Scientific program of the e-Workshop Advances in ELAstoDYNamics of architected materials and BIOmaterials

Thursday November 12th

9h00 Welcome

9h30	EREMEYEV	Victor	Gdansk University of Technology, Poland	
	On effective properties of beam-lattice structures made of flexoelectric materials			
9h50	DELL'ISOLA	Francesco	University of L'Aquila, Italy	
	Micro-architecture synthesis for metamaterials			
10h10	сиомо	Massimo	University of Catania, Italy	
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10h30 Break

11h00	ROSI	Giuseppe	Université Paris-Est Créteil, France
	Generalised of metamateria		echanics : from multi scale tissues to biomechanical
			I
11h20	AGHAEI	Ali	Université Paris-Est Créteil, France
	Wave propag	ation across the	tendon-to-bone interphase: insight from an equivalent
	model with s	pecific interface	conditions
11h40	TOUBOUL	Marie	Aix-Marseille Université, France
	High-frequency homogenisation in 1D periodic media with imperfect interfaces of the		
	spring-mass type		
12h00	PLACIDI	Luca	International Telematic University Uninettuno, Italy
	Evolution of a	lamage and plas	sticity in a variational framework without flow rule

12h20 Lunch break

14h00	LOMBARD	Bruno	Aix-Marseille Université, France	
	Unfolding of a	bistable tape spi	ring: analogy with a regularizd Ericksen bar with nonconvex	
	potential and extended Lagrangian			
14h20	DAVî	Fabrizio	Università Politecnica delle Marche, Italy	
	Wave propagation in micromorphic anisotropic continua with an application to PWO tetragonal crystals			
14h40	UNGUREANU	Bogdan	Imperial College London, UK	
	Energy harvesting elastic edge waves via the topological rainbow effect			
15h00	GANGHOFFER	Jean-François	University of Lorraine, France	
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15h20 Break

15h50	CORNAGGIA	Rémi	Sorbonne Universités, France
	Tuning effective	ve dynamical p	roperties of periodic media by FFT-accelerated topological
	optimization		
16h10	NASSAR	Hussein	University of Missouri, USA
	Polar metamaterials and cloaking		
16h30	BABLU	Muhamma	d A Oklahoma State University, USA
	Sound Transmission Loss Behavior of Meta-Acoustic Barriers with Anomalous Effective-		
	Mass		

Friday November 13th

9h30	ALLAIN Jean-Marc É	cole Polytechnique, France	
	Observation of the microstructure ev	volution during a mechanical assay on cardiac tissue	
9h50	COLORADO CERVANTE José Ivan U	Iniversité Paris-Est Créteil, France & University Roma Tre, Italy	
	Evaluation of the principal strain lines for assessment of the Left Ventricular function		
10h10	TERESI Luciano U	Iniversity Roma Tre, Italy	
	Liquid transport in active soft matter		

10h30 Break

11h00	GEORGE	Daniel	Université de Strasbourg, France
	First results on bone density variation under high loads through the competition between osteoblas		
	and osteoclasts		
11h20	SANSALONE	Vittorio	Université Paris-Est Créteil, France
	A model of bone tur	nover in the fr	ramework of generalized continuum mechanics
11h40	DOT	Gauthier	Arts et Metiers ParisTech & Université Paris-Est Créteil, France
	Clinical and numerical study of a statically determinate lingual mechanism for orthodontic tooth		
	displacement		
12h00	GIORGIO	Ivan	University of L'Aquila, Italy
	A diffusive model to describe the mechanically driven biological stimulus for bone remodeling:		
121100	A diffusive model to	describe the r	mechanically driven biological stimulus for bone remodeling:

12h20 Lunch break

14h00	EUGSTER	Simon	University of Stuttgart, Germany
	Finite element f	ormulation for con	strained spatial nonlinear beam theories
14h20	GRECO	Leopoldo	University of Catania, Italy
	A non linear G1-	conforming Bèzier	finite element formulation for the analysis of slender beams
14h40	BARCHIESI	Emilio	University of L'Aquila, Italy
	Homogenised modeling of bi-pantographic fabrics: micro-to-macro transition and experimental		
	validation		

15h00 Closing