

SEMINAR ANNOUNCEMENT

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
COLLEGE OF DESIGN AND ENGINEERING

Website: <https://cde.nus.edu.sg/ece>

Area: Metamaterials

Host: Associate Professor Qiu Cheng-Wei

TOPIC	:	Controlling Waves in Metamaterials
SPEAKER	:	Professor Muamer Kadic Université de Bourgogne Franche-Comté
DATE	:	Monday, May 29 2023
TIME	:	3:30PM to 5:00PM
VENUE	:	Block E3, E3-06-08 College of Design and Engineering, National University of Singapore

ABSTRACT

In this presentation, I will review our work on Wave control using different strategies by carefully considering effective properties obtained in dispersion relations. Particular attention will be given to tunable gaps leading to reflections and insulations, non-localities arising in non-monotonic dispersion relations, and topologically protected modes in gliding crystals.

Acta Mechanica Sinica 39 (7), 723016 (2023)
Composite Structures, 117151 (2023)
Advanced Materials, 2211801 (2023)
Communications Physics 6 (1), 75 (2023)
Advanced Materials, 2210993 (2023)
Advanced Materials, 2209988 (2023)
Science Advances 7 (49), eabm2189 (2021)
Nature Communications 12 (1), 3278 (2021)

BIOGRAPHY



Muamer Kadic (FEMTO-ST, UFC) is a university associate professor. He has published over 110 research papers in international peer reviewed journals and 4 book chapters, with the unifying theme being the conception of functional metamaterials for mechanics, acoustics, thermal, magneto-transport, diffusion and electromagnetic waves. His research on 3D printed metamaterials in optics and mechanics has been featured in a number of magazines (New Scientist, Physics Today, Physics World...). He has delivered over forty keynotes, invited and contributed talks in international conferences.

<https://cde.nus.edu.sg/ece/highlights/events/>