A symposium on

Experimental Big Data Analysis and Artificial Intelligence

Organised by

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Under the auspices of

21st International Conference on
EXPERIMENTAL MECHANICS

Bologna, Italy
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(https://icem-21.org)

Symposium description:

This symposium emphasizes the methodological innovations of experimental data analysis and the novel applications of various artificial intelligence techniques in experimental mechanics. This symposium will serve as a forum for the recent advances in experimental mechanics of AI empowerment. The organized symposium is intended to be interdisciplinary and open to authors working in different fields with a common interest in experimental mechanics intersects with AI. Papers including but not limited to the following topics are welcome:

- Novel methods and technologies for experimental big data analysis

- Recent advances in experimental mechanics of AI empowerment

- Experimental-based inverse identification methods and their applications

- Experimental image processing technologies based on deep learning

- Theories and methods in experimental design and error analysis

- Experimental data analysis and modeling in multidisciplinary intersections

- In-situ measured data analysis and modeling driven by engineering requirements

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.

Deadline for Extended Abstracts: 31st December 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.

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