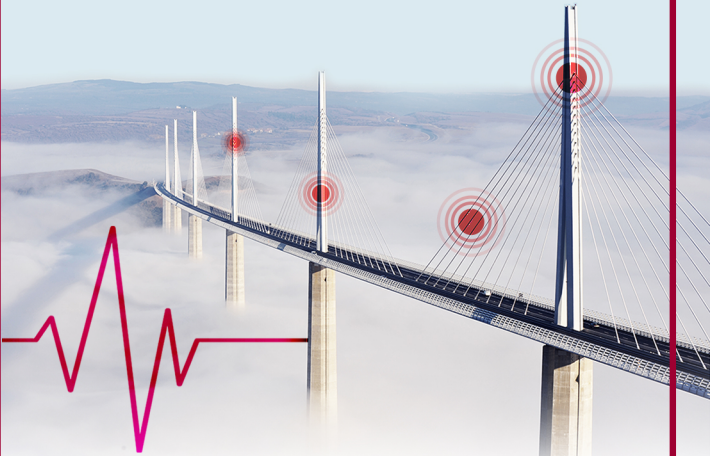




UNIVERSITÉ  
DE LORRAINE



# HAROS 2024

Health Monitoring And Retrofitting  
Of Existing Structures

A Conference in hybrid mode



OnLine

&



InPerson



26-27  
September  
2024



IUT Nancy-Brabois  
Le Montet, Rue du  
Doyen Urion, 54600  
Villers-lès-Nancy



# Objective and Scope :

Welcome to the 2nd Conference on Health and Retrofitting of Structures (HAROS2024), where excellence and innovation converge! This conference will be held in September 2024 in the city of Nancy, France. Civil engineers, scholars, professors, and students from around the globe are invited to join us for two days of collaboration, discussion, and knowledge exchange.

This conference will cover a wide range of topics in the field of Structural Health Monitoring (SHM). Indeed, many countries throughout the world are seriously struggling to quantify and ensure the security of their built heritage and their aging infrastructure networks. These buildings are frequently exposed to hazardous environmental conditions, which decrease population safety. Therefore, engineers must be able to monitor the performance of existing structures and monuments throughout their lifetime for socioeconomic reasons related to the fact that construction and rehabilitation are costly processes.

HAROS 2024 aims to investigate creative techniques and intelligent practices for SHM. It will cover a wide array of subjects, from dealing with SHM to Artificial Intelligence (AI) in civil engineering. Special attention will be paid to the development of novel sensor technologies, for continuous SHM and smart concrete applications, including SAW-integrated sensors and distributed optical fiber sensors. The impact of climate extremes on the performance and long-term viability of built heritage will also be a focus.

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