



University of Pavia
PhD School of Electrical and Electronics Engineering and Computer Science
PhD School of Microelectronics

Intensive School for Advanced Graduate Studies
A Smart Grid for Energy Management: the IoT approach

7th – 10th June 2021 – online sessions

Monday, June 7, 2021

Dario Zaninelli - Politecnico di Milano

[The role of renewable energy sources and distributed generation](#)

Cristian Bovo - University of Pavia

[Power network definition and tools 1](#)

Francesco Benzi

University of Pavia

[Power network definition and tools 2](#)

Francesco Benzi - University of Pavia

[Industrial IoT and smart metering](#)

Tuesday, June 8, 2021

Piero Malcovati - University of Pavia

[Measurement processes in electrical power networks](#)

Antonella Ferrara - University of Pavia

[Control and state estimation in modern power networks](#)

Andrea Mazzanti - University of Pavia

[Synchronization with the Phase-Locked Loop \(PLL\)](#)

Wednesday, June 9, 2021

Slawomir Hausman - Lodz University of Technology

[5G and Industrial IoT](#)

Pericle Zanchetta - University of Nottingham and University of Pavia

[Smart transformers and power electronics for the smart grid](#)

Thursday, June 10, 2021

Maria Evelina Mognaschi - University of Pavia

[Environmental compatibility and human body exposure](#)

Paolo Di Barba - University of Pavia

[Numerical models for electromagnetic compatibility](#)

Francesco Gnesotto - University of Padova

[The future of energy: smart grid and nuclear fusion](#)

Ezio Bassi - University of Pavia

[Active and reactive power regulation: an overview](#)

Virginia Canazza - REF-E Srl, Milano

[Electricity market](#)