

5th International Congress On 3d Printing (Additive Manufacturing) Technologies And Digital Industry (3D-PTC2021)

Machine Learning Session

03 June 2021		
10:00-12:20	Session Chairman: Dr. Gökhan Balcioğlu / Dr Gökhan Akel	1-Salon Kadriye
10:00-10:20	Invited Speaker: 3-Tier Architecture For Edge, Fog And Cloud Computing in The Implementation Of Iot Technologies, 53, (11:00-11:20 in Baku)	Vagif Gasimov And Shahla Aliyeva
10:20-10:40	Prediction of Fish Species with Machine Learning, 49	Kıyas Kayaalp And Sedat Metlek
10:40-11:00	Artificial Intelligence in Mechanical Engineering (Machine Learning),47	Hüseyin Fırat Kayıran
11:00-11:20	Design For Additive Manufacturing Based on Machine Learning: A Conceptual Framework, 7	Bekir Aksoy And Koray Özsoy
11:20-12:40	Buy-Sell Mechanism with Bi-Directional LSTM Networks: A Case Study Of Bist-30 Stocks,4	Burhan Duman And Ahmet Ali Süzen
11:40-12:00	Methods And Means Of Increasing The Accuracy Of Determining The State Of The Object, 61 (12:40-13:00 in Baku)	Lala Bekirova and Elvira Bunyatova
12:00-12:20	Adjustment Of Rod String Vibrations In Deep-Well Pumps Upon Impact, 65 (13:00-13:20 in Baku)	Javida Damirova
Koordinatör	Dr Aytaç Uğur Yerden / Gaye Kızılcıoğlu	

FDM Printing Session

03 June 2021		
12:30-14:30	Session Chairman: Dr. Kezban Candoğan / Dr. Selçuk Mıstıkoğlu	2-Salon Belek
12:30-12:40	Opening Speeches	Professor Kerim Çetinkaya
12:40-12:50	Protocol Speeches Professor Kamile Perçin Akgül	Rector; Antalya Akev University
12:50-13:10	Invited Speaker; 3D Printing Learning Module, EU Project, (10:50-11:10 in London)	Professor Ndy Ekere
13:10-13:30	Development Of Curriculum And Web-Based Module On 3d Printing Technology For Undergraduate Students, 12	Abdurrahim Temiz, Fatih Huzeyfe Öztürk, Murat Aydın, Hatice Evlen And Kerim Çetinkaya
13:30-13:50	Investigation of The Applications and Potential Of 3d Printers In Vocational And Technical Education: Iskenderun Vocational School Of Higher Education Case, 28	Mustafa Cakir Selçuk Mistikoglu
13:50-14:10	Additive Manufacturing Of Microfluidic Lab-On-A-Chip Devices, 57	Oğulcan Eren, Merve Begüm Çuhadaroğlu and Hüseyin Kürşad Sezer
14:10-14:30	Non-Planar Toolpath For Large Scale Additive Manufacturing, 38	Omer Eyercioglu Mehmet Aladag
Koordinatör	Dr.Koray Özsoy/Oğulcan Eren	

Soft Robot Session

03 June 2021		
15:00-17:20	Session Chairman: Dr. Savaş Dilibal / Dr Gözde Altug Peduk	3-Salon Boğazkent
15:00-15:20	Invited Speaker: Troubleshooting And Tackling The Common Problems In Vat Photopolymerization And FDM 3d Printing, 25 (15:00-15:20 in Helsinki)	Joonas Kortelainen, Mirka Leino And Tommi Lehtinen
15:20-15:40	Structural And Dynamic Analyses Of Mobile Transportation Robot, 5	<u>Neslihan Demir, H. Saygın Sucuoğlu, İsmail Böğrekci And Pınar Demircioğlu</u>
15:40-16:00		
16:00-16:20	Strengthening Effect Of Flooding In 3d Printed Porous Soft Robotics Scaffolds, 31	<u>Ozgun Selvi, Onat Halis Totuk, Selçuk Mıstıkoğlu And Ozan Arslan</u>
16:20-16:40	Numerical Analysis Of Displacements In A Disc Modeled From Aluminum Borate, 48	<u>Hüseyin Fırat Kayıran</u>
16:40-17:00	Modeling Of Maintenance Activities In A Multi-Site Company, 44	Khaoula Soltani, Messaoud Benzouai And Mohamed Djamel Mouss
17:00-17:20		
Koordinatör	Dr. Koray ÖZSOY/Doğuş Yüksel	

Design Session

03 June 2021		
17:30-19:30	Session Chairman: Dr. İsmail Bogrekci / Dr Ahmet Can	4-Salon Pednelissos
17:30-17:50	Invited Speaker : Optimization Of Cost And Deflection Of Wind Turbine Tower Using Taguchi Design Of Experiment, 52 (15:30-15:50 in London)	Justice Nwaneto And Emeka Amalu
17:50-18:10	Design And Production Of Multi Material 3D Printer For Soft Robotic Structural Elements, 33	Ozgun Selvi, Murat Yetim, Samed Yiğit Çırnık, Hasan Fehmi İlter, Muhammed Enes Akan
18:10-18:30	Data Mining Application For Financial Decision Optimization At Risk, 34	Enes Koçoğlu And Filiz Ersöz
18:30-18:0	Topology Optimization Of Mobile Transportation Robot, 6	Neslihan Demir, H. Saygın Sucuoğlu, İsmail Bogrekci And Pınar Demircioğlu
18:50-19:10	Determination Of Heavy Vehicle Air Dryer Test Bench Parameters And Evaluation Of Their Effects On Performance, 30	Fatih Mehmet Mesut Elmas And Ahmet Can
Koordinatör	Dr. Burhan Duman/ Abdurrahim Temiz	

Biomedical Session

04 June 2021		
10:00-12:20	Session Chairman: Dr. Cem Bülent Üstündağ / Dr. Hakan Yilmazer	5-Salon Kozan
10:00-10:20	Developing A Device To Provide Sterilization Of The Environment By Using UV-C Lamp, 20	<u>Hakan Maden</u> , <u>Bilal Özsarıkaya</u> , <u>İsmail Abdullah Özen</u> And <u>Mustafa Koçer</u>
10:20-10:40	Development Of PVA/Alginate Based Nano-Ag Doped Hydrogels For Advanced Wound Dressing By 3D Printing Method, 54	Sema Tuğçe Aydın, <u>Esra Yuca</u> And <u>Oğuzhan Gündüz</u>
10:40-11:00	Development Of Tissue Scaffolds Through 3D Bioprinting For Burn Wound Healing, 46	Pelin Tokat And Hakan Yilmazer
11:00-11:20	Investigation Of Cell Behavior On The 3D-Printed Neural Scaffolds By Electrical Stimulation, 43	Tuba Bedir, Songul Ulag, Kivanc Aydoğan, Ali Sahin, Betül Karademir Yılmaz, Yahya Guvenc, Michael Bozlar, Oguzhan Gunduz And Cem Ustundag
11:20-12:40	Developing Apparatus To Kill Bacteria And Viruses On The Surface with The Cleaning Robot, 19	<u>Hüsnü Koca</u> , <u>Bilal Özsarıkaya</u> , <u>Umut Yıldız</u> And <u>Yusuf Gök</u>
11:40-12:00	Compressive Strength Of DLP 3D Printed Various Micro Lattices For Bone Tissue Engineering, 8	Muhammed Enes Dokuz, Mustafa Aydın And Mesut Uyaner
12:00-12:20	Mechanical Problems And Solutions During 3d Printing Based On Fdm Technology, 59 (13:00-13:20 in Baku)	Aytadj Allahverdiyeva And Kalam Malikov
Koordinatör	<u>Dr Okan ORAL</u> / Hüseyin Kaygısız	

04 June 2021		
13:30-15:30	Session Chairman: Dr. Hanane Zermane / Dr. Ahu Çelebi (11:30-13:30 in Betna)	6-Salon Selge
13:30-13:50	Invited Speaker: Issues Of Cybersecurity In 3d Printing , 51 (13:30-13:50 in Kyiv)	Stanislav ilevskiy And Serhii Yevseiev
13:50-14:10	Implementation Of LBP Descriptor And Machine Learning Classifiers For Face Recognition, 3 (11:50-12:10 in Betna)	Hanane Zermane, Abbes Derardja And Djamel Touahar
14:10-14:30	Digital Twin Simulation Of IoT-Based Additive Manufacturing Machine's For Error Detection, 55	Burhan Duman and Ahmet Ali Süzen
14:30-14:50	Smart Door Lock Design With Internet of Things, 26	Samed Kaya, Elmas AŞkar Ayyildiz and Mustafa Ayyildiz
14:50-15:10	A Study On Thermal Behaviour Of A 3d Printer And Extruded Material with Thermal Imaging Method, 10	Serdar Arhan, Semih Yılmaz, Kerim Deniz Kaya and Kubilay Bayramoğlu
15:10-15:30	Methods And Means Of Increasing The Accuracy Of Determining The State Of The Object, 61 (12:40-13:00 in Baku)	Lala Bekirova and Elvira Bunyatova
15:30-15:50	Adjustment Of Rod String Vibrations In Deep-Well Pumps Upon Impact, 65 (13:00-13:20 in Baku)	Javida Damirova
Koordinatör	Dr.Kıyas KAYAALP/ Nihan Özdemir	

Sektor Session

04 June 2021		
16:00-18:00	Session Chairman: Dr. Pınar Demircioğlu / Dr. Lala Bekirova (17:00-19:00 in Baku)	7-Salon Düden
16:00-16:15	İnfotron; Additive Manufacturing 2,0	Uğur Yurttaş
16:15-16:30	Bellyfeel Media Limited; Interactive Online Resources Of The 3D Printing Project (14:15-14:30 in London)	Krishna Stott
16:30-16:45	Form Additive; Form Additive - University Collaboration Applications	Sadık Sinan Kosumcu
16:45-17:00	+90; The Role of Digital Factories In Product Development, End Use Parts And Supply Chain	Utku Demirkan
17:00-17:15	digiMODE; Stages of Design for Additive Manufacturing	Zeynep Emir
17:15-17:30	3D3 Teknoloji; Development and Production of Filament Material for Technical Requirements	Berk Giray
17:30-17:45	Anka Analitik; The Effect of Additive Manufacturing on the 4th Industrial Revolution: The Case of China	Gökhan Savaş
17:45-18:00	Usmekatronik; Design And Construction Of FDM Based H-Bot 3D Printers For Educational Purpose In 3D Printing Project	Hüseyin Kaygısız

Koordinatör	Dr. Burhan DUMAN/ Dr Hatice Evlen	
-------------	-----------------------------------	--

Deep Learning Session

05 June 2021		
10:00-12:20	Session Chairman: Dr. Binnur Sağbaş / Dr. Özgür Cengiz	8-Salon Aspendos
10:00-10:20	Development Of Multi-Material Components Via Robotic Wire Arc Additive Manufacturing, 22	Batuhan Turgut, Uğur Gürol, Nurten Güleçyüz, Savaş Dilibal And Mustafa Koçak
10:20-10:40	Fractal Geometry Applications To Design And Manufacturing Of 3D Printed Ceramics: A Preliminary Study, 41	Ozgur Cengiz and Deniz Uluisik
10:40-11:00	Additively Manufactured Ti6al4v Lattice Structures for Biomedical Applications, 14	Doruk GÜrkan and Binnur Sağbaş
11:00-11:20	Investigation Of Products Developed with 3D Printers In The Covid-19 Epidemic, 16	Cansu Kardaş and Hüseyin Rıza Börklü
11:20-12:40	Development Of Touch Flow Controlled Plastic Faucet System For Water Treatment Device, 21	Hakan Maden, İsmail Abdullah Özen, Yusuf GÖk and Mustafa Koçer
11:40-12:00	Comparison Of Optimization Methods For Additive Manufacturing And Machining Methods, 24	Ahu Celebi, Halil Tosun and Ali Çağlar Önçağ
12:00-12:20	Online Diagnostics And Monitoring Of Sensors with DCS System For Explosive Dangerous Objects, 63 (13:00-13:20 in Baku)	Samad Huseynov
Koordinatör	Dr İshak Ertuğrul/ Gülce Dölkeleş	

Data Session

05 June 2021		
12:30-14:30	Session Chairman: Dr. Filiz Ersöz / Dr. Fatih Vehbi Çelebi	9-Salon Side
12:30-12:50	Intervention Strategies for Students with Various Types Of Intelligence Taking Project/Studio Courses In Design Education, 56	Mahmut Celaleddin Kaleli and Ahmet Zeki Turan
12:50-13:10	A Propeller Blade Manufacturing By Hybrid Additive Manufacturing System, 35	Omer yercioglu and Mehmet Aladag
13:10-13:30	Improving Efficiency, Productivity, and Printing Size in FFF 3D Printing System by Using Collaborative Independent 3D Printers: A Survey, 32	Ahmed Merzah and Fatih Vehbi Çelebi
13:30-13:50	Solutions and preventions to botnet attacks and other risks in IoT, 58 (14:30-14:50 in Baku)	Mahammad Yusifov and Lala Bakirova
13:50-14:10	Autonomous control of small unmanned aerial vehicles, 60 (14:50-15:10 in Baku)	Orxan Aliyev
14:10-14:30	Risk Perception And Data Mining In Iron And Steel Sector, 27	Taner Ersöz and Bennur Bulut

14:30-14:50	Intelligent Control System For Speed And State Of Object (Trains), 62 (16:40-17:00 in Baku)	Lala Bakirova And Aladdin Bayramov
Koordinatör	Dr.Koray Özsoy / Dr Murat Aydın	

Material Session

05 June 2021		
15:00-17:40	Session Chairman: Dr. Ömer Eyercioğlu / Dr. Mustafa Aydın	10-Salon Lara
15:00-15:20	Investigation Of Thermoelastic Damping In Mems Resonator, 11	Ishak Ertugrul And Osman Ulkir
15:20-15:40	Additive Manufacturing Of Titanium Alloys For Biomedical Applications, 15	Beyza Gavcar and Binnur Sağbaş
15:40-16:00	Finishing of DMLS-Additively Manufactured Titanium Parts by Abrasive Flow Machining, 39	Omer Eyercioğlu, Kursad Gov, Adem Aksoy and Mehmet Aladag
16:00-16:20	Effect Of Wire Electrical Discharge Machining On The Surface Of Electron Beam Melted Additively Manufactured Nickel-Titanium Alloy, 18	Gozde Altug Peduk and Savas Dilibal
16:20-16:40	A Beneficial Material Identification Method For 3d Printing: Attenuated Total Reflection Spectroscopy, 23	Serap Çelen
16:40-17:00	Fabric and Production Defect Detection in the Apparel Industry Using Data Mining Algorithms, 37	Taner Ersöz, Hamza Zahoor and Filiz Ersöz
17:00-17:20	In-Situ Synthesis Of 3d-Printed Magnetic Nanoparticles Embedded Photopolymers, 29	Mehmet Fahri Saraç
17:20-17:40	Fabrication, Characterization and Investigation of Antibacterial Activity of Propolis Substituted Sodium Alginate Tissue Scaffolds Using Three-Dimensional (3D) Printing Technology, 42	Kubra Arancı, Muhammet Uzun, Sena Su, Sumeyye Cesur, Songul Ulag, Al Amin, Mehmet Güncü, Burak Aksu, Sevgi Kolaylı, Jorge Silva, Denisa Ficai, Anton Ficai, Oguzhan Gunduz and Cem Ustundag
17:40-18:00	The Impact Of The Environment On The Use Of Sensors, 64 (18:00-18:20 in Baku)	<u>Ozal Feyzili</u>
Koordinatör	Dr. Kıyas Kayaalp / Fatih Huzeyfe Öztürk	