



SPECIAL SESSION

New Trends in Non-Destructive Testing of Automotive Structures

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OBJECTIVE AND TOPICS: The continuous evolution of lightweight automotive structures and multi-material designs requires reliable methods of evaluating joint integrity and performance. Non-destructive testing (NDT) techniques are essential for quality assurance, as they enable defects to be detected, material interfaces to be characterized, and structural performance to be assessed without impairing the component. The special session will be focused on new trends in NDT of welded, bonded and hybrid joints in automotive structures. The objectives of the session address quantitative relations between NDT and joint performance and promote simulation-assisted, data-driven quality assurance in manufacturing. The contributions are dedicated to cutting-edge research results as well as industrial case studies of modern NDT systems for automotive structures.

Areas of interest include, but are not limited to:

- NDT of welded, bonded and hybrid joints in automotive structures
- predictive maintenance
- quality management in the production of future vehicles

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