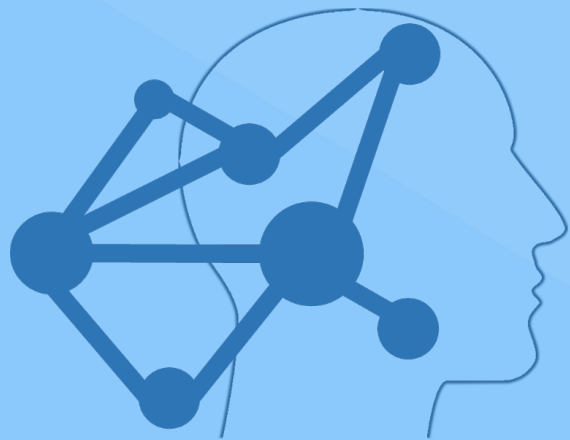


## ❖ Who we are

## ❖ Project



# CPPS 101 Cyber Physical Production Systems

**U.PORTO**  
**FEUP** FACULDADE DE ENGENHARIA  
UNIVERSIDADE DO PORTO



 **INESCTEC**

 **TU Delft**  
Delft University of Technology

- The aim of this project is to make available to students, young researchers and overall practitioners, didactic materials to educate them regarding the roots, expectations and challenges of the new technologies that are shaping the future of Industry 4.0 and the smart manufacturing concept.
- The idea is to design an online end-to-end course, tackling CPPS basics, the smart manufacturing context and retrofitting with current technologies, evolution from current SCADA/MES to CPPS in real industrial scenarios. Also, advanced materials focus in standardization issues, privacy and security of CPPS, Cloud/Edge Computing, Human-Machine Interaction, energy harvesting and data analytics.
- The course will be based in video tutorials for theoretical presentation of topics, and practical hands-on exercises, for code management, deployment and testing.

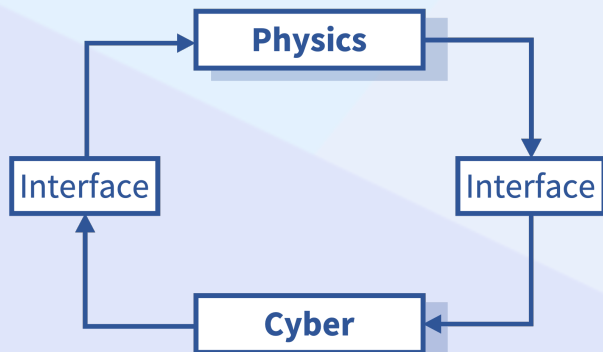
<http://cpps101.eu>



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## ❖ Motivation

- Regarding the smart manufacturing paradigm, the introduction of novel **CPPS** applications, relating heterogeneous technologies, which remain as highly demanded scientific investigation topics, creates a need among students and professionals to develop skills and know-how in these topics.
- **CPPS**  
A **Cyber Physical Production System** is a combination of physical components - hardware with cyber components tightly networked.



## ❖ Topics



## ❖ Target Group

- Computer Science students
- Electrical Engineering students
- Researchers in CPPS related topics
- European industry practitioners
- Public interested in these topics

### Contact Us



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