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ECNDT 14th 2026 ITALY

EUROPEAN CONFERENCE ON NON-DESTRUCTIVE TESTING

SPECIAL SESSION

Applications of Artificial Intelligence for Image Evaluation in Radiographic Testing

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OBJECTIVE AND TOPICS:

This special session will be focused on the status of applications of artificial intelligence (AI) for image evaluation in the NDT method of radiographic testing including CT. The upheaval of industrial applications of artificial intelligence using trained neural networks and proven AI tools allow today their practical use in the field. Advantages, disadvantages, success stories and challenges will be discussed during this session.

Areas of interest include, but are not limited to:

- AI applications in the field of Image analysis for industrial radiographic images and CT volumes
- Problems on training of AI, especially the selection of training data sets using real and simulated data
- Evaluation matrices for characterization of the fidelity of the evaluation results
- Success stories implementing AI into industrial applications
- Critical evaluation of practical implementations
- Progress in software tools for implementation of AI driven image evaluation

The above suggested chairs are the actual and the former heads of the radiology committee of the German NDT society DGZfP, the chair of ISO TC 135 SC5 “radiographic testing” and the chair of Sub-Commission VA “radiography based weld inspection” of the International Institute of Welding (IIW). So we should be able to attract enough presentations throughout Europe for an interesting special session.

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