

DAY 1 - THURSDAY, JULY 4		Claude Papi room, Congress Center, Ajaccio
	08:00	Check in and Coffee break (30 minutes)
	08:30	Welcome Message for Conference Opening - Prof. Frédéric Demoly
	08:40	<b>Plenary Speaker - Prof. David Rosen - Conceptual Design of 4D Additive Manufactured Devices</b>
DESIGN METHODS OF 4D-PRINTED STRUCTURES AND METAMATERIALS	09:10	Design and Analysis of Textured Rotor Blades for Additive Manufacturing of Aeroacoustic Metamaterial <i>Keun Park</i> , <i>Yae-Joon Yang</i> , <i>Seo-Hyeon Han</i> , <i>Sunuk Ahn</i> , <i>Jungwoo Kim</i> , and <i>Seung Jae Lee</i>
	09:20	Data-Driven Inverse Design and Optimization of Mechanical Metamaterials <i>Moslem Mohammadi</i> , <i>Abbas Z. Kouzani</i> , and <i>Ali Zolfagharian</i>
	09:30	Microfabricated Fabry Perot Interferometer with Tailored Thermal Expansion via 4D Printing <i>Julio A. Iglesias Martinez</i> , <i>Gwenn Ulliac</i> , <i>Thibaut Sylvestre</i> , <i>Antoine Barbot</i> , <i>Muamer Kadic</i> , <i>Frédéric Demoly</i> , and <i>Johnny Moughames</i>
	09:40	3D printed stacked dielectric actuators – design principles <i>Tibor Barši Palmić</i> and <i>Janko Slavić</i>
	09:50	Biomimicry and Generative Design in Textile Effluent Filtration: A Novel Approach <i>Afonso Gonçalves</i> , <i>Maria João Fernandes Moreira</i> , <i>Ángela Pinto</i> , <i>Joana Antunes</i> , <i>Luisa M. Arruda</i> , <i>João Bessa</i> , <i>Fernando Cunha</i> , and <i>Raul Figueiro</i>
	10:00	Coffee break (20 minutes)
	10:20	<b>Keynote Speaker - Dr. Muamer Kadic</b>
ADDITIVE MANUFACTURING OF INNOVATIVE STRUCTURES AND MATERIALS	10:40	LCE Machines: Using printing to access space-based applications <i>Jennifer M. Boothby</i> , <i>Avi Bregman</i> , <i>Tessa VanVolkenburg</i> , <i>Doug Trigg</i> , <i>Sal Nimer</i> , and <i>Ryan Carter</i>
	10:50	ColdSpray combinatory synthesis of copper based Shape Memory Alloys (SMA) <i>Lacondemine Tanguy</i> , <i>Kalmar Rémy</i> , and <i>Fendler Manuel</i>
	11:00	Experimental study of the mechanical behavior of TiNi printed by Fused Deposition Modeling process according to the Ti and Ni composition <i>Alice Piéard-Smeets</i> , <i>Said Abboudi</i> , and <i>Lucas Dembinski</i>
	11:10	Recent advancements in laser additive manufacturing of Ni-Mn-Ga magnetic shape memory alloys <i>Ville Laitinen</i> , <i>Anastassia Milleret</i> , <i>Moataz M. Attallah</i> , and <i>Kari Ullakko</i>
	11:20	Enabling Material Extrusion of silicone for 4D printing <i>Alessio Pricci</i> , <i>A. Pavone</i> , <i>G. Stano</i> , <i>O. Fiume</i> , and <i>G. Percoco</i>
	11:30	<b>Keynote Speaker - Dr. Pablo Valdivia y Alvarado</b>
	12:00	Lunch (90 minutes)
DESIGN METHODS OF 4D-PRINTED STRUCTURES AND METAMATERIALS	01:30	<b>Plenary Speaker - Prof. Kristina Shea</b>
	02:00	Machine Learning Based Design for Multimaterial 4D Printing <i>Xiaohao Sun</i> , <i>Liang Yue</i> , <i>Kun Zhou</i> , <i>Frédéric Demoly</i> , <i>Ruike Zhao</i> , and <i>H. Jerry Qi</i>
	02:10	Efficient design space exploration of 4D printed, architected, active composites using discrete structural models <i>Andreas Walker</i> and <i>Kristina Shea</i>
	02:20	Deep Learning Powered 4D Printing Design of Hierarchical Architecture with Non-Rectangular Shapes <i>Luchao Jin</i> , <i>Bingcong Jian</i> , <i>Jingchao Jiang</i> , <i>Xiaoya Zhai</i> , <i>Qi Ge</i> , and <i>Wei-Hsin Liao</i>
	02:30	Artificial intelligence empowered design of shape morphing polymeric actuators triggered by biodegradation <i>William Solórzano-Requejo</i> , <i>Francisco Franco Martinez</i> , and <i>Andrés Díaz Lantada</i>
	02:40	Construction of a 4D Printing Ontology Supporting Knowledge Graphs Using a Multimodal Large Language Model <i>Oualid Bouzime</i> , <i>Hichem Seriket</i> , <i>Christophe Cruz</i> , <i>Jean-Claude André</i> , <i>H. Jerry Qi</i> , and <i>Frédéric Demoly</i>
	02:50	Coffee break (25 minutes)
DEVELOPMENT OF NEW ACTIVE MATERIALS	03:15	<b>Keynote Speaker - Dr. Sébastien Blanquer</b>
	03:35	Multimodal and Multistimuli 4D-Printed Magnetic Composite Liquid Crystal Elastomer Actuators <i>Erick R. Espindola-Pérez</i> , <i>Javier Campo</i> , and <i>Carlos Sánchez-Somolinos</i>
	03:45	4D printing of objects exhibiting magnetic and plasmonic responses <i>Amélie Pérot</i> , <i>Andrea Cosola</i> , <i>Giancarlo Rizza</i> , <i>Clément Sanchez</i> , <i>Philippe Belleville</i> , and <i>Marco Faustini</i>
	03:55	Additive Manufacturing of electrically conductive Shape Memory Polymers joints: effect of process parameters <i>Gianni Stano</i> , <i>Mattia D'Orazio</i> , <i>Antonio Pavone</i> , <i>Rosanna Rifino</i> , and <i>Gianluca Percoco</i>
	04:05	The effects of tensile strength and different light crosslinkers on 4D printed biomaterial <i>Lubna Zeenat</i> , <i>Ashis Kumar Bera</i> , <i>Falguni Pati</i> , and <i>Ali Zolfagharian</i>
	04:15	Enabling Functionality and Miniaturization in Liquid Crystalline Elastomers based Soft Robotics through Additive Manufacturing <i>Carlos Sánchez Somolinos</i> , <i>Maria López-Valdeolivas</i> , <i>Lorena Ceamanos</i> , <i>Mehrzad Javadzadeh</i> , <i>Lorena Montesino</i> , <i>Erick R. Espindola-Pérez</i> , <i>Paolo Sartori</i> , and <i>Augusto Hernández</i>
DAY 2 - FRIDAY, JULY 5		Claude Papi room, Congress Center, Ajaccio
	08:00	Coffee break (30 minutes)
ADVANCED ADDITIVE MANUFACTURING TECHNIQUES	08:30	<b>Plenary Speaker - Dr. Renee Ruike Zhao</b>
	09:00	4D Printing - A Cross-Sectional Technology <i>Dilip Chaliserry</i> , <i>Fabian Ziervogel</i> , and <i>Thorsten Pretsch</i>
	09:10	5-Axis, Direct, 4D Printed Human-Machine Interfaces <i>Joël N. Chapuis</i> and <i>Kristina Shea</i>
	09:20	Freeform liquid 3D printing of multimaterial functional structures for soft robotics applications <i>Théo Calais</i> , <i>Kanhere E.2</i> , <i>Stalin T.</i> , <i>Joseph V.S.</i> , <i>Chooi A.</i> , <i>Plamootil Mathai A.R.</i> , <i>Valdivia y Alvarado P.</i>
	09:30	Design and fabrication approach in biomimetic strain-stiffening composite mats with negative Poisson's ratio <i>Zhander Vohr Soreño</i> , <i>Indra Apsite</i> , and <i>Leonid Ionov</i>
	09:40	Design and Additive Manufacture of 3D Continuous Fiber Reinforced Components <i>Martin L. Dunn</i> , and <i>Kai Yu</i>
	09:50	Coffee break (25 minutes)
DEVELOPMENT OF NEW ACTIVE MATERIALS	10:15	<b>Keynote Speaker - Dr. Jean-Fabien Capsal</b>
	10:35	Multifunctional nanocomposite materials for high resolution 3D printing at the nanoscale, nanoparticles assembly and nano-optics <i>Borui Li</i> , <i>Ali Issa</i> , <i>Abdelrahman Abdelaal</i> , <i>Dandan Ge</i> , <i>Aurélien Broussier</i> , <i>Christophe Couteau</i> , <i>Sylvain Blaize</i> , <i>Renaud Bachelot</i> , <i>Jacques Lalevée</i> , and <i>Safi Jradi</i>
	10:45	Composite cones made by 4D printing <i>Suong Van Hoa</i> , <i>Mahmoud Feeeidouni</i>
	10:55	From morphology to shape memory properties of 4D printed blends and basalt composites <i>Mohamed Ali Kouka</i> , <i>France Chabert</i> , <i>Mohamed Habibi</i> , <i>Fethi Abbassi</i> , <i>Christian Garnier</i>
	11:05	Investigation on Shape Memory Behavior of PLA based structures: Experimental and Numerical Study <i>Rituraj Kumar</i> , <i>Theertha P Biju</i> , <i>Saiyadali H Ladhakhan</i> , and <i>Somashekara MA</i>
	11:15	4D Printing Continuous Fibre-Reinforced Composites for Sustainable Shape Memory and Strength <i>Mohammadreza Lalegani Dezaki</i> and <i>Mahdi Bodaghi</i>
	12:00	Lunch (90 minutes)
MECHANICAL BEHAVIOR AND ADVANCED MODELING/SIMULATION	01:30	<b>Keynote Speaker - Dr. Mahdi Bodaghi</b>
	01:50	Mechanical behavior of 3D printing gyroid structures using varioShore TPU filament <i>Hervé Pelletier</i> , <i>Damien Favier</i> , and <i>Antoine Egele</i>
	02:00	Heat transfer optimization of a lattice structure in injection mold <i>Nadhir Lebaal</i> , <i>Alaeddine Zereg</i> , and <i>Abdelhakim Settar</i>
	02:10	Thermo-electro-active polymers as 4D printing materials: An experimentally-driven computational modelling framework <i>Mokarram Hossain</i> , <i>Markus Mehnert</i>
	02:20	Effect of material stiffness on controlling the curvature of 4D textiles <i>Stefano Pandini</i> , <i>Chiara Pasini</i> , <i>Leo-Paul Legrand</i> , <i>Davide Battini</i> , <i>Andrea Avanzini</i> , <i>Giulia Scalet</i> , and <i>Matteo Arricca</i>
	02:30	Coffee break (20 minutes)
	02:50	<b>Keynote - Prof. Thomas Gries</b>
4D PRINTING APPLICATIONS	03:10	3D and 4D printing of scaffolds for tissue regeneration <i>Piotr Szczygiet</i> , <i>Adam Jabłoński</i> , <i>Jarostaw Janusz</i> , <i>Jana Frankova</i> , and <i>Izabella Rajzer</i>
	03:20	Advancing Wrist Rehabilitation: A Novel Approach Integrating 4D Printing and IoT for Personalized Training Service <i>Wenxin He</i> and <i>Yicha Zhang</i>
	03:30	Advancements in 4D Textiles: Integrating Shape Memory Polymers Fibres for Controlled Transformation <i>Danchen Zhang</i> , <i>Felix Krooß</i> , and <i>Thomas Gries</i>
	03:40	Shape-memory polymer optical fibers <i>Clément Strutyński</i> , <i>F. Désévéday</i> , <i>G. Gadret</i> , <i>C.-H. Brachais</i> , <i>B. Kibler</i> , and <i>F. Smektala</i>
	03:50	Conference Wrap Up
	07:00	Gala Dinner