LSGI RESEARCH SEMINAR

Semantic Urban Modeling for Digital Twins

6 DEC 2024 (FRI)
10:00 - 11:00 AM
HJ305, POLYU
ENGLISH

Prof. Bisheng YANG

Professor in Geomatics Engineering
Director of LIESMARS, Wuhan University, PR China

ABSTRACT

Spatio-temporal information and positioning navigation services have become important new infrastructure. Fully exploring the potential of AI and achieving the transformation from AI to IA (Intelligent Action) is a significant demand for high-quality endowment of Spatio-temporal information and digital twin. The reality data capture technology provides core support for precise digitalization of physical space, creating digital spatial scenes. The four core technologies of location, semantic data, object extraction, and structural representation are important ways to achieve digital scenes to digital twin, and will be presented.

BIOGRAPHY

Prof. Bisheng Yang is a full Professor in GeoInformatics at Wuhan University, China, and director of State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS). He obtained his Ph.D degree in Photogrammetry and Remote Sensing in 2002 from Wuhan University. He holds Distinguished Young Scholars Professor. His research expertise include Lidar and UAV Photogrammetry, point cloud processing, and spatial intelligence. Dr. Yang has so far published more than 100 papers in peer-review journal articles, conference and workshop proceedings. He is Co-Chair of Point Cloud Processing Workgroup in Photogrammetry Commission of the International Society for Photogrammetry and Remote Sensing (ISPRS) from 2016-2026. He is Associate Editor of ISPRS Journal of Photogrammetry and Remote Sensing, and the recipient of a lot of national and international academic awards including Carl Pulfrich Award (2019).

Moderator: Prof. Wu CHEN, LSGI

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Enquiry: Mr Jimmy Kwan | Tel: (852) 2766 4350 |
Email: jimmy.lh.kwan@polyu.edu.hk

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