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EUROPEAN CONFERENCE ON NON-DESTRUCTIVE TESTING

SPECIAL SESSION

MULTIMODAL NDE

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OBJECTIVE AND TOPICS: This special session will focus on multimodal non-destructive evaluation (NDE), where multiple sensing modalities or complementary features from a single method are combined to achieve more reliable and comprehensive inspection results. The emphasis is on integration and data fusion, rather than on stand-alone methods. Contributions are invited that demonstrate how multimodal approaches advance defect detection, material characterisation, and decision-making beyond the capabilities of individual methods.

Areas of interest include, but are not limited to:

- Multimodal data fusion strategies (signal-, feature-, and decision-level).
- AI- and ML-driven integration of different NDE modalities.
- Comparative or complementary use of multiple methods (e.g., infrared thermography, ultrasonics, acoustic emission, X-ray/CT, eddy current, etc.).
- Extracting multimodal features from a single method (e.g., Amplitude/phase/thermal contrast, etc.).
- Simulation-assisted multimodal evaluation and digital twins.
- Applications where multimodal NDE adds clear value (e.g., Additive manufacturing, structural health monitoring, cultural heritage, etc.).

All the instructions for paper submission are included in the conference website: https://www.ecndt2026.org