

The Fourth Industrial Revolution: promises and pitfalls in blending new and traditional approaches in manufacturing and service sectors

March, 11th – 15th
Loano (SV)

Coordinator Paolo Neirotti
Tutors G. Attanasio, R. Colombari, C. Montipò, D. Pesce, F. Strada

Monday, March 11th

10:45 – 11:00 **Welcome Address**
ASP Board

11:00 – 11:45 **Introduction to the School**
Paolo Neirotti, Politecnico di Torino, Dep. of Management and Production Engineering

11:45 – 13:15 **Technologies and architectures for data science and big data management**
Elena Baralis, Politecnico di Torino, Dep. of Control and Computer Engineering

13:15 *Lunch*

14:30 – 15:30 **Knowledge discovery process: Self-tuning strategies for a deeper understanding of real industrial data**
Tania Cerquitelli, Politecnico di Torino, Dep. of Control and Computer Engineering

15:30 – 16:45 **Data visualization and new machine-man interfaces: Augmented Reality (AR) and Virtual Reality (VR)**
Andrea Bottino, Politecnico di Torino, Dep. of Control and Computer Engineering

17:05 – 17:30 **Introduction to the project work**

17:30 – 19:00 **Project work. Step 1**

19:00 – 19:30 **Wrap-up of the Day**

Tuesday, March 12th

09:00 – 10:45 **Industry 4.0: smart products, smart process and new business models**
Marco Taisch, Politecnico di Milano, School of Management of Politecnico di Milano

11:15 – 12:30 **Industry 4.0 – Achievements and the Journey ahead**
Guido Hertel, AT Kearney

12:30 *Lunch*

14:00 – 15:30 **Robots, vision, and data: how industrial automation is changing the production processes**
Paolo Rocco, Politecnico di Milano, Dep. of Electronics, Information and Bioengineering

15:30 – 16:00 **Introduction to the project work – Step 2**

16:00 – 18:30 **Project work. Step 2**

18:30 – 19:00 **Wrap-up of the Day**

Wednesday, March 13th

09:00 – 11:00 **Technology: developments, promises and challenges over the years**
Harry Boer, Aalborg University, The Faculty of Engineering and Science

11:30 – 13:00 **Digitalization and the transformation of work**
Paolo Neirotti, Politecnico di Torino, Dep. of Management and Production Engineering

13:10 *Lunch*

14:15 – 15:15 **Enel and the digital transformation in electrical utilities**
Giuseppe Amoroso, Enel

15:15 – 16:15 **The teaching factory and the i-Fab experience**
Tommaso Rossi, Rossella Pozzi, LIUC – Università Cattaneo, Castellanza, School of Industrial Engineering

16:15 – 17:15 **Final Exam Presentation,**
Alessandra Oppio, Emilio Paolucci, *ASP Board*

17:00 – 19:00 **Project work. Step 3**

19:00 – 19:30 **Wrap-up of the Day**

Plenary Sessions and ASP
Events will take place in
Room Luna Rossa

Thursday, March 14th

- 09:00 – 10:30 **AI, big data and the legal regulatory framework**
Alessandro Mantelero, Politecnico di Torino, Dep. of Management and Production Engineering
- 11:10 – 12:00 **IKEA and its digital transformation**
Fides Tosoni, Ikea
- 12:00 – 13:00 **Virtual Reality in healthcare and assisted living. SAM4.0Care: Smart Advanced Modeling for Care**
Anna Osello, Politecnico di Torino, Dep. of Structural, Geotechnical and Building Engineering
- 13:00 *Lunch*
- 14:00 – 15:00 **Digitalization of the cultural heritage industry**
Valeria Gasparotti, Google
- 15:00 – 15:30 **Best practices in the Digital Transformation of cultural heritage: The Van Gogh Museum**
Danilo Pesce, Politecnico di Torino, Dep. of Management and Production Engineering
- 15:45 – 16:45 **World Class Manufacturing and the Digital Factory**
Francesco Canuto, FCA
- 17:00 – 19:00 **Project work. Step 4**
- 19:00 – 19:15 **Wrap-up of the Day**

Friday, March 15th

- 09:00 – 10:30 **The data deluge and how our brain works**
Giulio Zotteri, Politecnico di Torino, Interuniversity Department of Regional and Urban Studies and Planning (DIST)
- 11:00 – 12:30 **Digital Open Urban Twins**
Matteo Robiglio, Politecnico di Torino, Dep. of Architecture and Design
Antonio Vetrò, Dep. of Control and Computer Engineering
- 12:30 – 13:30 **Project Work Presentation**
- 13:30 *Lunch*

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