

6th INTERNATIONAL CONGRESS ON 3D PRINTING TECHNOLOGIES AND DIGITAL INDUSTRY – 3D-PTC2022, 22 - 23 November 2022, Bucharest, ROMANIA

Program

22 November 2022	Medical Applications for 3D printing, Digital Industry, Program - Control Technologies, Mechanical Properties of Filaments	
	For login please join on your computer, mobile app or room device Click here to join the meeting Meeting ID: 310 501 449 535; Passcode: 9vqF3P	
Time	Title	Presenter
08:30 – 09:00	Opening ceremony	
<i>Chaired by: Prof Mustafa Aydın and Dr Hanane Zermane</i>		
09:00 – 09:30	Improvement of fatigue strength of 3d printed ti6al4v by mechanical surface treatments for medical implants	Hitoshi Soyama
09:30 – 10:00	Bio-Manufacturing Human Tissues In Vitro: From Formulation To Applications	Naresh Kasoju
10:00 – 10:30	Digital twins in manufacturing	Javaid Butt
10:30 - 11:00	Photopolymerization-based Additive Manufacturing of Active Medical Devices	Roger Narayan
11:00 – 11:30	Coffee break	
11:30 - 12:00	Materials and Technologies for 3D/4D Printing in Tissue Engineering	Min Wang
12:00 - 12:30	An overview of Blockchain and IOTA Tangle in the Internet of Things	Burhan Duman
12:30 – 12:45	Estimating safety numbers of slopes with artificial neural networks	Betül Şen
12:45 – 13:00	The role of crystallographic texture on grain boundary characteristic distribution for defect prevention in metal additive manufacturing	Ozkan Gokcekaya
13:00 – 14:00	Lunch	
<i>Chaired by: Prof Ömer Eyercioğlu and Dr Taner ERSÖZ</i>		
14:00 – 14:15	3D Printers in Neural Tissue Engineering	Sertap Kamçı
14:15 – 14:30	Dox-loaded PLA tumor dressing design with 3D printer for controlled release systems	Ayşe Betül Bingöl
14:30 – 14:45	Wear Performance of Additively Manufactured and Hot Isostatic Pressed Cr	Asli Gunay Bulutsuz
14:45 – 15:00	3D Printing for Tissue Engineering Applications	Neslihan Top
15:00 – 15:15	Digitalization in interior architecture and production of architectural land models with 3D printers	Deniz Altunkaynak
15:15 - 15:30	Machine learning and data mining in human resource management: an application in the automotive industry	Filiz Ersöz

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15:30 - 15:45	Nature-Inspired Design Idea Generation with Generative Adversarial Networks	Nurullah Yüksel
15:45 - 16:00	3D Printing Applications in Breast Cancer	Selin Adıgüzel
16:00 - 16:30	Coffee break	
<i>Chaired by: Prof. Filiz Ersöz and Dr Hakan Maden</i>		
16:30 - 16:45	Oxide Layers Deposited by Inkjet Printing	Marin Gheorghe
16:45 - 17:00	2D Lattice Generation by Computational Design Method	Nurullah Yüksel
17:00 - 17:15	Autonomous Line Suspended Power Transmission Lines Inspection Robots	Zehra K. Küçük
17:15 - 17:30	Electrochemical Behaviors of Ti-6Al-4V Alloy Manufactured by Electron Beam Melting (EBM) Technique	Hakan Yilmazer
17:30 - 17:45	The 3D printing technology in stereometry training	Penio Dimitrov Lebamovski
17:45 - 18:00	Development of an intelligent control system for the exploitation of knowledge of a real industrial process	Hanane Zermane
18:00 - 18:15	Prediction of the Amount of Cement Material in An Algerian Cement Plant	Hanane Zermane
18:15 - 18:30	Effect of Beta Annealing Heat Treatment on Corrosion Behavior of Ti-6Al-4V Alloy Manufactured by Selective Laser Melting (SLM) Technique	Hakan Yilmazer
18:30 - 18:45	Investigation and characterization of PLA and ABS materials for 3D printed parts for auto industry	Mehtap Köse Moran
18:45 - 19:00	The effect of lattice structure on the product mechanical strength in 3D printer technology	Mehtap Köse Moran
19:00 - 19:15	Ag Powder Reinforced PLA Based Biocomposite Filament Manufacturing and Characterization	Resul Sönmez

23 November 2022	Design, Modelling and Analysis, Application Fields
	For login please join on your computer, mobile app or room device Click here to join the meeting Meeting ID: 386 541 761 029; Passcode: fga4ao

Time	Title	Presenter
<i>Chaired by: Dr. Oguzhan Gündüz and Dr. Hakan Yilmazer</i>		
8:30 - 09:00	3D Bioprinting of Living Tissues and Organs	İbrahim Tarık Özbolat
09:00 - 09:30	Control of Crystallographic Texture in Powder Bed Fusion AM of Metals for Biomedical and Industrial Applications	Takayoshi Nakano
09:30 - 10:00	Advancement in Biomaterials and their applications in biomedical fields	Ankita Awasthi
10:00 - 10:30	Direct energy deposition of functional materials via Laser Additive Manufacturing / 3D printing: process modelling versus experimental validation	Ion Mihăilescu

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10:30 – 10:45	An example of using game design in education in terms of industrial design: the “build your own rocket” project and analysis of rocket model printing with 3D printer	Celeleddin Kaleli
10:45 – 11:00	Analysis of 3D printed gears strength using image processing method	Murat Aydin
11:00 – 11:30	Coffee break	
11:30 – 11:45	Effect of slope angle to thermal deformation on the non-planar surface of hybrid large-scale additive manufacturing	Mehmet Aladag
11:45 – 12:00	Integration of industrial Delta and articulated arm robots in automation cells	Mihai Costea
12:00 - 12:15	Optimization of freeze dryers	Mujtaba Abbakar
12:15 - 12:30	Development of tank valve for water treatment device	Hakan Maden
12:30 – 12:45	Application of Biomimetic Based Lattice Structures to Topological Optimization	Nur Zeynep Cengiz Bulut
12:45 – 13:00	Sediment breaking filter design for individual floor heating natural gas installations	Hatice Evlen
13:00 – 14:00	Lunch	
<i>Chaired by: Prof. Filiz Ersöz and Dr Hanane Zermene</i>		
14:00 - 14:15	Optimization of Dimensional Accuracy 3D Printing Manufacturing Parameter in PLA Material Samples By Image Processing Techniques	Batuhan Efendioğlu
14:15 - 14:30	Numerical Modelling Of Heat Distribution In Powder Bed Fusion Process	Oğulcan Eren
14:30 - 14:45	Development of air purification device with UV-C	Hakan Maden
14:45 - 15:00	Optimization of machine parts models for 3D printing	Alexey Voropay
15:00 - 15:15	Coating of Additive Manufactured Lattice Structures: A Case Study with Electrophoretic Deposition	Doruk Gürkan
15:15 - 15:30	Continuous granule feed 3D printer	Mustafa Aydın
15:30 – 15:45	Risk Analysis in Istanbul and Iis Districts with Fine-Kinney Method	Taner Ersöz
15:45 – 16:00	3D Printing Industry Marketing Environment Awareness: Example of Education	Gözdegül Arik Karamik
16:00 – 16:30	Coffee break	
<i>Chaired by: Prof. Mustafa Aydın and Dr Ishak Ertugrul</i>		
16:30 - 16:45	An experimental investigation about support remnants in laser powder bed fusion process	Orhan Gülcan
16:45 - 17:00	Investigation of electrical conductivity distribution of different materials	Ishak Ertugrul
17:00 - 17:15	3D printing of model and artistic ceramics: to revisit the pottery	Séverine A.E. Boyer

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17:15 - 17:30	3D printing and Photogrammetry for a more accessible archaeological heritage. The case of painted ceramics of the Iberian tradition from Villares de Andújar (Jaén, Spain)	Alexis Maldonado Ruiz
17:30 - 17:45	A study on the applications of additive manufacturing technologies in the furniture industry	Neslihan Top
17:45 - 18:00	Additive Manufacturing in Fashion Design	Nur Zeynep Cengiz Bulut
18:00 - 18:15	Design Game in 3D Printer and CNC Machine, Play and Learn Mathematics	Gözdegül Arik Karamik
18:15 - 18:30	Effect of build orientation and surface post process on the tribological properties of MJF manufactured PA12 parts	Beyza Gavcar
18:30 - 18:45	Investigation of Mechanical Properties of Sand Casting Molds Produced by Binder Jetting 3D Printer	Ahmet Can
18:45 - 19:00	Manufacturing and Characterization of WAAM-based Bimetallic Cutting Tool	Uğur Gürol
19:00 - 19:30	Low-dimensional Materials for 3D Printing	Michael Bozlar
19:30 - 19:45	Development of 3D printing in the food industry	Harm-Jan Steenhuis
20:00 - 20:30	Closing Ceremony	

22-23 November 2022

POSTER SESSION

Time	Title	Presenter
All Day	Co-Culture Bioprinting Of Tissue-Engineered Bone-Periosteum Biphasic Complex To Repair Critical-Sized Skull Defects In Rabbits	Qingfeng Li
All Day	Using additive manufacturing technology to produce clear aligners	Anita Fekonja
All Day	Machine Learning for predictive maintenance of Naval Propulsion Systems	Abbes Derardja
All Day	The development of a department within our company focused on the search for the applicability needs of 3D printing technologies in western Romania and offering the services that are needed	Andrei-George Zimbru
All Day	Our scientific experience with 3D-printed interim prosthetic dental materials	Ana Maria Cristiana Țăncu
All Day	Development of three-dimensional printed tablets with diclofenac sodium through hot melt extrusion and fused deposition modeling	Ioan Tomuta
All Day	Hydroxyapatite-collagen based scaffolds processed via robocasting	Laura-Mădălina Cursaru
All Day	Synthesis and characterization of wollastonite ceramics used in tissue engineering applications	Adrian Ionut Nicoara

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