

Wednesday, December 15th, 2021, 2PM to 5PM

IEEE WORKSHOP

IEEE Industrial Electronics Society - IEEE Power Systems Society - IEEE Control Systems Society

Swiss Chapters' co-hosted Virtual Event on:

Control Platforms, Tools & Innovations for the Energy Transition

WELCOME AND INTRODUCTION

14:00

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14:15

- ▶ Dr. Luca Dalessandro, ETIX GmbH, Chairman IES Chapter, Vice-Chair IEEE Switzerland
- ▶ Dr. Silvia Bardi, Vice Chair PES Chapter
- ▶ Prof. Giancarlo Ferrari Trecate, EPFL, Chairman CSS Chapter

PRESENTATIONS

14:15 - 15:00	IES1	<i>"Hoping for a miracle is not strategy: Some facts about the climate crises and what we can still do about it".</i> ▶ Prof. Henrik Nordborg, OST
	IES2	<i>"Research Platforms for the Energy Transition at ETH Zurich: ReMaP, Nexus-e, PATHFNDR".</i> ▶ Dr. Christian Schaffner, Energy Science Center, ETH Zurich
	IES3	<i>"Electric Vehicle performance and range estimation: how system simulation supports innovation".</i> ▶ Mr. Lionel Broglia, Siemens Digital Industries Software
15:00 - 15:45	PES1	<i>"Bringing AI to the edge - a federated machine learning simulation environment for load curve prediction on smart meters".</i> ▶ Dr. Severin Nowak, HSLU
	PES2	<i>"Accelerating the energy transition using digital twin and hardware-in-the-loop".</i> ▶ Dr. Nikola Fischer Celanovic, Typhoon-HIL GmbH
	PES3	<i>"Digital twin and application of AI in distribution grids".</i> ▶ Prof. Bozorg Mokhtar, HEIG-VD
15:45 - 16:30	CSS1	<i>"Benchmarking control developments in energy and buildings with NEST, an open district size living lab".</i> ▶ Mr. Philipp Heer, EMPA
	CSS2	<i>"Vision of a Swiss innovation platform for automatic control in the energy transition".</i> ▶ Mr. Benjamin Sawicki, NCCR Automation, ETH Zurich
	CSS3	<i>"Innovation to reduce the environmental impact of HV transmission lines: high-efficiency pressurized air cable technology".</i> ▶ Dr. Walter Holaus, Hivoduct AG

PANEL DISCUSSION WITH SPEAKERS - Q&A

16:30

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17:00

Moderator: Dr. Luca Dalessandro

Program & Registration

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ieee.org/m/291695](https://events.vtools.ieee.org/m/291695)

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us/j/66157053428](https://hslu.zoom.us/j/66157053428)