

Data-Driven Conservation and Sustainable Development



On October 28, 2025, Prof. Yang Chen, Associate Professor at Tongji University, delivered a seminar on “Data-Driven Cultural Heritage Conservation and Sustainable Development”. Prof. Yang traced the evolution of heritage conservation over the past three decades into a discipline that engaged with social and cultural concerns alongside technical ones.

Prof. Yang presented the work of the Tongji University Scenic Heritage and Cultural Landscape Conservation Innovation Team, which had been developing experimental digital heritage projects since 2010. The team focuses on building theoretical frameworks and technical systems for digital conservation that connect natural and cultural heritage, as well as tangible and intangible dimensions of heritage. Through case studies, Prof. Yang demonstrated how technology could document the interaction between humans and nature, and reflected on the particular characteristics and challenges of cultural heritage in the Asia-Pacific region.