

2019 LUCS PACE Summer School on Smart Cities for a Sustainable Energy Future - From Design to Practice

Week 1 (August 19-23, 2019)

Mon, Aug. 19	Tue, Aug. 20	Wed. Aug. 21	Thu. Aug. 22	Fri. Aug. 23
08:00-09:00 Registration and Coffee				
09:00-09:10 Formal opening and Welcome speech Prof. Olav Lysne Director, SimulaMet, Norway	09:00-10:30. Keynote Dr. Valerie Issarny INRIA, France <i>Mobile Phone Sensing for Contextualized Urban Public Policies</i>	09:00-10:30. Prof. Poul Einar Heegaard NTNU, Norway <i>Dependability in Interdependent System of Systems</i>	09:00-10:30. Richard Knoll Siemens, Berlin <i>eMobility as Part of the Energy System</i>	09:00-10:30. Keynote Prof. Dave Bakken Washington State University, USA <i>IoT Coordination, Energy and Smart Cities</i>
09:10-09:20 Welcome speech Prof. Sahin Albarayk TU Berlin, Germany				
09:20-10:00 <i>Course overview</i> Prof. Sabita Maharjan, SimulaMet, Norway				
10:00-10:15 Coffee break	10:30-10:45 Coffee break	10:30-10:45 Coffee break	10:30-10:45 Coffee break	10:30-10:45 Coffee break
10:15-12:00 Beate Lange City of Bremen <i>Smart City: A City Council Perspective</i>	10:45-12:00 Prof. Kai Strunz TU Berlin, Germany <i>Renewable Energy</i>	10:45-12:00 Dr. Jan Kesier TU Berlin, Germany <i>5G Tutorial</i>	10:45-12:00 Prof. Julia Kowal TU Berlin, Germany <i>Energy Storage Systems</i>	10:45-12:00 Dr. Alexander Scheilder Fraunhofer IEE, Germany <i>Power Flow Modeling</i>
12:00-13:00 LUNCH				
13:00-14:30 Christopher Wiig DNV-GL, Norway <i>Digitalization in the energy sector, and the introduction of distributed renewable energy</i>	13:00-14:30 Dr. Fikret Sivrikaya GT-ARC, Germany <i>Internet of Things</i>	13:00-14:30 Dr. Amir Safari Euro Energy Solutions AS, Norway <i>Future Smart Communities and Energy Management Systems</i>	13:00-14:30 Dr. Phu Nguyen SINTEF AS, Norway <i>For smart cities: Bridge the gap from design to operation of trustworthy Smart IoT systems</i>	13:00-15:00 Dr. Thomas Huhn Thüringer Netkom GmbH, Germany <i>An ISP Perspective on Decentralized Power Quality Monitoring Experiences in Low-Voltage Grids</i>
14:30-14:45 Coffee break	14:30-14:45 Coffee break	14:30-14:45 Coffee break	14:30-14:45 Coffee break	15:00-15:15 Coffee break
14:45-16:00 Francois Fouquet <i>DataThings</i> <i>Alva: A ML-powered operational platform for smart grids</i>	14:45-16:00 Dr. Fikret Sivrikaya GT-ARC, Germany <i>Internet of Things contd...</i>	14:45-17:00 Dr. Samek Wojciech Fraunhofer Heinrich Hertz Institute, Germany <i>Explainable Artificial Intelligence – Methods, Applications & Recent Developments</i>	14:45-16:15 Dr. Phu Nguyen SINTEF AS, Norway <i>ThingML and GeneSIS for programming and deploying smart IoT systems, with a focus on security and privacy</i>	15:30-17:00 Dr. Ozgu Alay SimulaMet, Norway <i>Communication and Energy Aspects of IoT communications</i>
	16:00-16:15 Coffee break			
	16:15-17:00 Paper presentation topics Prof. Sabita Maharjan & Prof. Frank Eliassen SimulaMet & University of Oslo, Norway			
			16:15-17:00 Students discuss and work on their presentation	

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Week 2 (August 26-30, 2019)

Mon, Aug. 26	Tue, Aug. 27	Wed. Aug. 28	Thu. Aug. 29	Fri. Aug. 30
09:00-12:00 Dr. Ajad Chhatkuli ETH Zurich, Switzerland, <i>Optimization in Computer Vision for Understanding Cities</i>	09:00-10:30 Prof. Roman Vitenberg University of Oslo, Norway <i>Blockchain Technology</i>	09:00-10:30. Simone Ferlin Ericsson, Sweden <i>Security and Privacy Concerns in the New End-to-End Encryption Internet Era</i>	Katrin Mueller Siemens Berlin <i>Sustainable Infrastructure Choices Meeting Greenhouse Gas Emissions</i>	09:00-10:30. Grete Coldevin, Norwegian Smart Grid Centre <i>A longer term perspective on digital energy / digital power</i>
10:30-10:45 Coffee	10:30-10:45 Coffee	10:30-10:45 Coffee break	10:30-10:45	10:30-10:45
10:45-12:00 Dr. Ajad Chhatkuli ETH Zurich, Switzerland, <i>Tutorial on Optimization: Assignment for the students</i>	10:45-12:00 Prof. Roman Vitenberg University of Oslo, Norway <i>Blockchain Technology, contd...</i>	10:45-12:00 Dr. Karsten Bsufka TU Berlin, Germany <i>Cyber Security</i>	10:45-12:00 Students work on their presentations either on a chosen topic or on their research	10:45-12:00 Poster presentations from host institutes and Testbed Demos (PowQuty, MONROE/RasNet, 5G & Autonomous driving)
12:00-13:00 LUNCH				
13:00-17:00 Dr. DP Paudel and Dr. Ajad Chhatkuli ETH Zurich, Switzerland, <i>Tutorial on Deep learning for ITS</i> (One coffee break) Assignment for the students	13:00-16:00 Prof. Roman Vitenberg and Mohammad Hossein Tabatabaei University of Oslo, Norway, <i>Blockchain Tutorial on Smart Contract</i> (with one coffee break)	13:00-17:00 Prof. Magne Jørgensen SimulaMet, Norway <i>What makes software development projects successful and what makes them fail?</i> (with one coffee break)	13:00-14:30. Prof. Mario Paolone EPFL, DESL, Switzerland <i>Planning and operation of distributed energy storage systems</i>	13:00-16:30. Paper/Research Presentations from students (One coffee break)
			14:30-14:45 Coffee break	
	14:45-16:15. Prof. Mario Paolone EPFL, DESL, Switzerland. <i>Real-time situational awareness of active distribution networks using PMUs</i>			
	16:00-17:00 Students' group formation + Discussion on Optimization + Deep Learning assignment		16:15-17:00 Dr. Anish Jindal Lancaster University, UK (Data analytical demand response management schemes in smart grid)	16:30-17:00 <i>Certificate distribution and official Closing</i>