





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 - 12:20h	Plenary session 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), Neuchâtel, Switzerland 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		
12:30h			
12:30 -	Lunch Break		
14:00h			
14:00 - 17:30h	Session 1: PV in Grids 14:00 Opening by Jonathan Leloux, LuciSun, Brussels, Belgium	Session 2: PV Monitoring 14:00h Openingby Wilfried van Sark, Utrecht University, the Netherlands	
	14:05 Rodrigo Silva e Amaro (Mines ParisTech, France) Title: Novel forecasting method applied to PV	14:05h Anne Gerd Imenes (University of Agder, Kristiansand, Norway) Title: Keynote tbc	
	14:30 Eduardo Fernandez (University of Jaén, Spain) Title: Advances in Photovoltaic Technology: current activities and future actions	14:35h Maria Hadjipanayi (University of Cyprus, Nicosia, Cyprus) Title: PV monitoring	

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	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 epplications: 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 – 22:00h	Evening Program	n with Group Dinner

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
	10:30h Coffee & tea break	10:30h Coffee & tea break

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	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 PearIPV 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 - 14:00h	Lunch Break		
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			
	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	