

I-META Workshop 2026

May 19th, 2026, LEM3 - Metz



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 : Esmat Tuzovic, Georgia Tech Europe

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

16 :10 : Closing Remarks