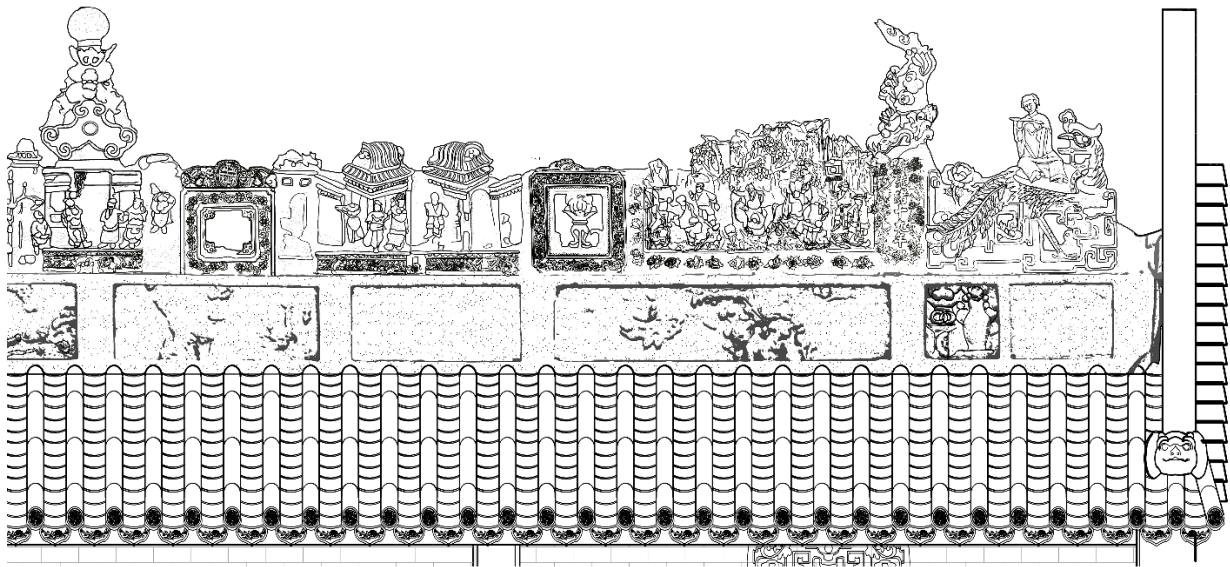


3D SCANNING: FROM MICRO TO MACRO

3D 掃描：從微觀到宏觀



Credits: Mr. Louis Li

- Date:** 30 September 2026 (Wednesday)
- Time:** 19:00 to 20:30
- Speaker:** Mr. Louis Li (Product Manager of Sigma Mascot (HK) Ltd)
- Venue:** Online via Zoom
- CPD Points:** 1.5 CPD credit hours
- Language:** Cantonese, supplemented with English presentation materials
- Fee:** Free admissions for HKICON Members (Professional, Corporate, Associate, Retired, Student Members), HKICON Friends and Non-members.
Please visit the HKICON website for registration:
<https://member.hkicon.org/events/20260930>

About the CPD

Digital documentation and digital twin technologies are becoming increasingly important trends in the heritage sector, offering new ways to record, analyse, interpret, and manage historic buildings and cultural landscapes. As 3D scanning tools become more accessible and widely adopted, conservation practitioners are increasingly exploring how point cloud data can support heritage documentation, condition assessment, conservation planning, interpretation, and long-term asset management.

This talk will introduce the application of terrestrial laser scanning in architectural conservation, with a focus on how scanned data is captured, processed, managed, and translated into useful conservation outputs. The session will cover practical workflows for handling point cloud data, including data cleaning, registration, modelling, visualisation, and preparation for drawings, analysis, and presentation. Through a range of local case studies, the talk will demonstrate how 3D scanning can be applied at different scales, from detailed building elements and construction features to entire historic sites and landscape settings. The presentation will also showcase fly-through videos and other visual outputs, illustrating how digital survey data can enhance communication with project teams, stakeholders, students, and the wider public. By examining both technical processes and real project applications, this talk aims to provide participants with a practical understanding of how 3D scanning contributes to heritage conservation today, and how digital twin and digital documentation approaches may shape the future of conservation practice.

About the Speaker

Mr. Louis Li

Mr. Louis Li is the Product Manager of Sigma Mascot (HK) Ltd. He has over decade of experience in 3D laser scanning surveys, contributing to numerous projects with a strong focus on converting data into accurate digital results.

Sigma Mascot (HK) Ltd. was established in 2008 as one of Hong Kong's earliest services & system providers in 3D laser scanning, geospatial systems and BIM services. It provides comprehensive scanning solutions to meet a wide range of client needs, from civil and structural engineering to construction, architecture, and the preservation of antiquities and monuments.
