Université Polytechnique HAUTS-DE-FRANCE

Edge & Mobile Computing for sustainability

ECTS
4 crédits

Composante
INSA Hauts-de-France, UPHF

Présentation

Description

Goal :

• Introduction to design principles for the development of mobile applications.
• AI in edge systems
• Design and developed tools for Edge and Mobile systems
• Power and Energy consumption reduction techniques for Edge Computing.

List of subjects to be presented to the students :

- Software and Hardware architectures of embedded systems
- Design tools : programming languages, Frameworks (TensorFlow, Caffe, etc.), Benchmarks.
- Simulation tools.
- Architectural support for ML in edge computing: GPU, FPGA and multi-cores. ML application acceleration by HW and SW.
- Use-case: Smart Homes, Drones

Informations non contractuelles.
Dernière mise à jour le 13 février 2024