



## **Varieties of Technological and Organizational Changes in the Age of Automation and Digitalisation**

**27 May 2021**

**Web-conference**

**[Webex Link](#)**

*A workshop organised by the SSSA node of ARTES 4.0  
Institute of Economics*

The workshop is intended to shed light on ongoing cutting-edge research on automation and digitalisation involving firms, sectors of activity, and labour processes.

Including analyses on

- (i) mapping of the knowledge base of the latest wave of Industry 4.0
- (ii) unfolding of digitalization and automation upon firms and sectors in terms of organizational practices
- (iii) patterns of continuity with respect to the past dominant technological paradigms
- (iv) interaction with global value chains and multi country perspectives

The workshop will be an opportunity to understand how the manufacturing processes are changing.



## Programme

### Introduction (11.00-11.15)

- ARTES 4.0 awareness node representative  
Giovanni Dosi (Scuola Superiore Sant'Anna)

### Morning Session (11.15-12.30)

#### *Digitalisation, Lean production and Labour Process Restructuring: Evidence from the Automotive Sector in Europe*

Chair: Armanda Cetrulo (Scuola Superiore Sant'Anna)

- Angelo Moro (ARTES – Scuola Superiore Sant'Anna) (20')  
*Digitalean at Work: Varieties of Lean Models in Automotive Factories in Italy*
- Katarína Lukáčová (Scuola Normale Superiore – Scuola Superiore Sant'Anna) (20')  
*Shaping the path toward sustainability: Technological Change and Upgrading in Visegrad Automotive Subsidiaries*
- Juan Sebastian Carbonell (Gerpisa, ENS Paris-Saclay, IDHES) (20')  
*Restructuring the Labour Process through Digitalisation, the Case of a PSA Factory in France*

Discussant: Matt Vidal (Loughborough University London) (15')

### Keynote address (12.30-13.10)

Martin Krzywdzinski (Helmut Schmidt University – WZB)

*Automation, Digitalization and Changes in Occupational Structures in the Automobile Industry*

Questions and answers (13.10-13.30)



**Lunch break (13.30-14.45)**

**Afternoon Session (14.45-16.00)**

***Knowledge Base and Technological Trajectories in the Digital Era***

Chair: Daniele Moschella (Scuola Superiore Sant'Anna)

- Andrea Mina (Scuola Superiore Sant'Anna) (20')  
*The Enabling Technologies of Industry 4.0: Examining the Seeds of the Fourth Industrial Revolution*
  
- Valeria Cirillo (University of Bari) (20')  
*Digitalizing Firms: Skills, Work Organization and the Adoption of New Enabling Technologies*
  
- Francesco Rentocchini (JRC – University of Milan) (20')  
*Going Revolutionary: The Impact of 4IR Technology Development on Firm Performance*

Discussant: Nanditha Mathew (UN-MERIT) (15')

**Keynote address (16.00-16.40)**

Erica Fuchs (Carnegie Mellon)

*Global manufacturing and the future of technology and work*

Questions and answers (16.40-17.00)



**Final Round table (17.00-18.15)**

***Towards Digitalean? Lean Production and Digital Technologies in the Manufacturing Sector***

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

- Giovanni Dosi (Scuola Superiore Sant'Anna)
- Erica Fuchs (Carnegie Mellon)
- Martin Krzywdzinski (Helmut Schmidt University)
- Tommaso Pardi (Université Paris-Saclay, GERPISA)
- Robert Seamans (NYU Stern)