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- ABSTRACT**
- PRESENTATION**
- PAPER**

Hai Zhang is a full professor at Harbin Institute of Technology in China and an adjunct professor at the Laval University in Canada. His research interest includes infrared thermography, 3D photothermal coherent tomography, NDT for industrial inspection and cultural heritage, and medical imaging. He is also the editor of 'Infrared Physics & Technology', 'Measurement', 'QIRT Journal', 'Russian Journal of NDT', etc.

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FUSION OF INFRARED AND TERAHERTZ IMAGING FOR NON-INVASIVE INSPECTION OF MARQUETTERIES COUPLED WITH FINITE ELEMENT ANALYSES

In this study, IR and THz imaging were used for non-destructive testing of marqueteries, comparing two methods and their efficacy. A finite element simulation corroborated

the results, guiding experimental conditions. An innovative fusion imaging approach was then employed to detect defects, advancing NDT&E for cultural heritage conservation.