



A symposium on

Thermal based techniques for materials and components analysis: applications and perspectives

Organised by

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Under the auspices of

**21st International Conference on
EXPERIMENTAL MECHANICS**

Bologna, Italy

6 – 11 July, 2025

(<https://icem-21.org>)

Non-destructive testing and evaluation techniques, dedicated to structural health monitoring, damage assessment, defect detection are of great interest for industrial and civil applications. In this symposium a particular focus is dedicated to techniques based on the analysis of thermal emission and thermal response of material and components.

Abstracts are solicited from the community in the following and related areas:

- Thermomechanical approaches to fatigue and damage assessment
- Thermomechanical couplings in advanced materials
- Thermal response and microstructure
- Thermoelastic Stress Analysis (TSA) for structural health monitoring



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- Active and passive thermography techniques and applications
- Advances in signal processing
- Case studies and case histories



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Abstracts of two full pages should be written in the following format (please download the template that is available in the web-specific section).

A sample abstract is available for download at:

https://icem-21.org/wp-content/uploads/2024/01/ICEM21_Abstract_Template.docx

Paper Size:

A4, single column.

Margins:

Top Page 2.5 cm; Bottom 2.5 cm, Left & Right 2 cm.

Font and line spacing:

Times New Roman; single space.

First line:

It should be left blank, size 12, reserved for the editors.

Title:

Begins at the 2nd line, capital letters, size 12, bold, centered alignment.

Authors Names:

Size 12, bold, italic, centered alignment, two lines interval from the title above.

Authors affiliation:

Size 12, centered alignment, two lines interval from the text below.

Main Text:

Size 12, full justification, 0.5 cm indentation.

Headings:

Size 12, bold, 12 pt. top spacing, 6 pt. bottom spacing.

Legends (Figs & Tables):

Size 12

References:

Full citations should be grouped at the end of the paper and in alphabetical order of first author's name. Please, use size 10 and provide inclusive page numbers for references to journal articles and a page range for books. Each reference must be cited in the text.

which can also be used as a template.

Deadline for Extended Abstracts: 30th November 2024

The conference Proceedings with the extended abstracts and full papers will be submitted for indexation in the Web of Science and made available for free access on the Internet.

For additional information, please contact the Symposium Coordinators:

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