

# FATIGUE DESIGN 2021



## Objectives

The 9th Fatigue Design conference held in 2021 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, a focus is made on the contribution of Big Data and Artificial Intelligence to the fatigue design world

## Themes

The selected topics concern the various aspects of fatigue design:

- Experimental and numerical design and validation methods,
- Damage tolerance and fatigue life,
- Reliability-based approaches and probabilistic methods,
- Fatigue under severe conditions environment (corrosion, low temperature...),
- Nonlinear behavior and cumulative damage,
- Fatigue of assemblies (mechanical, welded, adhesive-bonding, multimaterials ...),
- Composites and elastomers,
- Bio-mechanical and orthopaedic implant,
- Contact fatigue,
- Vibration fatigue,
- Complex loadings,
- Thermal and thermo-mechanical fatigue,
- Taking into account manufacturing process in fatigue analysis (effect of microstructure, welding, residual stresses ...),
- Fatigue of Shape Memory Alloys,
- Additive manufacturing.

More information on the website : [www.fatiguedesign.org](http://www.fatiguedesign.org)

## PLACE AND DATE :

Cetim

**FROM NOVEMBER 17, 2021  
TO NOVEMBER 18, 2021**

organized by Cetim

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## REGISTRATION

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