforming industry: the role of Artificial Intelligence"*

- ***Parallel sessions I (15:30-16:45)***
  Coffee break 30'
- ***Parallel sessions II (17:15-18:45)***

Thursday, 26 September 2019

- ***Opening plenary (9:00-10:00)***

  Chair: ***María Ángeles Martín Prats*** *(Founder and President Skylife Engineering, and University of Seville, ES)*

  - Keynote: ***Koen Frenken*** *(Utrecht University, NL) "Related industrial diversification as an economic development strategy: theory, empirics and policy considerations"*

  - Keynote: ***Anita Schjøll Brede*** *(Co-founder and" CEO of IRIS.AI, NO) "An entrepreneurial experience questing to change the world with artificial intelligence, science and weirdness"*

- ***Parallel sessions III (10:00-11:15)***
  Coffee break 30'
- ***Parallel sessions IV (11:45-13:15)***

  Lunch break (13:15-14:15)

- ***Policy-makers plenary (14:15-16:15) – The policy perspective***

  Chair: ***Luis Delgado*** *(Acting Director, Directorate for Growth and Innovation, JRC, European Commission)*

  - Keynote: ***Hiroshi Kuniyoshi*** *(Deputy Director-General, United Nations Industrial Development Organization - UNIDO) "Industrial innovation and the achievement of the Sustainable Development Goals"*

- Round table by European Commission policy-makers:

Erik Canton *(Deputy Head of Unit, Directorate-General for Economic and Financial Affairs – DG ECFIN)*
Yves Paindevenie *(Head of Sector, Directorate-General for Communications Networks, Content and Technology – DG CNECT)*
Marek Przeor *(Team Leader, Directorate-General for Regional and Urban Policy – DG REGIO)*
Julien Ravet *(Team Leader, Directorate-General for Research and Innovation – DG RTD)*

- Wrap-up of policy messages by ***Sara Amoroso, Mafini Dosso and Alessandro Rainoldi*** *(European Commission, JRC)*

Coffee break 30'

- ***Parallel sessions V (16:45-18:00)***
- ***Gala cocktail-dinner with the delivery of the Special award and the Best paper award (20:00-22:00)***

Friday, 27 September 2019

- ***Opening plenary (9:00-9:45)***

  Chair: ***Irmgard Nübler*** *(International Labour Organisation, CH)*
  Opening address: ***Gabriel Pérez Alcalá*** *(President of Loyola Andalusia University, ES)*
  Keynote: ***Marco Vivarelli*** *(Università Cattolica di Milano, IT) "Impact of innovation and industrial transformation on employment and skills".*

- ***Parallel sessions VI (9:50-11:00)***
  Short coffee break 15'
- ***Parallel sessions VII (11:15-12:20)***

- ***Closing plenary (12:30-13:45)*** **- Wesbstreamed *plenary session***

  Chair: ***Luis Delgado*** *(Acting Director, Directorate for Growth and Innovation, JRC, European Commission)*
  Summary of scientific output of the Conference, streamlining their links to EU policy:

  Mariagrazia Squicciarini *(OECD, FR; Members of Scientific Committee, CONCORDi 2019)*

  Chiara Criscuolo *(OECD, FR; Members of Scientific Committee, CONCORDi 2019)*

  Reinhilde Veugelers *(Katholieke Universiteit Leuven, BE. Member of Scientific Committee, CONCORDi 2019)*

  Closing statements by: ***Luis Delgado*** *(Acting Director, Directorate for Growth and Innovation, JRC, European Commission) and* ***Antonio Pulido Gutiérrez*** *(Presidente de la Fundación Cajasol, ES).*

13:45. End of the Conference

FULL PROGRAMME

WEDNESDAY, 25 SEPTEMBER 2019

12h45 – 13h45 Registration

Plenary session 1 – OPENING (theatre; ground floor)

14h00 –15h15

Chair: ***Bronwyn H. Hall*** *(University of California at Berkeley and NBER, USA; MPI-Munich, DE; IFS-London, UK)*

Welcome: ***Rogelio Velasco Pérez*** *(Andalusian Regional Minister for Economics, Knowledge, Enterprise and University, ES)*

Opening address: ***Vladimír Šucha*** *(Director-General, Joint Research Centre - JRC, European Commission)*

- *Keynote:* ***Dirk Pilat*** *(Deputy-Director, Directorate for Science, Technology and Innovation, Organisation for Economic Co-operation and Development - OECD) "Transforming Industry: The Role of Artificial Intelligence".*

15h00 – 15h15 Open discussion

Parallel sessions (I and II) (floor 3)

Legend: names of people in **bold** are speakers

I **15h30 – 16h45**	**I A** (room 1)	**I B** (room 2)	**I C** (room 3)
	Productivity and technology diffusion Chair: Mercedes Teruel *(Universitat Rovira i Virgili, ES)*	**Digitalization and employment** Chair: Sven Schimpf *(Fraunhofer Group for Innovation Research, DE)*	**R&D gaps and dynamics** Chair: Carolina Castaldi *(Eindhoven University of Technology, DE)*
	Determinants of Productivity Gap in the European Union: A Multilevel Perspective ***R.L. Bruno****, E. Douarin, J. Korosteleva and S. Radosevic (University College London)*	Digital technologies and their impact on EU employment and production ***C. Midoes*** *(Bruegel, BE) and G. Petropoulos (Massachusetts Institute of Technology, USA) and Bruegel, BE)*	The EU vs US corporate R&D intensity gap: investigating key sectors and firms *P. Moncada-Paternò-Castello and* ***N. Grassano*** *(European Commission- JRC, ES)*

	Types of innovation and firm's economic performance *M. Cincera and **E. Ince** (Université Libre de Bruxelles, BE)*	Digitalization and employment: Evidence from Indian service sector firms ***N. Mathew** and B. Verspagen (University of Maastricht, NL)*	Mapping Technological Trends: An analysis from the technological effort in the pharmaceutical industry. ***F. Gisele Basso** and G. Silveira Porto (University of São Paulo, BR)*
	Regulations and technology diffusion in Europe: the role of industry dynamics ***S. Amoroso** (European Commission-JRC, ES) and R. Martino (European Commission-DG RTD, BE)*	The digital transformation and labour demand in Italian enterprises ***A. de Panizza** and S. De Santis (Istituto Nazionale di Statistica, IT)*	Dynamics of product and process innovation in low and medium-low technology (LT &MLT) and high and medium-high technology (HT & MHT) firms in Poland ***P. Dzikowski** (University of Zielona Gora, PL)*
16h45-17h15 Coffee break & Poster Session			
II **17h15 – 18h45**	**II A** (room 1)	**II B** (room 2)	**II C** (room 3)
	Digital transformation Chair: Katarzyna Sledziewska *(Warsaw University, PL)*	**Internationalization of R&D** Chair: Antonio Vezzani *(Roma Tre University, IT)*	**Global and local innovation** Chair: Raquel Ortega-Argilés *(University of Birmingham, UK)*
	Robots and their knowledge generation: patenting and firm-level performance *F. Montobbio, **J. Staccioli**, M.E. Virgillito and M. Vivarelli (Università Cattolica del Sacro Cuore)*	Local cooperation for innovation and multinationals in Spanish ICT ***A. García Sánchez** (Universidad de Sevilla, ES) and R. Rama (Consejo Superior de Investigaciones Científicas, ES)*	Place-based Innovation Ecosystems (PIE): Different Routes to Success? A Comparative Analysis of Five Case Studies *R. Compañó (European Commission-JRC, ES), **G. Rissola** (European Commission-JRC, ES), J. Haberleithner (University of Colima, MX)*
	Digital servitization in manufacturing firms ***B. Dachs** (Austrian Institute of Technology, Vienna)*	Links between R&D, innovation and export across European manufacturing firms *A. Segarra-Blasco, **M. Teruel** and S. Cattaruzzo (Universitat Rovira i Virgili, ES)*	Towards a better understanding of firms' R&D and innovation value chains: insights from qualitative and quantitative evidence ***M. Dosso** (European Commission JRC, ES) and P. Ramirez (University of Birmingham, UK)*

	Digital adoption in Europe and the United States ***D. Rückert**, R. Veugelers (KU Leuven, Bruegel, BE and CEPR, US) and C. Weiss (European Investment Bank, LU)*	Innovation and Legal Enforcement for Competition Policy: Theory and international evidence from overseas subsidiaries of the Japanese auto-parts suppliers ***Y. Takeda** (Sophia University, JP) and I. Uchida (Aichi University, JP)*	The Machinery Value Chain: mapping for upgrading ***C. Fróes de Borja Reis** (Universidade Federal do ABC, Brasil)*
	Where are those robots? Towards Europe's Robot Geography: territorial and sectorial concentration versus diffusion of industrial robots ***Z. Cséfalvay** (European Commission-JRC, ES)*	Artificial Intelligence and Robotics Innovation: A sectoral and geographic mapping *V. Van Roy (European Commission - JRC, ES), **D. Vertesy,** and G. Damioli (European Commission - JRC, IT)*	Productivity growth and global value chain participation in the digital age *C. Battiati, **C. Jona-Lasinio**, and S. Sopranzetti (Luiss University, IT)*

18h45 End of the first day (Wednesday, 25 September, 2019)

THURSDAY, 26 SEPTEMBER 2019

Plenary session 2 (room 1; floor 3)

9h00-10h00

Chair: ***María Ángeles Martín Prats** (Founder and President Skylife Engineering, and University of Seville, ES)*

*- Keynote: **Koen Frenken** (Utrecht University, NL) "Related industrial diversification as an economic development strategy: theory, empirics and policy considerations"*

*- Keynote: **Anita Schjøll Brede** (Co-founder and CEO of IRIS.AI, NO) "An entrepreneurial experience questing to change the world with artificial intelligence, science and weirdness"*

9h45 – 10h00 Open discussion

Parallel sessions (III and IV) (floor 3)

Legend: names of people in **bold** are speakers

III	**10h00 – 11h15**	**III A** (room 1)	**III B** (room 2)	**III C** (room 3)
		Industry 4.0 Chair: Kai-Ingo Voigt *(Friedrich-Alexander-Universität Erlangen-Nürnberg, DE)*	**Policy for innovation** Chair: Zoltan Csefalvay *(European Commission - JRC, ES)*	**Effectiveness of R&D tax credits** Chair: Bettina Peters *(Zentrum für Europäische Wirtschaftsforschung, DE)*
		How Artificial Intelligence is Shaping Science ***S. Bianchini,*** *M. Muller and P. Pelletier (University of Strasbourg, FR)*	Can stimulating demand drive costs down? World War II as a natural experiment ***F. Lafond,*** *D. Greenwald and D. Farmer (University of Oxford, UK)*	Impact of R&D tax incentives on greenfield FDI projects in R&D activities *J. Baumgartner and* ***M. Falk*** *(Austrian Institute of Economic Research, AT)*
		The impact of robots on labour productivity: A panel data approach covering nine industries and 12 countries ***A. Jungmittag*** *European Commission-JRC, ES and Frankfurt University of Applied Sciences, DE) and A. Pesole European Commission-JRC, ES)*	Legitimation and effects of (mission-oriented) transformative innovation policies: A spillover perspective ***M.J. Janssen*** *(Utrecht University, NL)*	Are R&D tax incentives literature so effective? A meta-regression analysis ***F. Blandinieres****, D. Steinbrenner, (Centre for European Economic Research, DE) and B. Weiss (Leibniz Institute for the Social Sciences, DE)*
		Competences for the in-house development of digital innovations in German mechanical engineering companies ***S. Kinkel*** *(Karlsruhe University, DE)*	Innovation performance and signal effect: Quasi-experimental evidence from European program *N. Levratto and* ***A. Quignon*** *(Université Paris Nanterre, FR)*	R&D tax incentives: heterogeneous effects and the role of policy mix *S. Appelt, M. Bajgar,* ***C. Criscuolo*** *and F. Galindo-Rueda (OECD, FR)*
11h15-11h45 Coffee break & Poster Session				

IV **11h45 – 13h15**	**IV A** (room 1)	**IV B** (room 2)	**IV C** (room 3)
	Policy challenges Chair: Alessandra Colecchia *(OECD, FR)*	**Intangibles** Chair: Michele Cincera *(Université Libre de Bruxelles, BE)*	**Innovation and employment** Chair: Nathalie Greenan *(Centre d'études de l'emploi et du travail, FR)*
	Innovation for Inclusive Structural Change *T. Ciarli, **M. Savona** and J. Thorpe (University of Sussex, UK)*	Market Power and Innovation in the Intangible Economy ***M. De Ridder** (University of Cambridge UK)*	Digitalization, routineness and employment: An exploration on Italian task-based data *V .Cirillo (INAPP, IT), R. Evangelista (University of Camerino, IT), D. Guarascio (INAPP, IT) and **M. Sostrero** (European Commission, JRC, ES)*
	Back to the future: scoping dynamics in industrial innovation *W. Bauer and **S. Schimpf** (Fraunhofer Group for Innovation Research, DE)*	Concordance and complementarity in IP instruments ***M. Grazzi** (Università Cattolica del Sacro Cuore, IT), C. Piccardo (University of Verona, IT) and C. Vergari (University of Pisa, IT)*	The Effects of Product and Process Innovation across the Value Chain on Different Type of Employment: An Empirical Case of Spanish Manufacturing Firms *A. Barge-Gila, **G. Arenas Díaz**, and J. Heijs (Complutense University, ES)*
	Experimental innovation policy ***A. Bravo-Biosca** (Nesta, UK and Barcelona Graduate School of Economics, ES)*	Complementarities in capital formation and production across EU member states: tangible and intangible assets *P. Goodridge, J. Haskel (Imperial College, UK), A. Thum-Thysen and **P. Voigt** (European Commission, BE)*	Employment effects of innovation and R&D private and public collaboration: the role of knowledge spillovers in Europe *L. Aldieri, B. Bruno, **L. Senatore** and C.P. Vinci (University of Salerno, IT)*
	Industrial Innovation in Transition: international findings and a national innovation system reform in Finland based on these findings ***E. Ormala** (Aalto Univerisity, FL)*	A competence perspective on the relation between innovation and firm growth ***C. Castaldi** (Eindhoven University of Technology, NL) and M. Dosso (European Commission, JRC, ES)*	Firm R&D and Wage Inequality *T. Ciarli, **A. Marzucchi**, M. Savona (University of Sussex, UK) and E. Salgado (Inter-American Development Bank)*
13h15-14h15 Lunch and Poster Session			

Plenary session 3 (theatre; ground floor)

14h15-16h15

Chair: ***Luis Delgado*** *(Acting Director, Directorate for Growth and Innovation, JRC, European Commission)*

- *Keynote:* ***Hiroshi Kuniyoshi*** *(Deputy Director-General, United Nations Industrial Development Organization - UNIDO):*
  "Industrial innovation and the achievement of the Sustainable Development Goals"

- *Round table by European Commission policy-makers:*

  Erik Canton *(Deputy Head of Unit, Directorate-General for Economic and Financial Affairs – DG ECFIN)*

  Yves Paindevenie *(Head of Sector, Directorate-General for Communications Networks, Content and Technology – DG CNECT)*

  Marek Przeor *(Team Leader, Directorate-General for Regional and Urban Policy – DG REGIO)*

  Julien Ravet *(Team Leader, Directorate-General for Research and Innovation – DG RTD)*

Wrap-up of policy messages by ***Sara Amoroso, Mafini Dosso*** *and* ***Alessandro Rainoldi*** *(European Commission, JRC).*

16:15 -16:45 Coffee break and Poster Session

Parallel sessions (V) (floor 3)

Legend: names of people in **bold** are speakers

V	**16h45 – 18h00**	**V A** (room 1)	**V B** (room 2)
		Advanced Manufacturing: local and global aspects Chair: George Chryssolouris *(University of Patras, GR)*	**Sustainability** Chair: Claudia Ghisetti *(Catholic University of Milan, IT)*
		Additive manufacturing and industrial transformation: evidence from the literature ***M. Holmén*** *J. Gullbrand, H. Barth (Halmstad University, SE) and H. Florén (Halmstad University, SE and Research Institutes of Sweden, SE)*	Industrial Innovation Analysis and Evaluation Towards Industrial Symbiosis application in the Circular Economy Transformation *M. Demartini,* ***F. Bertani****, M. Raberto, S.Cincotti, F.Barberis and F. Tonelli (University of Genoa, IT)*
		Regional diversification patterns and key enabling technologies (KETs) in Italian regions ***R. Antonietti*** *(University of Padova, Italy) and S. Montresor (Gran Sasso Science Institute, IT)*	Understanding EU's Regional Potential in Low-Carbon Technologies ***E. Bergamini****, T. Linta, D. Tokuyama and G. Zachmann (Bruegel, BE)*
		Dual use inventions: specialization or hybridization? *F. Caviggioli, A. De Marco, G. Scellato (Politecnico di Torino, IT), P. Gkotsis European Commission-JRC, ES) and* ***A. Vezzani*** *(Roma Tre University, IT).*	Employment effects of sustainable transport – A scenario analysis for Germany using input-output modelling *L. Sievers and* ***A. Grimm*** *(Fraunhofer Institute for Systems and Innovation Research, DE)*

20h00-22h00 Gala Cocktail-Dinner with the delivery of the *Special award* and the *Best paper award* ceremonies

Venue: Casa Palacio de la Condesa de Lebrija. Address: Calle Cuna, nº 8 – 41004 Seville

FRIDAY, 27 SEPTEMBER 2019

Plenary session 4 (room 1; floor 3)

9:00-9:45

Chair: ***Irmgard Nübler*** *(International Labour Organisation, CH)*

*Opening address****: Gabriel Pérez Alcalá*** *(President of Loyola Andalusia University, ES)*

*- Keynote****: Marco Vivarelli*** *(Università Cattolica di Milano, IT) "Impact of innovation and industrial transformation on employment and skills".*

Parallel sessions (VI and VII) (floor 3)

Legend: names of people in **bold** are speakers

VI	**9h50 – 11h00**	**VI A** (room 1)	**VI B** (room 2)	**VI C** (room 3)
		Skills Chair: Cesira Urzí-Brancati *(European Commission-JRC, ES)*	**Firm dynamics and barriers** Chair: Maria Savona *(University of Sussex, UK)*	**Patents and technology transfer** Chair: Petros Gkotsis *(European Commission-JRC, ES)*
		Innovation and inequality. A Schumpeterian look at the skill premium *L . Cattani (University of Modena and Reggio Emilia, IT), **G.Guidetti** (University of Bologna, IT) and R. Leoncini (University of Bologna, IT)*	Intangible investments and productivity performance *M. Cincera (Université Libre de Bruxelles, BE), J. Delanote (European Investment Bank, LU), P. Mohnen (University of Maastricht, NL), **A. Santos** (Université Libre de Bruxelles, iCite, BE) and C. Weiss (European Investment Bank, LU)*	Patent Transfers and Patent Citations *L. Ciaramella, F. Gaessler, D. Harhoff, (Max Planck Institute for Innovation and Competition, DE) and **B.H. Hall** (University of California at Berkeley, USA)*
		Does Targeted R&D Grants towards SMEs Increase Employment and Demand for Skilled Labour? ***S.-O. Daunfeldt*** *(Institute of Retail Economics, SE), D. Halvarsson, P. Gustavsson Tingvall (The Ratio Institute, SE) and A. McKelvie (Syracuse University, US)*	Financial constraints and intangible investments: Deterring or revealed barriers to engage in innovation? ***S. Montresor*** *(Gran Sasso Science Institute, IT) and A. Vezzani (Roma Tre University, IT)*	The prevalence of NIH-funded research in commercial products ***G. De Rassenfosse*** *(École polytechnique fédérale de Lausanne, CH) and E. Raitieri (Technische Universiteit Eindhoven, NL)*
		Innovation intensity and skills in firms across five European countries *M. Falk (Austrian Institute of Economic Research, AT) and **E. Hagsten** (University of Iceland, IS)*	Landmarks as lighthouses: firms' innovation and exit routes during the crisis ***E. Cefis*** *(University of Bergamo and Scuola Superiore Sant'Anna, IT), A. Coad (Pontificia Universidad Católica del Perú, PE) and A. Lucini-Paioni (University of Bath, UK)*	The Micro-Foundations of Catch-up. Evidence from European Patent Data for South Korean and Chinese Firms *B. Ebersberger, M. Feit and **H. Mengis** (University of Hohenheim, DE)*

11h00-11h15 Short coffee break & Poster Session			
VII **11h15 – 12h25**	**VII A** (room 1)	**VII B** (room 2)	**VII C** (room 3)
	R&D subsidies Chair: Hanna Hottenrott *(Technical University of Munich, DE)*	**Green technologies** Chair: Ester Martínez-Ros *(Universidad Carlos III, ES)*	**Social return of technological change** Chair: Mafini Dosso *(European Commission, JRC, ES)*
	R&D Subsidies and Firms' Debt Financing ***A. Bellucci*** *(European Commission JRC, IT), L. Pennacchio (Università di Napoli Parthenope, IT) and A. Zazzaro (Università di Napoli Federico II, IT)*	Predicting innovation dynamics in the technological ecosystem ***A. Pichler****, F. Lafond and J. Doyne Farmer (University of Oxford, UK)*	Innovation, Structural Change, and Inclusion. A Cross Country PVAR Analysis ***A. Saha*** *(Institute of Development Studies, UK) and T. Ciarli (University of Sussex, UK)*
	Funding breakthrough innovation: evidence from a regression discontinuity ***A. Mina****, P. Santoleri, I. Martelli and A. Di Minin (Scuola Superiore Sant'Anna, IT)*	Sustainable energy transition and policy mix design in the European Union: a trade-based supply value chain approach *V. Costantini and* ***E. Paglialunga*** *(Roma Tre University, IT)*	Threats and opportunities in the digital era: automation spikes and employment dynamics *G. Domini (Erasmus University Rotterdam, NL), M. Grazzi (Università Cattolica del Sacro Cuore, IT),* ***D. Moschella*** *(Scuola Superiore Sant'Anna, IT) and T. Treibich (University of Maastricht, NL)*
	Effectiveness and Efficacy of R&D Subsidies: Estimating Treatment Effects with One-sided Noncompliance *P. Böing and* ***B. Peters****, (Leibniz Centre for European Economic Research, DE)*	Design and innovation: Does the "green-matching" actually help? ***C. Ghisetti*** *(Università Cattolica del Sacro Cuore, IT), Sandro Montresor (Gran Sasso Science Institute, IT) and Antonio Vezzani (Roma Tre University, IT)*	Technological innovation and local labour markets: A complex system analysis ***A. Sbardella*** *(Tor Vergata University, IT), L. Napolitano (Consiglio Nazionale delle Ricerche, IT) and E. Pugliese (European Commission, JRC, ES)*

Plenary session 5 (theatre; ground floor)

This plenary session will be entirely *webstreamed* and visible from CONCORDi 2019 website (https://iri.jrc.ec.europa.eu/concord/2019/index.html)

12h30-13h45

Chair: ***Luis Delgado*** *(Acting Director, Directorate for Growth and Innovation, JRC, European Commission)*

Summary of scientific output of the Conference, streamlining their links to EU policy:

> ***Mariagrazia Squicciarini*** *(OECD, FR; Members of Scientific Committee, CONCORDi 2019):*
> *"New technologies, structural change, and industrial transformation"*
>
> ***Chiara Criscuolo*** *(OECD, FR; Members of Scientific Committee, CONCORDi 2019):*
> *"Industrial innovation and socio-economic transformation"*
>
> ***Reinhilde Veugelers*** *(Katholieke Universiteit Leuven, BE; Member of Scientific Committee, CONCORDi 2019):*
> *"Intangibles, diffusion of technology, and policy".*

Closing statements by: ***Luis Delgado*** *(Acting Director, Directorate for Growth and Innovation, JRC, European Commission)*
Antonio Pulido Gutiérrez *(Presidente de la Fundación Cajasol, ES).*

13:45. End of the Conference

Accepted Posters

TITLE	AUTHORS	AFFILIATION
Persistence of innovation and survival during the crisis	**Elena CEFIS**, Alex COAD and Alessandro LUCINI-PAIONI	University of Bergamo (IT) CENTRUM Graduate Business School (PU) University of Bath (UK)
European RDi networks in ICT and their impact on regional competitiveness	**María Rosalía Vicente**, Ana Salomé García Muñiz and Margarita Billon	Applied Economics, University of Oviedo, ES Applied Economics, University of Oviedo, REGIOlab, ES Economic Structure and Development Economics Autonomous University of Madrid, ES
Acknowledgements to private funding: exploring additional traces of industrial R&D activity through scientific publications	**Alfredo Yegros** and Wout Lamers	Centre for Science and Technology Studies, NL
A digital extension of logics of appropriability? Evidences from the Swedish video-game industry	**Vicky Long** and Halmstad Högskolan	Ratio - Näringslivets forskningsinstitut, SE
Risks and Returns in Crowdlending	Saman Adhami **Gianfranco Gianfrate** and Sofia Johan	Vienna Graduate School of Finance, AT EDHEC Business School, FR College of Business, Florida Atlantic University, US
What to Prepare for the Safe and Successful Acceptance of Blockchain	**Jyhyun Ahn**	Korea Institute of S&T Evaluation and Planning

ANNEX I: More information about CONCORDi 2019

Format

The Conference will be structured in 5 plenary sessions (with interventions by invited speakers and round-table panellists and parallel sessions for a total of 20 parallel slots; in 14 of them will be presented three papers and in 4 of them four papers to be presented in each (66 papers in total), and a poster session with scientific works displayed. All presented papers and displayed posters have been selected following the call for papers. There are no paper and power point templates of the Conference; therefore authors can use their own templates.

An active role in Conference is foreseen by keynote speakers, scientific committee members, chairs, speakers, panellists and other attendees of the Conference who are expected to *animate the debate during the entire Conference*.

➔ First day (Wednesday, 25 September 2019): A main plenary session (first day) opened by

Opening Plenary (1): The Conference will be inaugurated with the welcome talk by **Rogelio Velasco Pérez** (the Andalusian Regional Minister for Economics, Knowledge, Enterprise and University, ES) and with the opening speech by **Vladimír Šucha** (Director-General, Joint Research Centre - JRC, European Commission, BE). **Dirk Pilat** (Deputy Director - Directorate for Science, Technology and Innovation of the OECD, FR) will offer the keynote speech and will also launch the joint EC/JRC - OECD/STI report "Transforming industry: the role of Artificial Intelligence". **Bronwyn H. Hall** (University of California at Berkeley and NBER, USA; MPI-Munich, DE; IFS-London, UK) will act as Chair of the plenary opening session. The opening and keynote speakers will have about **20'' of time**. It will follow a short debate and Q&A session of about 15' of time.

Parallel Sessions I and II: There will be the first round of parallel sessions (with articles selected following the call for papers). The presentations of each paper/Presenter (**maximum 15'**) will be followed by discussion (**maximum 10'**). In total there will be **strictly 20'-25' in total for each paper.** The Chairs of the parallel sessions should ensure the timing is respected.

➔ Second day (Thursday, 26 September 2019):

Plenary session (2): Chaired by **María Ángeles Martín Prats** (Founder and President Skylife Engineering, and Professor at the University of Seville, ES), the invited keynote speakers **Koen Frenken** (Utrecht University, NL) and **Anita Schjøll Brede** (Co-founder and CEO of IRIS.AI, NO) will touch upon the central argument of CONCORDi 2019: industrial innovation for transformation. They will provide the attendees with the completeness of an academic as well as an entrepreneurial angle. The titles of their keynotes self-explain this complementary: "Related industrial diversification as an economic development strategy: theory, empirics and policy considerations" and "An entrepreneurial experience questing to change the world with artificial intelligence, science and weirdness". Each of the keynote speakers will have about **20' of time**. It will follow a short debate and Q&A session of about **10' of time**.

Parallel sessions III and IV: There will be the second round of parallel sessions of the Conference dedicated to the presentations of articles selected following the call for papers. The presentations of each paper/Presenter (**maximum 15'**) will be followed by an open discussion with the Conference attendees (**maximum 5'**), and a final reply (**maximum 5'**) by the presenter/author. In total there will be **strictly 20'-25' in total for each paper.** The Chairs of the parallel sessions should ensure the timing is respected.

Plenary session (3): Chaired by **Luis Delgado** (Acting Director, Directorate for Growth and Innovation, JRC, European Commission), this Plenary session will be opened by the keynote of **Hiroshi Kuniyoshi** (Deputy Director-General, United Nations Industrial Development Organization - UNIDO) who will introduce the "Industrial innovation and the achievement of the Sustainable Development Goals". He will have **about 20' of time** for his speech to which will follow a short Q&A session of about 10' of time.

A round table discussion by European Commission policy stakeholders will follow. The four panellists will be expected to briefly (maximum **10' of time** for panellist) relate the agenda of their respective services/institutions and in particularly in relation to the central theme of CONCORDi 2019, and to contribute the policy relevant conclusions. It will follow for **15' of time** in total a short final discussion between panellists and a Q&A session. Finally, **Sara Amoroso**, **Mafini Dosso** and **Alessandro Rainoldi** (European Commission, JRC) will offer in **15' of time** in total a rap-up of policy messages raised during the policy stakeholders round-table.

Parallel sessions V: There will be the third round of parallel sessions of the Conference dedicated to the presentations of articles selected following the call for papers. The presentations of each paper/Presenter (**maximum 15'**) will be followed by an open discussion with the Conference attendees (**maximum 5'**), and a final reply (**maximum 5'**) by the presenter/author. In total there will be **strictly 20'-25' in total for each paper.** The Chairs of the parallel sessions should ensure the timing is respected.

*A **Gala Cocktail-Dinner*** will be offered by to the participants in the evening. During the event, a Special award and the Best paper award will be delivered to the prized people. Venue: Casa Palacio de la Condesa de Lebrija, Address: Calle/Cuna, nº 8, 41004 Seville.

➔ Third day (Friday, 27 September 2019)

Plenary session (4): The last day of the Conference will take off with the opening speech by **Gabriel Pérez Alcalá** (President of Loyola Andalusia University) in **10'** of time. **Irmgard Nübler** (International Labour Organisation, CH) will chair of this Plenary Session where **Marco Vivarelli** (Università Cattolica di Milano, IT) will offer a keynote speech on a crucial topic of the Conference: "Impact of innovation and industrial transformation on employment and skills". He will have **about 20' of time** for his speech to which will follow a short Q&A session of about 10' of time.

Parallel Sessions VI and VII: There will be the second round of parallel sessions of the Conference dedicated to the presentations of papers selected following the call for papers. The presentations of each paper/Presenter (**maximum 15'**) will be followed by an open discussion with the Conference attendees (**maximum 5'**), and a final reply (**maximum 5'**) by the presenter/author. In total there will be **strictly 20'-25' in total for each paper.** The Chairs of the parallel sessions should ensure the timing is respected.

Plenary Session (5): The closing plenary session of the third day will be centred on a summary of the main scientific output from CONCORDi 2019 streamlining the links to EU policy. Such summary will be offered by three speakers who are members of the Scientific Committee: **Chiara Criscuolo**, **Mariagrazia Squicciarini** (OECD, FR) and **Reinhilde Veugelers** (Katholieke Universiteit Leuven, BE). They will have **10-15' time each.** A short Q&A session of about 5-10' of time will follow. The Chair of this Plenary session, **Luis Delgado** (Acting Director, Directorate for Growth and Innovation, JRC, European Commission) and **Antonio Pulido Gutiérrez** (President of Fundación Cajasol, ES) in **10'** of time each will elaborate on the concluding statements and close the Conference. This Plenary will be *webstreamed* from CONCORDi webpage.

→ A Poster Session: Selected posters will be open along the two first days of the Conference templated for posters will be provided. A parallel poster session with some posters displaying the results of the scientific work on subjects relevant to the Conference and authored by JRC scientists will be also offered.

→ The Special Award will be granted by the Steering Committee for outstanding and constant merits, and announced during the cocktail-dinner on Thursday 26th of September

→ The Best Paper Award will be granted by the Scientific Committee and announced during the cocktail-dinner on Thursday 26th of September.

→ Publication: The most excellent papers presented at the Conference will be proposed for publication in a special issue of an international scientific journal after following the journal's usual refereeing procedures.

Expected attendees: About 160 people from academia, policy-making, economic and policy analysts, corporations.

Venue of the Conference (25-27 September 2019)

Fundación | Cajasol

Address: Plaza de San Francisco, 1 - 41004 Seville (Spain); entrance from Calle Chicarreros, 1 (perpendicular to Plaza de San Francisco).

Venue of the cocktail-dinner (26 September 2019, from 20h00 to 22h00)
Casa Palacio de la Condesa de Lebrija. Address: Calle Cuna, nº 8, 41004 Seville.

Registration: There are no registration fees requested to attend the Conference. Registered people are suggested to reach the Conference venue one hour prior the starting time of the conference to be able to go pick up their badges and other material on time.

Hotel booking and other logistical information: Please, take into account that hotels are very busy in Seville in the week when the Conference will take place. We recommend you to book your flights and hotel as soon as possible.
Information about hotels and transportation can be found here: http://iri.jrc.ec.europa.eu/concord/2019/logistics

Contact information:

CONCORDi 2019 website: http://iri.jrc.ec.europa.eu/concord/2019/index.html
Contact email: JRC-CONCORDi@ec.europa.eu
Information on previous editions of CONCORDi can be found here: http://iri.jrc.ec.europa.eu/concord.html

ANNEX II: Conference Committees

Scientific Committee

Román Arjona (European Commission, BE)
Anna Bergek (Chalmers University of Technology, SE)
Alex Coad (Universidad Pontificia del Perù, PE)
Chiara Criscuolo (OECD, FR)
Koen Frenken (Utrecht University, NL)
Bronwyn H. Hall (University of California at Berkeley, USA)
Pietro Moncada-Paternò-Castello (European Commission, ES)
Irmgard Nübler (International Labour Organisation, CH)
Raquel Ortega-Argilés (University of Birmingham, UK)
Sven Schimpf (Fraunhofer, DE)
Mariagrazia Squicciarini (OECD, FR)
Reinhilde Veugelers (Katholieke Universiteit Leuven, BE)
Marco Vivarelli (Università Cattolica di Milano, IT).

Organising Committee

Sara Amoroso (European Commission, JRC)
Alessandra Collechia (OECD)
Marta Dominguez (European Commission, JRC)
Nicola Grassano (European Commission, JRC)
Fernando Hervás (European Commission, JRC)
Pietro Moncada-Paternò-Castello (European Commission, JRC), *Coordinator*
Lesley Potters (European Commission, JRC)
Emanuele Pugliese (European Commission, JRC)
Alessandro Rainoldi (European Commission, JRC)
Dimitris Pontikakis (European Commission, JRC)
Alexander Tübke (European Commission, JRC).

ANNEX III Bios of Scientific Committee members and of Keynote Speakers



Román Arjona is Chief Economist and Head of Strategy and Foresight at the Directorate-General for Research & Innovation of the European Commission (BE). He is Vice-Chair of the OECD's Committee for Science and Technology Policy (CSTP). He previously served in the Spanish government as Secretary-General for Science, Technology and Innovation, and before joining the Commission he was adviser to the Spanish State Secretary and the Spanish Minister for Science and Technology. Mr Arjona worked for the European Investment Bank and the International Monetary Fund as well as for the OECD as an economist. He is a former member of the World Economic Forum's High-Level Advisory Group of the Europe Inclusive Growth and Competitiveness Lab, and its Global Agenda Council on New Growth Models. Román graduated in Economics at the University of Valencia, and holds a Masters' degree in European Economic Studies from the College of Europe in Bruges and a PhD in Economics from the European University Institute in Florence.



Anna Bergek is Full Professor in Innovation Systems and Technology Policy at the Chalmers University of Technology (SE) since October 2016. *She studies innovation in mature industries and innovation systems*, with particular focus on the energy sector. The aim of the research is to understand under what conditions mature companies and industries can remain innovative, how new technology can enter and diffuse in sectors that are in need of a sustainability transition and how energy and technology policy instruments should be designed to facilitate innovation and transition. Since 1 March 2018, Anna is Deputy Head of Department and Vice Head of Department with focus on research.



Alex Coad is Professor at CENTRUM-Católica Graduate Business School (Lima, Peru), and is interested in the areas of firm-level R&D investment, firm performance, entrepreneurship, strategy, and innovation policy. Alex has published over 70 articles in international peer-reviewed journals. According to google-scholar, Alex has over 6000 citations and an H-index of 36. Alex is an Editor at the journals 'Research Policy' (Financial Times Top 50 list of journals for Business Schools) and 'Small Business Economics', and an Associate Editor for 'Industrial and Corporate Change' (Oxford University Press). Previously Alex obtained a PhD from Université Paris 1 Panthéon-Sorbonne and the Sant'Anna School, Pisa, Italy, and held academic positions at the Max Planck Institute (Jena, DE), Aalborg University (Denmark), and SPRU (Univ. Sussex, UK), before being an Economic Analyst at the European Commission (IRI group, JRC-IPTS, Sevilla). In December 2016, Alex received the 2016 Nelson Prize at University of California Berkeley.



Chiara Criscuolo is head of the Productivity and Business Dynamics Division in the Directorate for Science, Technology and Innovation at the OECD. Chiara's work focuses on entrepreneurship, enterprise dynamics, productivity and policy evaluation. She has coordinated large cross-country microdata projects on employment dynamics, productivity, as well as research and development. Chiara has played a lead role in advancing the use of firm level data and of microdata projects within the OECD. She co-manages the Global Forum on Productivity. She has contributed to key horizontal and high level projects and publications, including the OECD volumes "Future of Productivity", "New sources of growth: Knowledge Based capital", and the "OECD Innovation Strategy". She co-manages the Global Forum on Productivity and is a member of the French and Portuguese National Productivity Boards. Her research on innovation, business dynamics, productivity, policy evaluation and international trade has been published in leading academic journals. She also lectured at the University of Siena, City University and University of Cambridge. Chiara is a research associate at the Centre for Economic Performance at the London School of Economics, where she was a research fellow before joining the OECD. She holds a doctoral degree in Economics from University College London.



Koen Frenken is Full Professor in Innovation Studies at the Copernicus Institute of Sustainable Development at Utrecht University (NL). He received personal grants in the Marie Curie, NWO Vidi and NWO Vici programmes. Theoretical interests include evolutionary economics, institutional theory and complexity theory. He mainly works on breakthrough innovation, economic geography, platform economy and innovation policy. You can follow Koen on Twitter via @kfrenken.



Bronwyn H. Hall is Professor of Economics Emerita at the University of California at Berkeley (USA), Visiting Professor at MPI-Munich (DE), and a Research Associate at the NBER and IFS-London (UK). She has published numerous articles on the economics and econometrics of technical change and innovation and is the editor of the Handbook of the Economics of Innovation in the Elsevier series. Her research includes comparative analysis of the U.S. and European patent systems, the use of patent citation data for the valuation of intangible (knowledge) assets, comparative firm level R&D investment and innovation studies, measuring the returns to R&D and innovation, and analysis of technology policies such as R&D subsidies and tax incentives. She has made substantial contributions to applied economic research via the creation of software for econometric estimation and of firm level datasets for the study of innovation, including the widely used NBER dataset for U.S. patents.



Hiroshi Kuniyoshi Mr. Hiroshi Kuniyoshi is the Deputy to the Director General and the Managing Director of External Relations and Policy Research (EPR) of UNIDO since April 2017.

In April 1984, he joined the Government of Japan's Ministry of International Trade and Industry (now known as METI), where he planned and implemented a variety of industrial and technology policies in various sections, including the Planning Office of the Minister's Secretariat, the Natural Resources and Energy Agency, the Small and Medium Enterprises Agency and the Kansai Bureau.

He served as an advisor to the Director General of UNIDO from 2000 to 2004, and made a considerable contribution to UNIDO's strategic pursuits through the coordination of the Board of Directors' Retreats, Industrial Development Forums among other activities.

In August 2006, Mr. Kuniyoshi was appointed Professor at Tokyo Institute of Technology, where he conducted research and education in policy studies related to industry, technology and innovation.

In September 2012, he was appointed Executive Director of the New Energy and Industrial Technology Development Organization (NEDO), one of Japan's largest public organizations in research and development. At NEDO, he was in charge of global collaborative projects for the development of low-carbon technologies such as renewable energy, battery storage and smart grids. He also served as Vice-Chairman of the Global Smart Grid Federation, a world-wide network of national associations for smart grids.

In January 2016, he was appointed Head of the UNIDO Investment and Technology Promotion Office, Tokyo, (UNIDO ITPO Tokyo), where he worked closely with Japanese industries in areas related to technology transfer and investments to developing countries.

Mr. Hiroshi Kuniyoshi holds a Master's degree in International Relations from the University of Cambridge and a Ph.D. in Energy Science from the Kyoto University.



Pietro Moncada-Paternò-Castello is *Senior Expert* in Economics and Policy of Industrial Research and Innovation at the European Commission (EC), Joint Research Centre (JRC) – Directorate for Growth and Innovation (ES). He holds a BSc in Agricultural Sciences (major in techno-economics) from the University of Catania (IT), a MSc in Management of Technology from the Massachusetts Institute of Technology (USA) and a PhD in Economics and Management from the Université Libre de Bruxelles (BE). Before joining JRC he worked, as Founder and President, in the Agency for Natural Resources Energy and Technology (ANETEC, B), in the MIT Energy Laboratory, Electric Utility Program (USA) and in the EC's Directorate General for Research and Technological Development (BE). Former responsibilities within the EC's JRC include: Acting Head of Unit, "Knowledge for Growth" and "Support to the European Research Area"; Action Leader, "Economics of Industrial Research and Innovation"; Manager, "European Science and Technology Observatory"; Co-ordinator, "Innovation, Diffusion and Growth". His research interests include: economics of corporate R&D and innovation, industry dynamics, innovation and competitiveness; management of technological change; technology transfer; and research & innovation policy. He has published over 100 scientific papers, scientific and technical reports, and policy briefs.



Irmgard Nübler is a Senior Economist at the International Labour Organisation (ILO), Switzerland. She is leading the research program on technology, productive transformation, jobs and decent work. In previous capacities in the ILO she was responsible for developing work programs on Skills development and apprenticeship systems, and on Industrial policies, learning and capabilities for job creation. Before joining the ILO, she was a Professor of Economics at the Free University of Berlin and conducted research, among others, at the Massachusetts Institute of Technology in Boston and the Institute for Development Studies at the University of Nairobi. She holds a PhD in Economics from the Free University of Berlin.



Raquel Ortega-Argilés is Professor and holds the Chair of Regional Economic Development at City REDI Institute at the University of Birmingham (UK) where she leads the modelling and quantitative analysis team. Previously she has held positions at the Max Plank Institute for Economics Jena, European Commission Joint Research Centre, Technical University of Lisbon and the University of Groningen. She is an economic researcher and policy adviser specialising in issues of regional development, firm performance, innovation and competitiveness, entrepreneurship and Brexit. Raquel has experience of building very large datasets and undertaking advanced econometric modelling. Her scientific work has been published in many different international academic journals and academic research books, and ranges in approach from advanced econometric and statistical modelling to case study techniques. Raquel is an editor of Regional Studies. Professor Ortega-Argiles also has extensive experience as policy advisor, from projects with the European Commission, the European Parliament, OECD, European Investment Bank, the Joint Research Centre of the European Commission as well as government ministries in Spain, Poland, Hungary, Germany, Italy and Greece. Currently, Raquel is coordinating the ESRC- UK in Changing Europe project: “The economic impacts of Brexit on the UK, its regions, its cities and its sectors”.



Dirk Pilat, a Dutch national, is Deputy Director of the OECD Directorate for Science, Technology and Innovation. Dirk joined the OECD in February 1994 and has worked on many policy issues since then, including innovation, the role of digital technologies for economic growth, environmental innovation, labour markets, regulatory reform, global value chains, productivity and entrepreneurship, as well as health innovation. He is currently helping to coordinate the OECD's new *Going Digital* project, which aims to help policymakers better understand the digital transformation and develop recommendations for pro-active policies that will help drive growth and well-being. Dirk was responsible for the OECD’s Committee for Scientific and Technological Policy from 2006 to January 2009, and for the Committee on Industry, Innovation and Entrepreneurship from February 2009 to December 2012. Before joining the OECD, he was a researcher at the University of Groningen, where he also earned his PhD in Economics, working primarily on productivity and economic growth.



Mariagrazia Squicciarini is a Senior Economist – Head of Unit at the Organisation for Economic Co-operation and Development (OECD), within the Directorate for Science Technology and Innovation (STI). She is responsible for the OECD Working Party on Industry Analysis (WPIA), which develops indicators and quantitative analysis in the area of innovation and economic performance. Her work encompasses the changing determinants of growth and productivity; the economics of Intellectual Property Rights (IPR); knowledge based capital measurement and analysis; global value chains (GVCs); and jobs and skills in the digital transformation; and the digital gender divide. She is responsible for the IPR-related data and analysis work carried out in the Directorate, and oversees the STI Microdata Lab initiative. She holds a Ph.D. in Economics from the University of Essex (UK) and has had previous appointments at VTT Technical Research Centre of Finland (FI), the University of Essex (UK), the EC-JRC "Institute for Prospective Technological Studies"(IPTS, ES), and the Italian National Research Centre for the Development of Advanced Materials (CNRSM, IT). She has published a number of scientific papers and reports, and acts as a reviewer for many international peer-review journals.



Sven Schimpf studied socioeconomics and business administration in industrial management at the University of Augsburg (DE) and University Rennes (FR) complemented by a PhD in engineering at the University of Stuttgart. Between 2002 and 2017 he worked at the department of R&D Management at Fraunhofer Institute for Industrial engineering, responsible for the thematic area of strategic Technology and Innovation Management. Since 2017, he is managing director of the Fraunhofer Group for Innovation Research. In addition to numerous academic and industry collaboration projects and teaching, he is involved in the editorial Board of IGI International Journal of R&D Innovation Strategy, IEEE Transactions on Engineering Management and the International Journal of Innovation and Technology Management as well as Referee of the International Journal for Technological Forecasting & Social Change and the R&D Management Journal.



Anita Schjøll Brede is the CEO and Co-Founder of Iris.ai – an AI researcher that will read all of the world's science and help us connect the dots. She is also Faculty in AI at Singularity University. Forbes claims she's among the world's top 50 women in tech. The past decade her career has spanned 10 industries including developing an e-learning tool in Silicon Valley, performing theatre for babies, reducing energy consumption in the process industry through heat exchanger network optimization, getting 30 (mainly middle-age male) engineers to dance to ABBA in front of their co-workers, facilitating solar light business creation in Kenya, being in the centre of several start-ups crashing and burning, organizing entrepreneurial conferences and trying to disrupt the recruitment industry. She also dropped by 6 universities on the way. And built a race car.



Reinhilde Veugelers. Prof Dr. Reinhilde Veugelers is a full professor at KULeuven (BE) 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 Europea. From 2004-2008, she was on academic leave, as advisor at the European Commission (BEPA Bureau of European Policy Analysis). She served on the ERC Scientific Council from 2012-2018 and on the RISE Expert Group advising the commissioner for Research. She is a member of VARIO, the expert group advising the Flemish minister for Innovation. She is currently a member of the Board of Reviewing Editors of the journal Science.



Marco Vivarelli holds a Ph.D. in Economics and a Ph.D. in Science and Technology Policy. He is full professor at the Catholic University of Milano (IT) where he is also Director of the Department of Economic Policy. He is Professorial Fellow at UNU-MERIT, Maastricht; Research Fellow at IZA, Bonn; Fellow of the Global Labor Organization (GLO). He is member of the Scientific Executive Board of the Eurasia Business and Economics Society (EBES, Istanbul); member of the International Board of the Austrian Institute of Economic Research (WIFO, Vienna) and has been scientific consultant for the International Labour Office (ILO), World Bank (WB), the Inter-American Development Bank (IDB), the United Nations Industrial Development Organization (UNIDO) and the European Commission. He is Editor-in-Chief of the Eurasian Business Review: A Journal in Industrial Organization, Innovation and Management Science; Editor of Small Business Economics, Associate Editor of Industrial and Corporate Change, Associate Editor of Economics E-Journal, member of the Editorial Board of Sustainability and he has served as referee for more than 90 international journals. He is author/editor of various books and articles. His current research interests include the relationship between innovation, employment and skills; the labour market and income distribution impacts of globalization; the link between innovation and industrial dynamics.