

Call for Abstracts for the 2023 European PVPMC Workshop

8-9 November 2023, Mendrisio, Switzerland

Co-organised by Sandia National Laboratories, SUPSI PVLab and with the contribution of IEA PVPS TASK 13 and TASK 15, this two-day workshop scheduled for November 8th and 9th in Mendrisio, Switzerland, will examine the technical challenges and opportunities related to PV performance modelling and the digitalisation of the PV sector, with a specific focus on ground mounted and building integrated photovoltaic (BIPV) systems, but without excluding other system types.

This year workshop aims to bring together researchers and operators working on all aspects of PV performance modelling including focus sessions on digitalisation and digital twins (DT). DTs are digitalized representations or models of real systems that include simulated performance. Participants will share their experience and discuss the challenges related to the introduction of DT into the PV sector. An exchange with stakeholders from the building sector is envisaged to identify synergies and needs in the field of DT development.

We are soliciting presentation proposals from the PV community and from any expert dealing with PV performance modelling and DT. If you have approaches, new data, or other interesting results, please consider submitting a short abstract to present at the workshop. The following is a non-exhaustive list of possible topics. The sessions of the workshop will be defined in dependence of the received abstracts.

- Solar resource and site assessment
- Modelling tool updates
- Designing DT of a PV system, including 3D modelling of system
- Models or DT supporting construction/commissioning/decommissioning of PV systems
- Yield simulations of real systems based on a DT
- Data analytics for differentiating individual performance losses and failures
- Tracking performance changes over PV system lifetime
- Standardization of PV component metadata
- Data standards and availability for PV systems
- Challenges of DTs in the PV sector
- Synergies between the PV and building sectors

Please send short abstracts that include **title**, **author list**, **organization name**, and a **brief technical description** (300 word maximum with one optional figure) to Joshua Stein (jsstein@sandia.gov).

Deadline for Abstracts (August 25, 2023)

Program information, agenda, logistical information and the registration link will be forthcoming.

Thank you and we look forward to seeing you in Mendrisio at the Campus of the University of Applied Sciences and Arts of Southern Switzerland!