Universität Stuttgart

Preliminary Programme

Advancement in Photogrammetry, Remote Sensing and Geoinformatics

60th Photogrammetric Week

phowo.ifp.uni-stuttgart.de

Tuesday, April 6, 2027

from 8:00	Registration of participants
8:45	**Opening of the 60th Photogrammetric Week**
	Welcome addresses
	1st Topic: "Sensors, mapping"
9:00	**Cheng Wang, Xiamen University, China** Deep localization with LiDAR, camera and 4DMMW sensors
9:45	**Stefan Leutenegger, ETH Zurich, Switzerland** Multi-sensor Spatial AI for mobile robots and robot learning
10:15	**Aamir Ahmad, University of Stuttgart, Germany** Sensing biodiversity through active aerial perception
10:45	Coffee Break
11:15	**Michael Schmitt, University of the Bundeswehr Munich, Germany** New space in earth observation
11:45	**Klaus Legat, AVT, Imst, Austria** Special imaging sensors and their applications in aerial surveys
12:15	**Vexcel Imaging, NN** Short presentation
12:30	**IGI, NN** Short presentation
12:45	**Announcements**
	Lunch Break
14:30 - 17:00	**Demonstrations** in groups according to separate schedule (in E) • **Demo A - Vexcel Imaging** • **Demo B - IGI / PhaseOne**
17:15 - 19:00	**Ice Breaker Party**

Wednesday, April 7, 2027

2nd Topic: "Photogrammetry, machine learning"

8:45	**Friedrich Fraundorfer, TU Graz, Austria** Advancing beyond traditional methods for 3D reconstruction using machine learning
9:30	**Norbert Haala, University of Stuttgart, Germany** 3D Gaussian Splats - a new standard product of photogrammetric evaluation?
10:00	**Boris Jutzi, Karlsruhe Institute of Technology, Germany** Neural Photogrammetry
10:30	Coffee Break
11:00	**Andreas Nüchter, University of Würzburg, Germany** Underwater and mixed-media scanning - precise 3D scanning and photogrammetry underwater and from air into water
11:30	**Stephan Nebiker, University of Applied Sciences and Arts Northwestern Switzerland** Vision-based 3D Mobile Mapping - trends and applications beyond simple streetlevel imagery
12:00	**Esri, NN** Short presentation
12:15	**Leica Geosystems part of Hexagon** Short presentation **The Carl Pulfrich Award 2025 Ceremony** • Klaus Neumann, Leica Geosystems, Heerbrugg, Switzerland: Introduction • The Carl Pulfrich Awardee
12:45	**Announcements**
	Lunch Break
14:30 - 17:00	**Demonstrations** in groups according to separate schedule (in E) • **Demo C - Leica Geosystems** • **Demo D - Esri**

Thursday, April 8, 2027

3rd Topic: "Artificial intellicence, Foundation models"

8:45 **Xiaoxiang Zhu, TU Munich, Germany**
Foundation models in photogrammetry and remote sensing

9:30 **Ksenia Bittner, DLR Munich, Germany**
Artificial Intelligence for 3D building modeling

10:00 **Ribana Roscher, University of Bonn, Germany**
Seeing, understanding, creating: how machine learning advances digital agriculture

10:30 Coffee Break

11:00 **Wolfgang Wagner, TU Vienna, Austria**
Smarter than physics? AI in microwave remote sensing

11:30 **Panel Discussion**

12:00 **Trimble, NN**
Short presentation

12:15 **Riegl, NN**
Short presentation

12:30 **Announcements**

Lunch Break

14:30 - 17:00 **Demonstrations**
in groups according to separate schedule (in E)

Demo E - Trimble

Demo F - Riegl

Evening: **Get-Together Night at Kursaal in Bad Cannstatt**

18:30 Get-Together Night and PhoWo Dinner Party at Bad Cannstatt

End at about 22:00

Friday, April 9, 2027

4th Topic: "Mapping, BIM, 4D point cloud, agriculture and forest"

8:45 **Clement Mallet, IGN, France**
AI-based land-cover mapping is solved: what's next?

9:30 **Jan Boehm, University College London, UK**
tbd

10:00 **Katharina Anders, TU Munich, Germany**
Multimodal 4D point clouds for earth surface dynamics observation

10:30 Coffee Break

11:00 **Dorota Iwaszczuk: TU Darmstadt, Germany**
Seeing the trees and the forest: mapping vegetation condition across scales

11:30 **Georg Bareth, University of Cologne, Germany**
Combining structural and spectral traits for crop monitoring

12:00 Closing Session

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esri
THE SCIENCE OF WHERE

IGI

HEXAGON | Leica GEOSYSTEMS

PHASEONE

RIEGL

Trimble

VEXCEL IMAGING

geomatics
an Open Access Journal by MDP

isprs International Journal of Geo-Information
an Open Access Journal

remote sensing
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