

# EDUCON2021 Special Session Proposal Template

## Title

*Internet of Things and Industry 4.0 Education*

## Acronym

*I4.0-Edu'21*

## Overview

The “Industry 4.0” paradigm have generated new opportunities and new challenges for companies. In order to increase their competitiveness and efficiency, companies have to face the digital transformation of the production and logistics chains (smart manufacturing) and of products (smart interconnected objects). The impact of the forth industrial revolution is huge in terms of involved stakeholders and in potential economic growth.

Internet of Things (IoT) was initially one of the pillars of Industry 4.0, however it has gradually conquered many other sectors: from smart home to smart mobility, from smart cities to logistics, from energy to agriculture. The number of connected IoT devices has long overtaken the world population and continues to grow almost exponentially. Its development has not only technological but also social and security implications.

IoT and Industry 4.0 have therefore triggered a huge educational challenge, bringing the need to re-train millions of employees and create new professionals to models and technologies unknown even ten years ago. The special session “Internet of Things and Industry 4.0 Education” within the EDUCON 2021 Conference focuses on all the educational activities related to IoT and Industry 4.0, including academic and VET programs, work-based education, virtual and remote labs for didactic porpoises, national and international educational policies and instruments, international projects.

## Topics

We welcome submissions from all topics of education applied to Internet of Things, including but not limited to the following:

- VET and academic programs on IoT
- Best practices in IoT education
- VET and academic programs on Industry 4.0
- Best practices in Industry 4.0 education
- Remote and virtual labs on IoT and/or Industry 4.0
- National and international education projects related to IoT and/or Industry 4.0
- Industry-university collaboration on IoT and/or Industry 4.0 education
- IoT education in the context of smart engineering and industry 4.0

## Technical Program Committee

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