Day 1 - October 02, 2023		
Meeting Hall: Rembrandt 2/3		
08.00 - 08.45	Registration	
08.45 - 09.00	Introduction	
	Keynote Presentations	
09.00 - 09.40	3D Printing at the Nanoscale – A Perspective	
07.00 - 07.40	Harald Plank, Graz University of Technology, Austria	
09.40 - 10.20	Binder Jetting Powder Bed Additive Manufacturing followed by Reactive Infiltration Assisted Sintering of Metal/Ceramic Composites: Principles of Technology, Physical Background, Materials, Product's Characterization, Challenges Alexander Katz-Demyanetz, Technion University, Israel	
10.20 - 11.00	Exhibitor Presentation	
	Group Photo (11.00 - 11.15)	
	Networks & Refreshments @ Pre-Function Area (11.15 - 11.30)	
	Oral Presentations	
Chair	Alexander Katz-Demyanetz, Technion University, Israel	
Co-Chair	Andrei C. Popescu, National Institute for Laser, Plasma and Radiation Physics (INFLPR), Romania	
Sessions:	Metal 3D Printing 3D Printing Materials Polymers in 3D Printing 3D Printing in Healthcare, Life Sciences & Medicines 3D Bio Printing	
11.30 - 11.55	Laser Energy Assisted Breakdown Spectroscopy for Composition Monitoring During Laser Directed Energy Deposition	
	Andrey Voevodin, University of North Texas, USA	
11.55 - 12.20	Tribology and Corrosion behavior of Gray Cast Iron brake Discs Coated with Inconel 718 by Direct Energy Deposition Diana Chioibasu, National Institute for Laser, Plasma and Radiation Physics (INFLPR),	
	Romania	
12.20 - 12.45	An In Situ Approach by Synchrotron X-ray Scattering to Evaluate the Bioink based Hydrogel Anisotropy while Extrusion Printing	
	Anatole Morcos, VetAgro Sup, UPSP ICE 2021.A104, France	
12.45 - 13.10	In situ Monitoring of Additive Manufactured Metal Matrix Composites Materials via Infrared Thermography and High-Speed Imaging	
	P. V. Toma, National Institute for Laser, Plasma and Radiation Physics (INFLPR), Romania	
	Lunch @ Open Lobby Restaurant (13:10 - 14.00)	
	Metal Matrix Composites Manufactured by Laser Metal Deposition	
14.00 - 14.25	Sabin Mihai, National Institute for Laser, Plasma and Radiation Physics (INFLPR), Romania	
14.25 - 15.50	Optimising Fused Deposition Modelling (FDM) Parameters for Enhanced Mechanical Properties of 3D Printed Parts	
	Nida Naveed, University of Sunderland, UK	

15.50 - 16.15	3D Printing of Doped Silica Glass Microstructures by Two-Photon Polymerization for Photonics Applications
	Halima El Aadad & Marc Douay, CNRS, France
1/15 1/ 10	The Improvement of Hemp/PLA Filament to Enhance Sustainability in 3D Printing
16.15 - 16.40	Cansu Asil Örs, CFN Kimya, Turkey
	Networks & Refreshments @ Pre-Function Area (16.40 - 17.00)
17.00 - 17.25	Reprocessed PLA Filament Extrusion: In-process Degradation Assessment and Mitigation through a Soft Sensor
	Tiago E.P. Gomes, University of Aveiro, Portugal
17.25 - 17.50	Combining Femtosecond Laser and Beam-Shaping Towards Efficient Bioprinting
17.25 - 17.50	Linas Jonušauskas, Vital3D Technologies, Lithuania
17.50 - 18.15	Vat Polymerisation 3D Printing of Antimicrobial Materials
17.50 - 16.15	Alice Shannon, University of Limerick, Ireland
18.15 - 18.40	Cold Resistance and Flame Retardancy by Adding Particles of Thermoplastic Compound for Application to Big Area Additive Manufacturing
	Jinwoo Lee, Korea Institute of Footwear & Leather Technology, South Korea
18.40 - 19.05	Framework for Adoption of Metal Additive Manufacturing in the Oil and Gas Industry in Africa
	Al-Amin Barambu Umar, Nigerian National Petroleum Company Limited, Nigeria
19.05 - 19.30	Engineering the Degenerative Cartilage with the use of 3D Biological Scaffolds from Human Umbilical Cord Tissue
	Tayyaba Bari, IRCBM, COMSATS Institute of Information Technology, Pakistan
	Day 1 Concludes followed by Awards Ceremony

	Day 2- October 03, 2023
	Meeting Hall: Rembrandt 2/3
	Keynote Presentations
09.00 - 09.40	Analytical Modelling of Directed Energy Deposition Additive Manufacturing Processes
	Andrei C Popescu, National Institute for Laser, Plasma and Radiation Physics (INFLPR), Romania
00 40 10 20	Additive Manufacturing in Underwater Applications
09.40 - 10.20	Kinga Korniejenko, Cracow University of Technology, Poland
10.20 - 11.00	Enhancing Museum Experiences for the Visually Impaired: Designing Accessible Cultural Heritage through Tangible Technologies
	Alexandra Danial-Saad, University of Haifa and The Academic Arab College for Education in Israel – Haifa, Israel
	Networks & Refreshments 11.00 - 11.25 @ Pre-Function Area
	Oral Presentations
Chair	Harald Plank, Graz University of Technology, Austria
Co-Chair	Alexandra Danial-Saad, University of Haifa and The Academic Arab College for Education in Israel – Haifa, Israel
Sessions	3D Printing Future Technology Innovations, Design & Future Technology in 3D Printing 3D Printing 3D Printing & Beyond: 4D Printing Advances in 3D Printing & Additive Manufacturing Technology 3D Printing in Manufacturing
11.25 - 11.50	Unlocking the Potential of Multi-Material Printing with NovoJet
11.25 - 11.50	Ramon Borrell, Quantica GmbH, Germany
11.50 - 12.15	Advanced Innovations in 3D Printing in The Field of Medicine
11.50 - 12.15	Manuel Domínguez, National University of Distance Education, Spain
12.15 - 12.40	Additive Manufacturing For on Earth, on Orbit and on Planet Space Applications
12.13 - 12.40	Andrew Norman, European Space Agency, Netherlands
12.40 - 13.05	Design & Manufacturing of Dielectric Resonators via 3D Printing
12.40 - 15.05	Paris, Comillas Pontifical University, Spain
	Lunch 13:05 - 14.00 @ Open Lobby Restaurant
	Molten Metal Deposition: The Single-Step Direct Aluminium Additive Manufacturing
14.00 - 14.25	Technology
	Chola Elangeswaran, ValCUN, Belgium
14.25 - 14.50	The Influence of 3D Printing Parameters on the Control of Morphing Behavior in 4D Printing
	Mylene S. Cadete, University of Aveiro, Portugal
14.50 - 15.15	POLTAG® Technology for 3D Printing and Additive Manufacturing: Authentication and Tracking of 3D Printing Solid and Liquid Materials at Molecular Level by Novel Sequence-Defined Macromolecules
	Maziar Matloubi, Polysecure GmbH, Germany
15.15 - 15.40	Reactive Hybrid Additive Manufacturing of Large-scaled Parts Using a Polyurea System and a 6-axis Industrial Robot
	Jens Butzke, University of Applied Sciences Darmstadt, Germany

15.40- 16.05	Utilization of Contemporary Capabilities of 3D Printing Cementitious Mixtures to Produce Bridge Structures		
	Hvízdal and Michael Gabriel, Klokner institute - CTU, Czech Republic		
	Networks & Refreshments 16.05 - 16.25 @ Pre-Function Area		
16.25 - 16.50	A Progressive Thermal Model For Fiber-Reinforced Polymer Composite 3D Printing		
	Ali Sarhadi, Technical University of Denmark, Denmark		
	Poster Presentations		
3DP - 01	3D Printing as an Educational and Capacity Building Medical Resource for Resource-		
	Limited Settings		
	Sthefon Tran, California University of Science and Medicine, USA		
3DP - 02	Using 3D Printing Technology to Develop a Home Collection and Recycling Container		
	Susana Costa, PIEP - Innovation in Polymer Engineering, Portugal		
3DP - 03	Semisolid Extrusion 3D Printing of Orodispersible "Printlets": Design and Disintegration		
	Nicola Paccione, TECNALIA, Basque Research and Technology Alliance (BRTA), Spain		
3DP - 04	Circular Wax Formwork 3D Printing		
3DP - 04	Nicolas Ramirez Ortiz, University of Southern Denmark, Denmark		
3DP - 05	Superhydrophobic Structures Fabricated by 3D Printing based on Digital Light Processing		
	Noa Battat, The Hebrew University of Jerusalem, Israel		
3DP - 06	Innovative Chemical Polishing Processes for Complex Geometries and Inner Parts of 3D Printed Metal Components		
	Toni A. Meseguer, Leitat Technological Center, Spain		
3DP - 07	Additive Manufacturing of 2D Structures to Achieve a Balance between Weight and Impact Absorption Performance		
	Joana Silva, PIEP - Innovation in Polymer Engineering, Portugal		
200 00	Vat Polymerisation 3D Printing of Antimicrobial Materials		
3DP - 08	Alice Shannon, University of Limerick, Ireland		
3DP - 09	Robocasting and Mechanical Characterization of Hierarchically Porous Ceramic Structures		
	Savvas Koltsakidis, International Hellenic University, Greece		
200 10	3D Printed Electroactive Polyvinylidene Fluoride as Dielectric in Planar Capacitors		
3DP - 10	Loredana Tammaro, ENEA, Portici Research Centre, Italy		
	e-Poster Presentation		
3DP - 01	Bringing The Artificial Disk Closer to The Invertebral Disc through an Exploration of Alternative 3D Printing Materials		
	Robert Evans, University of Georgia, USA		
	Day 2 Concludes		
Panel Discussion - Awards & Closing Ceremony followed by Vote of Thanks			

	Virtual Program	
	Day 1 - October 02, 2023 BST	
Keynote Presentations		
11:00 - 11:50	Additive Manufacturing Versus Traditional Manufacturing Processes	
11:00 - 11:50	Hamid Mehrabi, University of Sunderland, UK	
Oral Presentations		
11:50 - 12:20	DLP 3D Printed Oxide Ceramics and Alumina-Reinforced Zirconia (ARZ) Composites: Optimization of Slurry and Sintering Strategies	
	M. Irfan Hussain, University of Science and Technology Beijing, China	
12:20 - 12:50	A Comparative Study of Stress Analysis is Conducted Using FEM to Analyze the Machining Process of Ti ₆ Al ₄ V and Additively Manufactured Ti ₆ Al ₄ V.	
	Surinder Pal, Atlantic Technological University, Ireland	
12:50 - 13:20	Advancements in 3D Printing and Additive Manufacturing Techniques through Integration with Finite Element Analysis.	
	Manne Bharathi, Chalapathi Institute of Engineering and Technology, India	
	Lunch 13:20 - 14:00	
14:00 - 14:30	Improving the Fatigue Design of Mechanical Systems such as Refrigerator	
14:00 - 14:30	Seongwoo Woo, Ethiopian Technical University, Ethiopia	
14:30 - 15:00	3D Bioprinted Organ-on-Chips	
	R Thiruchelvi, Aman Aqua Bio Chemical free plant Activator Manufacturer, India	
15:00 - 15:30	Experimental and Theoretical Study on the Seismic Performance of Optimized Asymmetric Structures	
	Zakia Sadat, Gazi University, Turkey	
15:30 - 16:00	Machine Learning-Based Prediction of Rheological Properties of 3D-Printed Concrete	
	Raja Dilawar Riaz, National University of Sciences and Technology (NUST), Pakistan	
Day 1 Concludes		

Day 2 - October 03, 2023 BST	
	Oral Presentations
11:00 - 11:30	A 3D Printed End Term Applicators for Electron Radiation Therapy: A New Frontier in Cancer Treatment
	Md. Jobairul Islam, Labaid Cancer Hospital and Super Specialty Center, Bangladesh
11:30 - 12:00	Selective Laser Melting Technology in the Manufacture of Biomaterials and Automobile Parts
	Omid Ashkani, Azad University Science and Research Branch, Iran
11:30 - 12:00	Use of 3D Printing in Complex Bone Tumors
	Abhay Meena, Lok Nayak hospital, India
11:30 - 12:00	Additive Manufacturing of Microstructured Optical Waveguides using Two-Photon Polymerization
	Leonnel Mhuka, Zhejiang University of Science and Technology, China
11:30 - 12:00	Analysis of 3D Printing Defects in Polylactic Acid Parts
11:30 - 12:00	Shaan Mohammad, University Polytechnic, AMU, India
	Poster Presentations
12:00 - 12:30	3D Bio Printed Biodegredable Composite Material for Pediatric Craniomaxillofacial Implants
	İpek Döş, TraBtech – Advanced Implant Technologies, Turkey
12:30 - 13:00	3D Printing Technology Pharmaceutical Delivery: Contemporary Advancement and Application
	Jeevandeep Mishra, IPS Academy College of Pharmacy, India
13:00 - 13:30	Comparative Evaluation of EBM and SLM Additive Manufacturing Technologies for Fabrication of Lattice Structures in Metal Implants
	Zeynep Kırımler, TraBtech – Advanced Implant Technologies, Turkey
13:30 - 14:00	Mechanical and Corrosion Responses of Minor and Trace Elements in Cocrmo Alloy Powders on Additively Manufactured Dental Crowns and Bridges
	Ece Tutsak, TraBtech – Advanced Implant Technologies, Turkey
Day 2 Concludes	