Summer School

September 14th – 15th 2023
Location: DLR Casino

Thursday, September 14th

8:30 – 9:00	***Registration***
	at the entrance to DLR Casino
9:00 – 9:05	***Opening and Welcome***
9:05 – 9:45	**Introduction to Smart CSP**
	Daniel Maldonado Quinto, DLR
9:45 – 10:25	**Meteorological forecast + Simulation pipeline tool for a more efficient management of solar thermal power plants**
	Prof. Eduardo Zarza, CIEMAT
10:25 – 10:55	***Coffee Break***
10:55 – 11:35	**Data Clustering and Genetic Algorithm for the Design Optimization of a Hybrid Concentrated Solar System for SHIP**
	Valéry Vuillerme, CEA
11:35 – 12:15	**Condition monitoring in solar process heat applications**
	Hannes Laget, Azteq
12:15 – 13:45	***Lunch***
13:45 – 14:25	**Towards a fully automated flux density prediction using data driven models**
	Max Pargmann, DLR
14:25 – 15:05	**Model predictive control for molten salt solar tower receivers**
	Rudolf Popp, IRT, RWTH
15:05 – 15:35	***Coffee Break***
15:35 – 16:15	**Application of AI methods for operation and maintenance improvements in CSP power plants**
	Thomas Kraft, ISE

* This project has received funding from the European Union's Horizon2020 Research and Innovation programme under the grant agreement n°823802

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9:00 – 9:40	**Optimization and automation of the operational strategy of a CSP reactor for thermochemical hydrogen generation** Jörg Lampe, RFH
9:40 – 10:20	**Development of an automation software for the control and operation of a solar refinery with redox reactors** Remo Schäppi, ETH
10:20 – 10:50	***Coffee Break***
10:50 – 11:30	**5G and IOT Platform for CSP plants** Inga Miadowicz, DLR
11:30 – 12:10	**The role of Business Models in helping solar technologies succeed** Pinar Derin, METU
12:10 – 12:20	***Closing Remarks***
12:20 – 13:00	***Coffee Break***
13:00 – 14:30	**Technical Visit Cologne** Possibility to visit different experimental setups at DLR Cologne

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