



FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE

IN COLLABORATION WITH:  
STRUCTURAL ENGINEERING - UNIVERSITY OF LIÈGE  
LUCKS TECHNOLOGIES GmbH - HAMBURG  
V2i S. A. - LIÈGE  
BUNDESANSTALT FÜR MATERIALFORSCHUNG UND -PRÜFUNG - BERLIN  
UNIVERSITY OF WÜRZBURG

# Emerging Trends in Bridge Damage Detection, Localization and Quantification

Static and dynamic measurements

Artificial Intelligence (AI) approaches

Friday 5 May 2023, 14:00 - 17:10  
University of Luxembourg, Campus Kirchberg,  
Salle Paul Feidert

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# Emerging Trends in Bridge Damage Detection, Localization and Quantification

## Programme

- 14:00** Opening, Introduction & Welcome  
Prof Stefan Maas, University of Luxembourg
- 14:10** Keynote 1: Damage assessment of concrete bridges based on model updating  
Ms Khatereh Dakhili, Doctoral researcher, University of Luxembourg
- 14:40** Keynote 2: A new structural health monitoring algorithm based on first passage time  
Mr Kevin Theunissen, Doctoral researcher, University of Liège
- 15:10** Keynote 3: Dynamic deformation measurements in practice  
Mr Christoph Lucks, Lucks Technologies GmbH, Hamburg
- 15:40** Coffee break
- 15:55** Modal identification and monitoring of large civil engineering structures  
Mr Sebastian Hoffait, V2i S.A., Liège
- 16:20** Damage detection by flexibility functions and quasi-static moving load tests  
Mr Lutz Auersch and Mr Samir Said, Bundesanstalt für Materialforschung und -prüfung, Berlin
- 16:45** ModeConv: modelling bridges with modal Graph Convolutions  
Dr Melanie Schaller, Julius-Maximilians-Universität Würzburg, Germany
- 17:10** Reception and Come together