



**ISPRS  
GEOSPATIAL  
WEEK 2023**



**Arab Academy  
for Science, Technology  
& Maritime Transport**

**The ISPRS 2023 Geospatial Week  
(Egypt GSW'2023)**

**Remote Sensing For Better Future**

**Cairo, Egypt, September 2-7, 2023**



**ISPRS GSW2023 Best Workshop Paper Award**

<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Workshop</b>
562	LSTM-MLP Based Uncertainty Modelling Approach for Complex Human Indoor Trajectory	Yue Yu, Wenzhong Shi, Zhewei Liu, Kexin Tang, Liang Chen, Ruizhi Chen	ISSDQ 2023 Workshop
617	Deep learning for Object Detection using RADAR Data	Ahmed M. Reda, Naser El-Sheimy, Adel Moussa	Navigation, Guidance and Control of Autonomous Vehicles Workshop
810	LiDAR SLAM-Aided Vehicular Navigation System for GNSS-Denied Environments	Nader Abdelaziz, Ahmed El-Rabbany	Navigation, Guidance and Control of Autonomous Vehicles Workshop
498	PDCA-FORMER: Prior-Diagonal Cross Attention-Guided Transformer for Flood Mapping from SAR Imagery: A Case in Khartoum	Tamer Saleh, Mohamed Zahran, Shima Holail, Gui-Song Xia	SARcon 2023 Workshop
836	SCP: Scene completion pre-training for 3D object detection	Yiming Shan, Yan Xia, Yuhong Chen, Daniel Cremers	3DS Workshop
506	Efficient UAV Flight Planning for LOD2 City Model Improvement	Yu-Lun Wu, Bashar Alsadik, Sander Oude Elberink, George Vosselman	UAV-based mapping Workshop
596	User Implementation and Assessment of BDS-3 Precise Point Positioning Augmentation Service with No Economic Cost	Chenhao Ouyang, Junbo Shi, Wenjie Peng, Xinying Dong, Jiming Guo, Yibin Yao	Precision GNSS Workshop
150	The Toa Estimation of Cellular Network Signals Based on Machine Learning in Complex Urban Environments	Zhaoliang Liu, Liang Chen, Zhenhang Jiao, Xiangcheng Lu, Yanlin Ruan	Precision GNSS Workshop

173	Towards accurate instance segmentation in large-scale LiDAR point clouds	Binbin Xiang, Torben Peters, Theodora Kontogianni, Frawa Vetterli, Stefano Puliti, Rasmus Astrup, Konrad Schindler	Laser Scanning Workshop
591	Research on Efficient Indexing of Large-Scale Geospatial Data Based on Multi-Level Geographic Grid	Yin Gao, Hairui Duo, Jian Che, Shiquan Zhao, Bianli Zhao	ADP Workshop
184	Transformer Models for Multi-Temporal Land Cover Classification using Remote Sensing Images	Mirjana Voelsen, Simon Lauble, Franz Rottensteiner, Christian Heipke	Semantic 3D Workshop
316	SPARSESAT-NERF: Dense Depth Supervised Neural Radiance Fields for Sparse Satellite Images	Lulin Zhang, Ewelina Rupnik	PhotoGA 2023 Workshop
340	Suitability Assessment of Different Sensors to Detect Hidden Installations for As-built BIM	Julius Knechtel, Jan Behmann, Jan-Henrik Haurert, Youness Dehbi	Digital Construction: BIM application Workshop
195	A Classification Model for The Inference of Spatial Precision of OpenStreetMap Buildings with Intrinsic Indicators	Ibrahim Maidaneh Abdi, Arnaud Le Guilcher, Ana Maria Olteanu Raimond	Crowdsourcing Workshop
235	Extraction of Paint Loss in Ancient Murals Based on 3D Residual Neural Network	Shuyang Li, Miaole Hou, Penghui Cao, Shuqiang Lyu	Cultural Heritage Workshop
495	Enhancing Pedestrian Target Recognition in Open Community Multi-Scene Spaces using The YOLO-STP Network	Chun Liu, Yanyi Li, Jiajing Gu, Yongqi Lou, Tao Shen	GeoHB 2023 Workshop
538	Landscape Impact Assessment of SDG2 Development Projects using Remote Sensing and Unsupervised Control Site Selection	Hannah Kemper, Theo Renouard, Sarah Muir, Rogerio Bonifacio, Pini Giancarlo, Paolo Lucchino, Lorenzo Bosi	GI4SDGS Workshop
204	Needle in A Haystack: Feasibility of Identifying Small Safety Assets from Point Clouds Using Deep Learning	Geethanjali Anjanappa, Shayan Nikoohemat, Sander Oude Elberink, Robert Voute, Ville Lehtola	Indoor 3D Workshop

185	PMLIO: Panoramic Tightly-Coupled Multi-LiDAR-Inertial Odometry and Mapping	Yuhang Xu, Chi Chen, Zhiye Wang, Bisheng Yang, Weitong Wu, Liuchun Li, Jiayu Wu, LeYi Zhao	Robotics for Mapping Workshop
441	Unsupervised Statistical Approach for Tree-Level Separation of Foliage and Non-Leaf Components from Point Clouds	Anna Shcherbacheva, Mariana B. Campos, Xinlian Liang, Eetu Puttonen, Yunsheng Wang	Smart Forests: Systems and methods at different scales Workshop
806	Forest Feature LiDAR SLAM (F2-LSLAM) and Integrated Scan Simultaneous Trajectory Enhancement and Mapping (Is2-Team) for Accurate Forest Inventory using Backpack Systems	Tian Zhou, Raja Manish, Songlin Fei, Ayman Habib	Smart Forests: Close range sensing Workshop
653	Investigation of The Challenges of Underwater-Visual-Monocular-SLAM	Michele Grimaldi, David Nakath, Mengkun She, Kevin Köser	Underwater Mapping Workshop