

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	<i>Control & Ancillary Services of DERs</i>	<i>Digitalization of power systems</i>	<i>Industry Session with HEDNO</i>	<i>Efficient, flexible & resilient operation of power systems</i>
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	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)	Visit to HEDNO Laboratories of Electricity Meters and Measurement Transformers	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)		Presentations of the HEDNO laboratories and telemetering sections
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. Symakesis (NTUA)	Power system resilience assessment and enhancement Ektoras Stasinou (NTUA)	
13:15-14:30	Lunch Break	Lunch Break	Discussion with HEDNO Experts	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)		