

METAMAT Joint Lab: Development of Metamaterials and Prototypes for Advanced Engineering Applications

Giulia Lanzara

This talk will present activities related to the development of metamaterials using hybrid additive manufacturing techniques. The focus is on metamaterials for the dissipation of vibrational energy, featuring honeycomb cellular structures with resonator inserts inspired by the structures of spider webs. The discussion will cover a range of activities, from theoretical modeling to the fabrication and experimental characterization of the first prototypes.