



University of Trento- Italy
Department of Civil, Environmental
and Mechanical Engineering

WORKSHOP ON ORIGAMI METAMATERIALS AND ARCHITECTED MATERIALS FOR INNOVATIVE ENGINEERING SOLUTIONS

Trento, January 16, 2024 - DICAM, Room 2R, 14.30

SPEAKERS

Anna Pandolfi | Politecnico di Milano, Italy

"Modelling fracture and failure with eigenstress"

Alessandro Reali | Università degli Studi di Pavia, Italy

"Some advances and applications in isogeometric analysis of coupled and complex problems"

Simone Morganti | Università degli Studi di Pavia, Italy

"Mixed isogeometric collocation methods with application to cardiac electromechanics"

Alessio Gizzi | University of Rome "Campus Bio-Medico", Italy

"Constitutive formulation of fiber-distributed homogenized constrained mixtures"

Daniele Bianchi | University of Rome "Campus Bio-Medico", Italy

"Topological optimization in additive manufacturing: integration of numerical homogenization and finite element analysis"

Roque Pitangueira | Federal University of Minas Gerais, Brazil

"FEM-SPIM coupling for modeling quasi-brittle material"

João Pedro C. V. Norenberg | Unesp - Câmpus de Ilha Solteira, Brazil

"Sensitivity and uncertainty analysis of bistable vibration energy harvesters"

Diego Misseroni | Università di Trento, Italy

"ERC CoG Self-foldable origami-architected metamaterials: kick-off meeting"

Davide Bigoni | Università di Trento, Italy

"ERC AdG Beyond hyperelasticity: one year after the beginning, perspectives and challenges"

ORGANIZING COMMITTEE

Prof. Davide Bigoni, Luca Deseri, Diego Misseroni

Workshop supported by the European Community under the projects:

ERC-CoG "SFOAM - Self-Foldable Origami-Architected Metamaterials" (ERC-2022-COG-101086644-SFOAM, PI: **Diego Misseroni**)

ERC-AdG "BEYOND - Beyond hyperelasticity: a virgin land of extreme materials" (ERC-ADG-2021-101052956-BEYOND, PI: **Davide Bigoni**)

