

Session Program

29 June 2026 to 3 July 2026



The 18th International Conference on Quantitative InfraRed Thermography

Artificial Intelligence

University of Naples Federico II Conference Center
Via Partenope, 36, Naples, Italy

Tuesday 30 June

16:10

Artificial Intelligence: Part I

Session | Location: Aula Magna

16:10-16:30

Use of the RetinaNet Neural Network for Automatic Classification of Diode Package Thermograms

Speaker

Dr Krzysztof Krzysztof

16:30-16:50

Spatio-Temporal Defect Segmentation in PVC via Infrared Thermography: A Transformer Network Approach with Bayesian Optimization

Speaker

Henrique Fernandes

16:50-17:10

Unsupervised Advanced Thresholding of an Infrared Image of a Lightning-Struck Composite

Speaker

LUDOVIC GAVERINA

17:10-17:30

Automated Infrared Thermographic Inspection of Low- and Medium-Level Radioactive Waste Drums

Speaker

Anton Averin

17:30-17:50

Automated Deep Learning Framework for Seepage Detection in Earthen Dams Using Infrared Thermography

Speaker

Ms Vaishnavi Bherde

17:50

Wednesday 1 July

09:40

Artificial Intelligence: Part II

Session | Location: Room A

09:40-10:00

Automated Defect Recognition in Aeronautical Composite Structures Using Active Infrared Thermography and Deep Learning

Speaker

Henrique Fernandes

10:00-10:20

Multi-Layer Thermal Feature Analysis for Defect Detection and Characterization in AISi10Mg Parts Produced by Laser Powder Bed Fusion

Speaker

Prof. Umberto Galietti

10:20-10:40

Enhancing Low-Energy Impact Damage Detection in Carbon Composites Using Sweep-Excited Vibrothermography and Machine Learning

Speaker

Sreedhar Unnikrishnakurup

10:40

Thursday 2 July

09:40

Artificial Intelligence: Part III

Session | Location: Aula Magna

09:40-10:00

Towards Language-Guided Non-Destructive Testing with Vision-Text cues

Speaker

Mr Mohammed Salah

10:00-10:20

Deep Point Matching for Thermal Images: A Comparative Study Between CNN and ViT Architectures

Speaker

Ahmed M. Abdelbaset

10:20-10:40

Generalist Optimized Models for Failure Detection and Identification Using Thermal Images

Speaker

Henrique Fernandes

10:40

Friday 3 July

11:30

Artificial Intelligence: Part IV

Session | Location: Aula Magna

11:30-11:50

Active Infrared Thermography for Thermal Characterization of Tungsten-Based Fusion Coatings: A Combined Experimental-Numerical-AI Approach

Speaker

Dr Sreedhar Unnikrishnakurup

11:50-12:10

Object-level evaluation of model-based neural networks for thermographic image reconstruction

Speaker

Gergó Galiger

12:10-12:30

Dual-modal Defect Detection in Aeroengine Blades: A Comparative Analysis of Deep Learning Architectures using Visual and Active Thermographic Data Fusion

Speaker

Abdelrhaman Alzarooni

12:30