

# I-META Workshop 2026

May 19th, 2026, LEM3 - Metz



I-Meta

**8h30 – 9h00 : Welcome Coffee**

## Opening of the Workshop

**9 :00 - 9 :10** : Jean-François Ganghoffer, General presentation of I-META ISITE project

## Session I (Chair : Badreddine Assouar)

**9 :10 – 9:50** : Le Thanh Cuong, Saigon University, Vietnam

*“Advanced Optimization Strategies and Numerical Methods for Metamaterial Design”*

**9:50 – 10:15** : Karim Ramdani, Institut Elie Carton, Université de Lorraine

*“Periodic Homogenization of Sign-changing Metamaterials”*

**10:15 – 10:40** : Damien Rotani, LMOPS

*“Dynamique des Systèmes Physiques pour le Traitement de l’Information”*

**Coffee Break : 10 :40 – 11h00**

## Session II (Chair : Nico F. Declercq)

**11:00 – 11 :40** : Muamer Kadic, FEMTO-ST, Université de Franche Comté & CNRS

*“Constrained and topological mechanical metamaterials.”*

**11 :40 – 12 :05** : Hoang Le Minh, Saigon University, Vietnam

*“Machine Learning-Based Predictive Modeling for Mechanical Engineering Applications.”*

**12 :05 – 12 :30** : Aurélien Merkel, IJL, University of Lorraine & CNRS

*“Mimicking solid states physics: non-Hermitian topology in acoustic metamaterials”*

**Lunch : 12 :30 – 14 :00**

## Session III (Chair : Jean-François Ganghoffer)

**14 :00 – 14 :25** : Luis Antonio Barrales-Mora, Georgia Tech Europe

*“Recrystallization behavior, mechanical properties and thermal stability of HEA”*

**14 :25 – 14 :50** : Mu Jiang, IJL, University of Lorraine & CNRS

*“Impedance theory-based elastic metasurfaces”*

**14 :50 – 15 :15** : Nam DO, LEM3, University of Lorraine & CNRS

*“Effects of Poisson’s Ratio on Vibration Properties of Architected materials”*

**15 :15 – 15 :40** : Yuhan Hui, IJL, University of Lorraine & CNRS

*“Transport of elastic skyrmions”*

**15 :40 – 15 :55** : Siwei Zhang, Georgia Tech Europe

*“Ultrasonics Across Disciplines: Imaging and Structural Characterization of Various Artifacts”*

**15 :55 – 16 :10** : Esma Tuzovic, Georgia Tech Europe

*“Non-Destructive Ultrasonic Characterization of Agra Marble Inlay (Parchin Kari)”*

**16 :10 : Closing Remarks**