

10th fatigue design

International Conference
29 & 30 November 2023 • France

CALL FOR PAPERS



Partners: Scandinavian countries

fatiguedesign.org





About

The 10th Fatigue Design conference held in 2023 aims to present the most innovative approaches and scientific progress in design methodologies, tools, and equipment's life extension, focusing on industrial applications. For this edition, the focus will be on Fatigue Life Extension and Residual Life Assessment.« Fatigue Design » became the reference conference to address the concerns of industrials on fatigue design of structures and components. It is also considered as the trade crossroads between industry and academia: 80 oral presentations were performed with 50% by industry in 2021.

Themes

The selected topics concern the various aspects of fatigue design:

- additive manufacturing,
 - big data and artificial intelligence,
 - bio-mechanical and orthopaedic implant,
 - complex loadings,
 - composites and elastomers,
 - contact fatigue,
 - damage tolerance and fatigue life, residual stress assessment,
 - experimental and numerical design and validation methods,
 - fatigue and manufacturing process (effect of microstructure, welding, residual stresses, . . .),
 - fatigue in transmission system,
 - fatigue of assemblies (mechanical, welded, adhesive-bonding, multimaterials, . . .),
 - fatigue of shape memory alloys,
 - fatigue under severe environmental conditions (hydrogen, corrosion, low temperature, . . .),
 - nonlinear behavior and cumulative damage,
 - reliability-based approaches and probabilistic methods,
 - thermal and thermo-mechanical fatigue,
 - vibration fatigue.
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Organisation

Language: conferences will be in English.

An exhibition will be held during the conference to have the possibility to present your products and services. [Download the registration form to become an exhibitor.](#) Sponsorship is also possible. Through a strategic investment, sponsors will have several advantages such as increasing their visibility and reputation. [Download the registration form to become a sponsor.](#)

Become an author

All abstracts have to be registered online at www.fatiguedesign.org.

All selected Fatigue Design 2023 papers will be published online on ScienceDirect via Elsevier Procedia Structural Integrity, which will be made available worldwide for a better dissemination and maximum exposure. The number of the Fatigue Design 2019 papers downloaded from the Elsevier Procedia Structural Integrity website has reached several thousands, after 6 months, with an average of 400 downloads per article.

For the 10th edition, several contributions to Fatigue Design 2023 will be selected for a virtual special issue of International Journal of Fatigue.

[Submit an abstract](#)

Deadline for submission of abstracts:
January 9th 2023

Abstracts acceptance notification:
March 31th 2023

Authors' registration:
April 30th 2023

Deadline for papers submission:
May 31th 2023

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Location

Cetim - 52 avenue Félix-Louat
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Access

25 km drive from the Paris
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