

18th IEEE International Conference on Networking, Sensing and Control

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Special session: Industry 4.0 and AI, from theory to industrial case study

Session Co-Organizers:

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Session description:

Industry 4.0 is seen as the next industrial revolution. The current pandemic has accentuated the need for the industry to transition to digital. While large groups are often already well aware of the needs, they nevertheless suffer from many handicaps: the lack of skills of their operators and their middle managers on the one hand and the delay in their networks of subcontractors on the other hand.

The purpose of the special session is twofold. The first is to provide an overview of the approaches companies and systems implemented in different countries and sectors to successfully achieve digitalization. The second is to examine the contribution of different technologies to the acceleration of digitalization from a technical and human point of view ensuring a good match between industrial performance, deployment and preparation for change.

Topics of interest include, but are not limited to:

- Robotics, cobotics and production management
- Digital twin and digital continuity
- Virtual and augmented reality
- Internet of things (IoT) and artificial intelligence of things (AIoT)
- Data science and artificial intelligence
- Cyber-physical systems
- Proof of concepts from research to industry
- Case studies

Submission:

Complete manuscripts must be electronically submitted through easychair at: <https://easychair.org/conferences/?conf=icnsc2021> Submitted manuscripts should be within six (6) pages in IEEE two-column format, including figures, tables, and references. Please use the templates at Manuscript Templates for IEEE Conference proceedings from the conference website to prepare your paper. All submissions MUST be in PDF format.

Deadlines:

August 1, 2021: deadline for paper submission

September 15, 2021: notification of acceptance/reject

October 15, 2021: camera-ready copy due