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香港大學建造及基建創新研究中心
CENTRE FOR INNOVATION IN CONSTRUCTION AND
INFRASTRUCTURE DEVELOPMENT



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Modular Integrated Construction
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Jointly organized by
Department of Civil Engineering, CICID and MiCLab, HKU

SJTU BIM Research Center: From Foundational Data to Collaborative Platforms – Research and Practice

Associate Prof. Deng Xueyuan
BIM Research Center, Shanghai Jiao Tong University, China

Date: 17 July 2026 (Friday)

Time: 11:00 a.m. – 12:00 n.n.

Venue: Room 612B, 6/F Haking Wong Building, The University of Hong Kong

Abstract:

Over the past two decades, BIM technology has achieved notable progress, driven by a range of specialized modeling software. However, what merits deeper reflection are the valuable experience and lessons learned through the setbacks along the way. To overcome the industry's current impasse, it is key to conduct a thorough synthesis of these gains and losses, so as to explore an independent technical route that aligns with the needs of digital transformation of China's construction industry. Against this background, this seminar will elaborate on our re-examination of these issues at the BIM Research Center of Shanghai Jiao Tong University (SJTU). It will share our research orientation, key pathways to overcoming technological barriers, and core innovative fruits since the Center's establishment in 2015. In particular, the seminar will highlight the comprehensive picture we achieved through integrated research and practice from foundational data governance to higher-level collaborative platforms, always with an unwavering commitment to the IFC international standard. The seminar will also present our latest progress on the AI-based automatic generation of 3D rebar models from CAD drawings, based on the Chinese standard detailing method (Pingfa).

About the Speaker

Dr. Deng Xueyuan is the Director of the BIM Research Center at Shanghai Jiao Tong University, where he also serves as an Associate Professor and Doctoral Advisor. He received his Bachelor's and Master's degrees from Xi'an Jiaotong University, and his Ph.D. degree from Nanyang Technological University, Singapore. He holds several professional appointments, including serving as a member of the Information Technology Working Committee of the China Engineering & Consulting Association, a member of the BIM Committee of the China Graphics Society, and Vice Chairman of the Computer Application Committee of the Shanghai Society of Civil Engineering. His research mainly focuses on multi-disciplinary BIM collaborative solutions based on the IFC standard. He has pioneered research in data standards, data sharing and exchange, and key technologies for BIM-based collaborative platforms. He has led the research and development of the NMCAD and NMBIM software series, which have been applied in major design institutes such as Shanghai Xiandai Architectural Design Group, Shanghai Nuclear Engineering Research & Design Institute, and Shanghai Urban Construction Design & Research Institute.

- ALL ARE WELCOME -