



İZMİR DEMOCRACY UNIVERSITY
IES'24 INTERNATIONAL ENGINEERING SYMPOSIUM
PROGRAM

OPENING CEREMONY	
12:30	Moment of Silence and National Anthem
OPENING SPEECH	
12:30-12:50	Prof. Dr. Murat Emre KARTAL (Symposium Chair)
	Prof. Dr. Bedriye TUNÇSİPER (Rector-Honorary President)

12:50-13:50
LUNCH TIME

MEETING INFORMATION (13:50-19:40)	
Meeting Link: https://teams.microsoft.com/l/meetup-join/19%3afG8AOkEkjPBVxhZ0V53jBddxMXKIFiGKRKt6zbu5px81%40thread.tacv2/1732741200630?context=%7b%22Tid%22%3a%228c201366-e633-42fe-984d-3074b8e1b104%22%2c%22Oid%22%3a%227cad7154-8047-4d2f-8944-8ba6c7bdc227%22%7d	
Meeting ID 367 863 747 866	
Password: Fr7LJ9eN	

KEYNOTE SESSION-I	
13:50-14:05	Adriana SALLES, University of Minho, Portugal Digital Tools for Circular Economy

	ID	HALL I SESSION-I (ONLINE)
14:05-14:20	542	Comparative Analysis of Construction Project Delivery Systems in Achieving Sustainable Development Goals Mulham Masri
14:20-14:35	546	Geri Dönüştürülmüş İpliklerden Elde Edilen Örme Kumaş Yapıları Ali Can Serçek, Özlem Kayacan
14:35-14:50	570	Secure Communication and Key Management with Trusted Platform Modules (TPM2.0) Technology in Public Transportation Payment System Mehmet Burak Aydın, Ali Semih Yılmaz, Melek Esemem Ertaş, Mehmet Emin Dalkılıç

14:50-15:00
COFFEE BREAK



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KEYNOTE SESSION-II

15:00-15:15	Dr. Ayşe Köse, KU Leuven, Belgium Engineering the Future of Osteochondral Tissue Regeneration: The bridge between hydrogel technology and organ on a chip models
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	ID	HALL I SESSION-II (ONLINE)
15:15-15:30	558	A Multi-Criteria Unrelated Parallel Machine Scheduling Problem With Sequence-Dependent Setup Time Oğuz Özkaya, Zeynep Sude Bezci, Ayçin Göymen, Kıvanç Ay, Ömer Faruk Yeltepe, Sim Kargoğlu, Hande Öztop
15:30-15:45	556	Product Family and Machine Group Assignment and Scheduling Problem Kartal Aydınli, Melisa Demir, Yunus Kızıl, Sarp Yalçıntaş, Damla Kızılay
15:45-16:00	541	Mathematical Modeling Approaches for the Multiple Travelling Repairman Problem İclal Bağcı, Şeyda Topaloğlu Yıldız
16:00-16:15	547	A Hybridisation of Integer Programming And Hybrid Metaheuristic Algorithms for Static & Dynamic Capability-Based Machine Layout Problems Kemal Subulan, Adil Baykasoğlu, Alper Hamzadayı
16:15-16:30	563	Generative Design-Based Automated Model Updating for Damage Detection: Application on a Cantilever Beam with Various Damage Scenarios Fatih Yesevi Okur

16:30-16:45
COFFEE BREAK

KEYNOTE SESSION-III

16:45-17:00	Dr. Mahsa MOLOODPOOR Energy Systems and Optimization Techniques
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	ID	HALL I SESSION-III (ONLINE)
17:00-17:15	577	Computation of Energy Decompositions and 3-D Electron Densities of the Human DNA and RNA Nucleotides Zehra Verberi, Gizem Özgür, Serhan Yamaçlı
17:15-17:30	580	İfrared Kamera Görüntülerinden Temassız Solunum Takip Sistemi Geliştirilmesi ve Test Edilmesi Sibel Babur Aksu, Metin Yıldız, Galip Akhan
17:30-17:45	537	Two Axis Geometric Measurement Station with Camera Taner Müftüoğlu, Murtaza Cicioğlu



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17:45-18:00	552	An Automated Gear Quality Control System For Defects Detection Using Machine Vision Pevril Demir Arı, Fatih Akkoyun
18:00-18:15	538	Artificial Neural Network Modeling to Enhance Sound Quality in Coated Piano Soundboards Hilal Singer
18:15-18:30	560	The Effect of End Bearing Pile Loading on A Thin Rock Layer Suleiman Khatrush, Mohammad Ben-Amer

18:30-18:40
COFFEE BREAK

	ID	HALL I SESSION-IV (ONLINE)
18:40-18:55	531	Production and Characterization of FeCrCoMnNi High-Entropy Alloy by Mechanical Alloying Method Harun Mert İlbeyli, Türker Türkoğlu, Ahmet Çağrı Kılınc, Sare Çelik
18:55-19:10	532	Karbon/Cam Fiber Takviyeli Epoksi Örgü Kompozit Malzemelerinin Çekme Yüğü Altındaki Davranışlarının Nümerik Analiz ile Belirlenmesi Demirali Sevenser, Engin Erbayrak
19:10-19:25	534	Development and Design of a Impact Testing System for Energy Absorption Analysis İlker Eren
19:25-19:40	553	An Inexpensive Tensile Test Machine Pevril Demir Arı, Fatih Akkoyun, Mustafa Burak Günay

19:40-20:30
SYMPOSIUM DINNER



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	ID	HALL II SESSION I (ONSITE)
14:05-14:20	536	AeroStep: Treyler Teknolojisinde Güvenlik ve Verimliliği Artıran Yenilikçi Merdiven Tasarımı Ferhat Keçelioğlu, Hasan Mertcan Muslu
14:20-14:35	557	Soil-Structure Interaction: A Critical Component in the Design Process Ali Mortazavi, Esra Güneri, Selin Baş, Kamil Efe Arslan
14:35-14:50	561	Nesnelerin Yapay Zekâsı Tabanlı Akıllı Sokak Aydınlatma Uygulaması Semih Aşçı, Emre Koçak, Hakkı Soy

14:50-15:00
COFFEE BREAK

	ID	HALL II SESSION II (ONSITE)
15:00-15:15	571	Battery Management System and Isolation Monitoring Circuit in Electric Vehicles Armin Razmgiri, Oguzhan Gunal, Hakan Akca
15:15-15:30	543	Design of Position Tracking Controller for Electro-Hydraulic Actuators: Elimination of Velocity Measurements Sule Taskingollu, Enver Tatlicioglu, Erman Selim
15:30-15:45	574	Enhancing Transient Stability of Power Systems via Incorporating Energy Storage Systems Umutcan Yigit, Irem Saka, Serhat Obuz, Enver Tatlicioglu
15:45-16:00	575	Distributed Sliding Mode Control Strategy for Transient Stability in Cyber-Physical Power Systems Tugce Dalyan, Irem Saka, Serhat Obuz, Enver Tatlicioglu
16:00-16:15	572	Position Control of Super Coiled Polymer Actuators with a PID-Based Controller Cagri Hindistan, Enver Tatlicioglu, Erman Selim
16:15-16:30	565	Low-Cost Electronic Nose System for Food Freshness Classification Huseyin Deniz Ozturk, Sule Taskingollu, Yavuz Ozturk, Erkan Zeki Engin

16:30-16:45
COFFEE BREAK

KEYNOTE SESSION-IV	
16:45-17:00	Dr. Ömer Öztürkoğlu, Birmingham City University, UK Engineering the Future of Warehousing: Aisle Innovation to Sustainable Digitalization



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	ID	HALL II SESSION III (ONSITE)
17:00-17:15	567	PCB Based Actuator Deployed Planar Mechanism Design İsmail Ünlü, Kubilay Şengül, Ömer Taşpınar, Levent Çetin
17:15-17:30	559	Makine Öğrenmesi Tabanlı Web Uygulaması ile Atlar için Hayatta Kalma Tahmini Seda Şahin, Mert Gürpınar
17:30-17:45	573	Kaya Türü Sınıflandırması İçin Makine Öğrenmesi Yaklaşımı Seda Şahin, Ali Kömelek
17:45-18:00	530	Performance comparison of PID tuning methods for control of an evaporator Mert Sinan Turgut, Oğuz Emrah Turgut
18:00-18:15	544	Yığma Yapılarda Deprem Sonrası Hasar Analizi Ufuk Akın, Elif Çağda Kandemir

KEYNOTE SESSION-V

18:15-18:30	Dr. Esra Aycan Beyazıt The Revolution of Artificial Intelligent in Telecommunication
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18:30-18:40
COFFEE BREAK

	ID	HALL II SESSION IV (ONSITE)
18:40-18:55	550	Development of Anti-HE4 Conjugated Melanin Nanoparticles Modified Quartz Tuning Fork (QTF) Based Immunosensor For the Diagnosis of Ovarian Cancer Fahriye Arslan, Gizem Kaleli Can
18:55-19:10	555	Development of Modular Photodynamic Therapy Systems Almir Cam, Arcan Balkir, Resul Tahtacı, Yunus Emre Ersoy, Erman Kibris, Mehmet İhsan Hekimhan, Muhammed Ucuncu, Ecem Saygılı
19:10-19:25	576	Kardiyak İskemi Hastalığının Erken Teşhis İçin Hipoksantin Tespitine Yönelik Melanin ile Modifiye Edilmiş Kağıt Tabanlı Biyosensör Geliştirilmesi Safiye Betül Bulut, Mislina Oğultarkan, Gizem Kaleli Can
19:25-19:40	545	Turkish Large Language Models for Dialogue Summarization Task Osman Büyük

19:40-20:30
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Meeting ID: 387 867 979 788

Password: HA33h8c9

	ID	HALL III SESSION-I (ONLINE)
15:00-15:15	540	Kentsel Katı Atık Geri Dönüşüm Sisteminde Simülasyon Uygulaması Merve Ash Ergün, Sinem Özkan, Tuğba Keskin Gündoğdu
15:15-15:30	564	Deep Learning Based Air Temperature Prediction for Izmir Anıl Utku, Sema Kayapınar Kaya
15:30-15:45	579	The Impact of Dam-Foundation Interaction Models on The Behavior of RCC Dams Muhammet Ensar Yiğit, Murat Emre Kartal, Fethi Şermet, Emin Hökelekli
15:45-16:00	539	Sentiment Analysis and Automatic Response Generation in E-Commerce Comments Ayşe Macit, Seda Postalcıoğlu
16:00-16:15	562	A Compressed Sensing Solution to Super Resolution of System Matrices in Magnetic Particle Imaging Vildan Atalay Aydın
16:15-16:30	548	Enhancing CCTV Image Quality for Improved Classification in Surveillance Systems Using Deep Learning and Super-Resolution Models Ulaş Özbent, Yılmazcan Yıldızbayrak, Başak Esin Köktürk Güzel

16:30-16:45
COFFEE BREAK

KEYNOTE SESSION-IV

16:45-17:00

Dr. Amara Tariq, Mayo Clinic Arizona, USA
Domain-specific LLM Development and Evaluation-A Case Study for Prostate Cancer



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	ID	HALL III SESSION-II (ONLINE)
17:00-17:15	566	Wearable Technology in Physiotherapy: A Review of Engineering Studies Kemal Avcı
17:15-17:30	551	Life Cycle Assessment for Biogas Production Enes İçer, Merve Aslı Ergün, Tuğba Keskin-Gündoğdu
17:30-17:45	578	Numerical Design And Analysis Of Wheel Rim Made From Different Materials Saim Kural, Dilek Arslan
17:45-18:00	582	Investigation of stresses occurring as a result of forces applied to the Genova mechanism wheel under certain boundary conditions using the finite element method Mustafa Murat Yavuz

19:40-20:30

SYMPOSIUM DINNER