

# **Innovation, firm dynamics, employment and growth: New developments in modeling and estimation**



**A Workshop organised jointly by**

***Greenwich Political Economy Research Centre (GPERC) at  
the University of Greenwich***

**&**

***The Department of Economic Policy at Università Cattolica  
del Sacro Cuore, Milano***

**21 June 2019  
University of Greenwich, London**

*You are cordially invited to this workshop, which brings together 14 original papers authored by 43 distinguished contributors to the research field. The workshop aims to foster knowledge exchange on innovation, employment and growth. It is of interest for researchers, PhD students and policy-makers.*

To register, [please follow this link](#).

## Workshop

### **Innovation, firm dynamics, employment and growth: New developments in modeling and estimation**

**Date: 21 June 2019: 9.30 am – 6.30 pm**

**Venue: University of Greenwich, Old Royal Naval College, London SE10 9LS**

#### **Taking stock**

There is a rich literature on how innovation may affect job creation, firm survival and productivity growth. The evidence tends to indicate positive (but often small) effects on employment, an “innovation premium” in terms of firm survival and a positive effect on productivity growth.

However, the findings exhibit a high degree of heterogeneity in general and a non-trivial frequency of adverse effects on employment and wage inequalities. Furthermore, innovation’s effects may be non-linear, with the implication that researchers and policy-makers should pay more attention to scale and threshold effects.

#### **Moving forward**

The workshop brings together 14 original research papers authored by 43 distinguished contributors to the research field. The papers address five themes, four of which are substantive and one is methodological:

- The effects of artificial intelligence and robotization on jobs/skills/tasks
- The patterns of job creation, job destruction and job reallocation by technology class, firm age/size and distance to the technology frontier
- Sources of heterogeneity in the effects of innovation on firm survival and productivity growth by countries, sectors and firm types
- Public support for innovation: Policy design and performance issues
- Causal pathways and contingencies in the relationship between innovation and employment, productivity growth and survival

The workshop is of interest for established researchers, PhD students and policy-makers. Presentations of papers listed below will be followed by comments from pre-assigned discussants and Q&A sessions.

Workshop attendance is free of charge, thanks to funding by Greenwich Political Economy Research Centre (GPERC).

<b>Author(s)</b>	<b>Paper title</b>
Alex Coad, Agustí Segarra-Blasco and Mercedes Teruel	<i>From basic R&amp;D to the technological development: Explaining the returns according to firm age</i>
Antonio Andreoni and Guendalina Anzolin	<i>Robots and global value chains: How manufacturing automation is changing production organisation and systems.</i>
Caio Torres Mazzi and Neil Foster-McGregor	<i>Imported intermediates, technological capabilities and exports: Evidence from Brazilian firm-level data</i>
Dario Guarascio and Federico Tamagni	<i>Persistence of innovation and patterns of firm growth</i>
Eshref Trushin and Mehmet Ugur	<i>Firm heterogeneity, learning and survival on rugged fitness landscapes</i>
Fabio Montobbio, Jacopo Staccioli, Maria Enrica Virgillito and Marco Vivarelli	<i>Robots and their knowledge generation: Patenting and firm-level performance</i>
Giovanni Dosi, Mariacristina Piva, Maria Enrica Virgillito and Marco Vivarelli	<i>Embodied and disembodied technological change: The sectoral patterns of job-creation and job-destruction</i>
Giacomo Domini, Daniele Moschella, Marco Grazi, and Tania Treibich	<i>Trade and employment dynamics: The role of digital investment</i>
Irem Guceri	<i>Quantifying and Alleviating Financing Constraints for Innovative Firms</i>
Lucrezia Fanti, Dario Guarascio and Matteo Tubiana	<i>Skill Gap, Mismatch, and the Dynamics of Italian Companies' Productivity</i>
Marco Guerzoni, Massimiliano Nuccio and Consuelo Nava	<i>A machine learning approach to detect innovative firms: survival and wealth creating by innovative firms during the economic crisis</i>
Randolph Luca Bruno, Elodie Douarin, Julia Korosteleva and Slavo Radosevic	<i>Determinants of productivity gap in the EU: A multilevel perspective</i>
Rui Baptista (Keynote)	<i>Human Capital and the Performance of New Firms over Time</i>
Tommaso Ciarli, Alberto Marzucchi, Edgar Salgado and Maria Savona	<i>Firm Innovation and Wage Inequality</i>

### **Workshop committee**

Professor Marco Grazi, Università Cattolica del Sacro Cuore, Milano  
 Professor Fabio Montobbio, Università Cattolica del Sacro Cuore, Milano  
 Professor Mehmet Ugur, University of Greenwich  
 Dr Maria Enrica Virgillito, Università Cattolica del Sacro Cuore, Milano  
 Professor Marco Vivarelli, Università Cattolica del Sacro Cuore, Milano

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