

Save the Date · Oldenburg, Germany · October 5–7, 2026

2nd International All-Sky Imager Workshop 2026

Solar Forecasting · AI · Hardware · Community

About the Workshop

Following the successful inaugural edition in Rosenheim, the **2nd International All-Sky-Imager-Workshop** brings together researchers, engineers, and practitioners from around the world to advance ground-based sky imaging. Whether your focus is ASI hardware, data processing, solar irradiance forecasting, or AI-driven applications - this is your community.

Hosted at the DLR Institute of Networked Energy Systems in Oldenburg, the 2026 edition fosters exchange between research institutions, universities and industry across renewable energy, meteorology, and energy meteorology.

The program is designed not only to share results, but to spark new collaborations!

Preliminary Programme

Monday, Oct 5 · afternoon

Hardware & Community

14:00 – 14:15	Welcome and Introduction	Organizer
14:15 – 14:35	The All-Sky Camera Network of the University of Valladolid	Roberto Roman
14:35 – 14:55	Development of a Low-Cost, Open-Source All-Sky Imager for Solar Resource Assessment	Valentin Bauer
14:55 - 15:15	Assessing Ground Albedo in PV-Plants via Fisheye-Camera and Satellite Images	Niklas Blum
15:15 - 15:45	Coffee Break	
15:45 - 16:15	MeteoClean: Automated Self-Cleaning System for All-Sky Imagers and Pyranometers	Andreas Boschert
16:15 - 16:35	All-Sky Cameras in Astronomy	Björn Poppe
16:35 - 16:55	The Evolution of the AllSkyKamera Network - From a Camera Network to AllSkyKamera EDU	Stefan Gotthold
16:55 - 17:10	Coffee Break	

17:10 – 17:25	Exhibitor's Short Presentations	
17:25 - 17:35	Introduction Best ASI Image Award	Organizer
17:35 - 17:40	Closing remarks of Day I	Organizer
17:40	Get-together	

Tuesday, Oct 6 · full day

Forecasting, AI & Applications

08:30 – 08:50	HELIOS-AI: Solar irradiance forecasts using All-Sky Imager	Andreas Boschert
08:50 - 09:10	Autonomous sky camera systems for solar energy meteorology	Paul Matteschk
09:10 - 09:30	Benchmarking Accuracy and Variability in Intra-Hour Solar Irradiance Forecasts from Satellites and Ground Observations	Thomas Schmidt
09:30 – 10:00	Coffee Break	
10:00 – 10:20	Development of an Attention-Based ResUNet Framework for Robust Cloud Segmentation in All-Sky Imagery	Bildad Astegha
10:20 - 10:40	Task-aware Latent-Space Coupling for Generative Solar Forecasting	Nouri, Fabel
10:40 - 11:00	Nowcasting	Max Aragon
11:00 – 11:20	Coffee Break	
11:20 - 12:00	Keograms for Solar Energy Applications	Annette Hammer, Mike Zehner
12:00 - 13:30	Lunch Break	
13:30 – 15:00	World Café	Organizer

15:00 – 15:15	Coffee Break	
15:15 – 16:00	The Eye2Sky Network	Thomas Schmidt
16:00 – 16:45	Visit of the Eye2Sky Reference Station	Jonas Stührenberg
16:45 – 17:00	Ceremony Best ASI Image Award	Organizer
18:00	Workshop Dinner	

Wednesday, Oct 7 · morning

Outlook & Collaboration

08:30 – 10:00	Opening up the All-Sky Imager: Hands-on Hardware, Software and Data	Valentin Bauer
10:00 – 10:30	Coffee Break	
10:30 – 10:50	Semantic Cloud Segmentation for All Sky Images using Deep Learning and LWIR Data	Eduardo Saez
10:50 – 11:10	Retrieval of aerosol properties with All-Sky cameras	Roberto Roman (online)
11:10 – 12:00	Closing Remarks and Outlook	Organizer

Interactive Highlights

Best ASI Image Award

Submit your most impressive all-sky image ahead of the workshop. Shortlisted entries will be presented live, with the winner selected by audience vote.

Collaboration board

"I am looking for / I am offering" — a structured board to match dataset needs, project ideas, and technical expertise across participants.

Live audience tools

Interactive polls and real-time feedback sessions throughout the program to keep discussions dynamic and inclusive.

Hardware exhibition

Dedicated exhibition space for ASI systems and related instruments. Exhibitors are invited to register in advance.

Information

VENUE

DLR Institute of Networked Energy Systems

Carl-von-Ossietzky-Str. 15
26129 Oldenburg, Germany

Travel information and parking:
see venue [website](#).

REGISTRATION & COSTS

No registration fee

The workshop is free of charge, supported by TH Rosenheim and the DLR Institute of Networked Energy Systems.

Travel, accommodation, and meals are at participants' own expense. Lunch is provided on campus; joint dinners at local restaurants are organized.

Recommended Accommodation

B&B Hotel Oldenburg

Alexanderstr. 1-5
26121 Oldenburg
www.hotel-bb.com

Acara Hotel Oldenburg

Am Stadtmuseum 12
26121 Oldenburg
www.acara-hotel.de

Hermes Hotel Oldenburg

Ankerstr. 19 26122 Oldenburg
www.hermes-hotel-oldenburg.de

Aspire Oldenburg

Europaplatz 4 - 6
26123 Oldenburg
www.aspire-hotels.com

DJH Jugendherberge Oldenburg

Straßburger Str. 6
26123 Oldenburg
www.oldenburg.jugendherberge.de

Hotel Wieting

Damm 29
26135 Oldenburg
www.hotel-wieting.de

Altera Hotel

Herbartgang 23
26122 Oldenburg
www.altera-hotels.de

We look forward to welcoming you to Oldenburg !