

# GUEST LECTURE

PROF. JACK C.P. CHENG

*Smart Construction and Digital City Leveraging  
Digital Twin, AI, and Robotics/Drones*

Tuesday, 22 July 2025



## SPEAKER

Prof. Jack C.P. Cheng is a leading expert in digital construction and smart cities. He holds a PhD in Civil and Environmental Engineering from Stanford University and serves as a Professor at the Hong Kong University of Science and Technology (HKUST), as the Director of the BIM Lab, and as the Associate Director of the GREAT Smart Cities Institute, bridging cutting-edge research with real-world innovation, resulting in over 18,000 citations.

## DETAILS

**Time:** 9:00 a.m.

**Duration:** 60 to 90 minutes

**Room:** IC 03/610

**Zoom-Link:** <https://ruhr-uni-bochum.zoom-x.de/s/67300746668>

## CONTENTS

In his lecture titled “Smart Construction and Digital City Leveraging Digital Twin, AI, and Robotics/Drones”, Prof. Cheng will present state-of-the-art developments in the integration of Digital Twins, Artificial Intelligence (AI), and robotic systems, including drones, into construction and urban environments. His talk will explore how these technologies are reshaping the future of construction management and enabling more intelligent, efficient, and sustainable cities.



SFB 1683  
**Modular Reuse**

Foto: © HKUST

Gefördert durch



Deutsche  
Forschungsgemeinschaft