



UNIVERSITÀ
CATTOLICA
del Sacro Cuore



Sant'Anna
Scuola Universitaria Superiore Pisa



Università
Bocconi
MILANO

Technology, Employment and Industrial Dynamics: Theory and Empirical Evidence

7TH AND 8TH APRIL, 2022

Scuola Superiore Sant'Anna, Pisa, Italy

DAY 1 – 7TH APRIL – AULA MAGNA

14:00 – Opening address

[DANIELE MOSCHELLA](#) (Scuola Superiore Sant'Anna)

[MARCO VIVARELLI](#) (Università Cattolica del Sacro Cuore) – Project Principal Investigator

14:15 – Keynote address

[ALFRED KLEINKNECHT](#) (Delft University of Technology) “*Why is productivity growth so low (in the age of artificial intelligence and robots)?*”

Chair and Discussant: [MARCO VIVARELLI](#) (Università Cattolica del Sacro Cuore)

15:15 – Session 1: Technology, employment and skills

Chair: [ANDREA MINA](#) (Scuola Superiore Sant'Anna)

[LIUCHUN DENG](#) (Yale-NUS College), [STEFFEN MÜLLER](#) (Halle Institute for Economic Research), [VERENA PLÜMPE](#) (Halle Institute for Economic Research), [JENS STEGMAIER](#) (Institute for Employment Research) “*Plant-Level Effects of Robot Adoption*”

DISCUSSANT: Dario Guarascio (Sapienza-Università di Roma)

[ALESSANDRO STERLACCHINI](#) (Università Politecnica delle Marche) “*AI patenting and employment: Evidence from the worlds’ top R&D investors*”

DISCUSSANT: Jacopo Staccioli (Università Cattolica del Sacro Cuore)

[MATTIA PEDOTA](#) (Politecnico di Milano), [LUCA GRILLI](#) (Politecnico di Milano), [LUCIA PISCITELLO](#) (Politecnico di Milano) “*Technology adoption and upskilling in the wake of Industry 4.0*”

DISCUSSANT: Valeria Cirillo (University of Bari)

[ANTONIO MARTINS-NETO](#) (UNU-MERIT), [XAVIER CIRERA](#) (World Bank), [ALEX COAD](#) (Waseda Business School) “*Job displacement and routine-intensive occupations: evidence from a developing country*”

DISCUSSANT: Armanda Cetrulo (Scuola Superiore Sant'Anna)

17:15 coffee break

17:30 – Session 2: Innovation and the firm

Chair: [NICOLETTA CORROCHER](#) (Bocconi University)

[ILYA MANUYLOV](#) (Aarhus University) “*The Role of ‘Research’ and ‘Development’ in Technology Upgrading of a Firm*”

DISCUSSANT: Arianna Martinelli (Scuola Superiore Sant'Anna)

[SARA AMOROSO](#) (European Commission), [RANDOLPH LUCA BRUNO](#) (University College London), [LAURA MAGAZZINI](#) (Scuola Superiore Sant'Anna) “*The identification of time-invariant variables in panel data model: exploring the nexus between appropriability and productivity in highly innovative and globalised companies*”

DISCUSSANT: Piotr Dzikowski (University of Zielona Góra)

20:30 social dinner

10:00 – Session 3: Direction and nature of innovation

Chair: **DANIELE MOSCHELLA** (Scuola Superiore Sant'Anna)

MARTINA IORI (Scuola Superiore Sant'Anna), **ARIANNA MARTINELLI** (Scuola Superiore Sant'Anna), **ANDREA MINA** (Scuola Superiore Sant'Anna) *“The direction of technical change in AI and the trajectory effects of government funding”*

DISCUSSANT: Gianluca Capone (University of Parma)

CARL BENEDIKT FREY (University of Oxford), **GIORGIO PRESIDENTE** (University of Oxford) *“Data-Biased Innovation”*

DISCUSSANT: Simone Maria Grabner (Università Cattolica del Sacro Cuore)

IMAD EL-HAMMA (CNAM), **NATHALIE GREENAN** (CNAM), **SILVIA NAPOLITANO** (CNAM) *“Technological and organisational changes and their relationship with innovation: EU-wide empirical evidence from a combined dataset”*

DISCUSSANT: Fabio Montobbio (Università Cattolica del Sacro Cuore)

11:30 – Keynote address

GUIDO BUENSTORF (University of Kassel) *“Entrepreneurship as a driver of innovation and industry evolution: from evidence to intervention”*

Chair and Discussant: **GIOVANNI DOSI** (Scuola Superiore Sant'Anna)

12:30 lunch break

14:00 – Session 4: Innovation and the labour market

Chair: **FABIO MONTOBBIO** (Università Cattolica del Sacro Cuore)

MARIO PIANTA (Scuola Normale Superiore), **JELENA RELJIC** (Scuola Superiore Sant'Anna) *“The good jobs-high innovation virtuous circle”*

DISCUSSANT: Chiara Mussida (Università Cattolica del Sacro Cuore)

STEFANO DUGHERA (University of Turin), **FRANCESCO QUATRARO** (University of Turin), **ANDREA RICCI** (INAPP), **CLAUDIA VITTORI** (Roma Tre University) *“Technological externalities and wage premium: new evidence from Italian labor markets”*

DISCUSSANT: Nicoletta Corrocher (Bocconi University)

FILIPPO BELLOC (University of Siena), **GABRIEL BURDIN** (Leeds University), **FABIO LANDINI** (University of Parma) *“Robots, Digitalization, and Worker Voice”*

DISCUSSANT: Maria Enrica Virgillito (Scuola Superiore Sant'Anna)

ILONA PAVLENKOVA (University of Tartu), **LUCA ALFIERI** (University of Tartu), **JAAN MASSO** (University of Tartu) *“Effects of Automation on the Gender Pay Gap: the case of Estonia”*

DISCUSSANT: Daniele Moschella (Scuola Superiore Sant'Anna)

16:00 – Closing wrap up

MARCO VIVARELLI (Università Cattolica del Sacro Cuore) – Project Principal Investigator

ANDREA MINA (Scuola Superiore Sant'Anna)

17:00 farewell coffee

List of participants (in alphabetical order)

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