





COST Action CA16235 PEARL PV

Performance and Reliability of Photovoltaic Systems: Evaluations of Large-Scale Monitoring Data

COST Action PEARL PV's Conference Enabling the PV Terawatt Transition

University of Twente, Enschede, The Netherlands 14 – 16 March 2022

Tentative Program – to be regularly updated

Day 1: 14	March 2022			
9:00 -	9:00 - Plenary session			
12:30h				
	9:00h Opening ceremony with Ms. Gordana Kregar, COST Association, Brussels, Belgium Prof. dr. Angèle Reinders, University of Twente, Eindhoven University of Technology, the Netherlands Prof. dr. Wilfried van Sark, Utrecht University, the Netherlands Dr. David Moser, EURAC, Italy 9:30h Plenary Speaker 1: Dr. Teresa Barnes, NREL, Denver, USA Title: Predicting and Extending PV Module Lifetime 10:00h Plenary Speaker 2: Prof. dr. Monica Lira-Cantu, Catalan Institute of Nanoscience and Nanotechnology ICN2, Barcelona, Spain Title: Perovskite Solar Cell Stability			
10:30h Coffee & tea break				
	 11:00h Plenary Speaker 3: Prof. dr. Christophe Ballif, Ecole Polytechnique Fédérale de Lausanne (EPFL) and CSEM, Neuchâtel, Switzerland Title: Photovoltaics go fast: improved technologies and carbon footprint for a wider range of applications 11:30h Plenary Speaker 4: Prof. dr. Jan Kleissl, University of California, San Diego, USA Title: Solar Forecasting 			
	12:00h Q&A and panel discussion			
12:30 -	Lunch Break			
14:00h				
14:00 -	Session 1: PV in Grids	Session 2: PV Monitoring		
17:30h	14:00 Opening by Jonathan Leloux,	14:00h Opening by Wilfried van Sark, Utrecht		
	LuciSun, Brussels, Belgium	University, the Netherlands		
	14:05 Rodrigo Silva e Amaro (Mines	14:05h Anne Gerd Imenes (University of		
	ParisTech, France) Title: Solar variability: a spatio-temporal phenomenon	Agder, Kristiansand, Norway) Title: Keynote tbc		
	14:30 Eduardo Fernandez (University of	14:35h Maria Hadjipanayi (University of		
	Jaén, Spain) Title: Advances in Photovoltaic	Cyprus, Nicosia, Cyprus) Title: PV monitoring		







IN SCIENCE	& TECHNOLOGY			
	Technology: current activities and future actions			
	15:00 Ibrahim el Boujdaini (LuciSun, Belgium) Title: Analysis of the state of the art and performance of more than one decade of residential PV in Brussels (11.000+ PV installations)	15:05h Paolo Graniero (Helmholtz-Zentrum Berlin, Berlin, Germany) Title: Comparison of unsupervised algorithms for PV fault detection, and data sources for power nowcasting		
	15:30 Refreshments	15:30h Refreshments		
	16:00 Leonardo Micheli (*) Title: Advances and perspectives in agrivoltaic applications in Europe	16:00h Bogdan Burduhos (Transilvania University of Brasov, Brasov, Romania) Title: PV monitoring small systems		
	16:30 Grazia Barchi (EURAC, Italy) Title: Assessment and countermeasures of the PV systems integration in distribution power grids	16:20h Bhavya Kausika (Cadastre NL, Zwolle, the Netherlands) Title: GeoAl for detection of Solar Photovoltaic installations in the Netherlands		
	17:30 Emilio Muñoz (University of Jaén, Spain) Title: Photovoltaic engineering applications: alternatives to standard designs	16:40h Ben Laevens (Statistics Netherlands, The Hague, the Netherlands) Title: An Observational method for determining daily and regional photovoltaic solar energy statistics		
		17:00h Lennard Visser (Utrecht University, Utrecht, the Netherlands) Title: Operational day-ahead solar power forecasting for aggregated PV systems with a varying spatial distribution		
		17:20h Closing remarks by Wilfried van Sark, Utrecht University, the Netherlands		
17:30 – 19:00h	Break			
19:00 –	Evening Program with Group Dinner			
22:00h Day 2: 15 March 2022				
9:00 - 12:30h	Session 3: Reliability and Durability of PV	Session 4: PV Simulation of PV of PV of PV		
	9:00h Opening by Jeff Kettle, University of Glasgow, United Kingdom	9:00h Opening by Nicola Pearsall, Northumbria University, United Kingdom		
	9:10h Gernot Oreski (PCCL, Austria) Title: Future challenges for PV module reliability	9:15h TBC Title: PVGIS Update		
	9:40h TBC (*) Title: TBC	9:40h Bruno Wittmer (PVSyst) Title: PVSyst development		
	10:05 Mirjam Theelen (TNO, Eindhoven, the Netherlands) Title: PID reliability challenges in CIGS modules	10:05h Anja Neubert (DNVGL) Title: SolarFarmer approach		







IN SCIENCE	& TECHNOLOGY			
	10:30h Coffee & tea break	10:30h Coffee & tea break		
	11:20h Hugo Quest (Ecole Polytechnique Fédérale de Lausanne (EPFL), Neuchâtel, Switzerland) Title: Solar irradiance classification for improved PV performance assessments	11:00h TBC (*) Title: TBC		
	11:40h Atse Louwen (EURAC, Bolsano, Italy) Collaborative development and comparison of fault detection algorithms using the PearlPV CKAN database	11:40h Jesus Robledo Bueno (LuciSun, Brussels, Belgium) Title: Simulating complex systems		
	12:00h Reza Aghaei (NTNU, Norway) Title: Al technology for PV condition monitoring	12:20h Discussion and closing remarks by Nicola Pearsall, Northumbria University, United Kingdom		
12:30 -	Lunch Break			
14:00h				
14:00 -	Session 5: PV in the built	Workshop: PV Data Challenge		
17:00h	environment			
	Programme to be announced soon	Programme to be announced soon		
17:00 –	Break			
17:15h				
17:15 –	Plenary Session			
18:15h	Wron up and clasure of the conference by			
	Wrap up and closure of the conference by Prof. dr. Wilfried van Sark, Utrecht University, the Netherlands			
	Dr. David Moser, EURAC, Italy			
	Prof. dr. Angèle Reinders, University of Twente, TU/e, the Netherlands			
18:15 –	Break			
19:00h				
19:00 –	Evening Program with Group Dinner			
22:00h				
Day 3: 16 March 2022				
9:00 -	Excursion with drop-off at airport Schiphol, Amsterdam			