ERIGrid 2.0 Summer School

Advanced operation and control of active distribution networks: 2nd Edition

Monday 3rd – Thursday 6th June 2024, NTUA, HEDNO, Athens, Greece

Agenda

	Monday	Tuesday	Wednesday	Thursday
Topics	*Control & Ancillary Services of DERs*	*Digitalization of power systems*	*Industry Session with HEDNO*	*Efficient, flexible & resilient operation of power systems*
10:00-10:10	**Welcome and Introduction** Prof. Nikos Hatziargyriou (NTUA)	**Towards the digitalized centralized protection for modern power systems applying 5G** Prof. Mazaher Karimi (University of Vaasa)	**Visit to HEDNO SCADA DMS** **Visit to HEDNO Laboratories of Electricity Meters and Measurement Transformers** **Presentations of the HEDNO laboratories and telemetering sections** **Discussion with HEDNO Experts**	**Decentralized control and blockchain** Prof. Iasonas Kouveliotis-Lysikatos (University of Peloponnese)
10:10-10:45	**Microgrids as building blocks of smart grids** Prof. Nikos Hatziargyriou (NTUA)			
10:45-11:30	**Microgrid primary and secondary control** Dr. Dimitris Lagos (NTUA)	**Recent deep learning advances to energy forecasting** Dr. George Sideratos (NTUA)		**Leveraging flexibility in smart distribution networks** Dr. Angelina Syrri (NTUA)
11:30-11:45	Coffee Break	Coffee Break		Coffee Break
11:45-12:30	**Advanced ancillary services from PV& Storage Units** Dr. George Makrides (FOSS)	**Cybersecurity of active distributions networks** Prof. Charalambos Konstantinou (KAUST)		**Electric mobility and power systems** Dr. Ioannis Karakitsios (NTUA)
12:30-13:15	**Advanced laboratory testing of active distribution networks** Dr. Panos Kotsampopoulos & Alkistis Kontou (NTUA)	**Cybersecurity of load-frequency control of smart energy systems** Andrew D. Syrmakesis (NTUA)		**Power system resilience assessment and enhancement** Ektoras Stasinos (NTUA)
13:15-14:30	Lunch Break	Lunch Break		**Visit to Meltemi camp pilot site**
14:30-16:30	**Lab session:** **HIL Testing of industrial Power Plant Controller for RES applications** (PROTASIS S.A.)	**Lab session:** 1. **Cybersecurity of digital substations** Vetrivel S. Rajkumar (TUDelft) 2. **CHIL tests of inverter controls** (NTUA)		