

Time	Main Hall	Hall 1	Hall 2	Hall 3	Hall 4	Hall 5	Hall 6
09:30-09:40	OPENING REMARKS (Main Hall)						
09:40-10:00	WELCOME ADDRESS Prof. Dr. F. Seniha Güner, Director of Graduate School (Main Hall)						
10:00-10:30	RECTORAL ADDRESS Prof. Dr. Hasan Mandal, Rector of ITU (Main Hall)						
10:30-10:50	SPONSOR PRESENTATION (Main Hall)						
10:50-11:00	Transition: Main Hall to Halls 1-6						
11:00-12:00	Chair: Assoc. Prof. Dr. Özge Özdemir Co-Chair: Dr. Ayca Kızılkaya	Chair: Prof. Dr. Abdullah Aydoğan Co-Chair: Res. Asst. Asude Bolat	Chair: Prof. Dr. M. Berke Yelten Co-Chair: Res. Asst. Hatice Tuğba Karayama	Chair: Asst. Prof. Dr. Ö. Tuğrul Turan Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu	Chair: Asst. Prof. Dr. Ramazan Keyikoğlu Co-Chair: Res. Asst. Berker Pandir	Chair: Asst. Prof. Dr. İmdat As Co-Chair: Dr. Serhat Boynukalın	Chair: Assoc. Prof. Dr. Çiğdem Altın Gümüüşsoy Co-Chair: Res. Asst. Tuğba Yıldız
	AEROSPACE, MECHANICAL & MANUFACTURING <i>Aerospace and Aeronautical Sciences</i>	MATERIALS, CHEMISTRY & PROCESS ENGINEERING <i>Chemical and Process Engineering</i>	ELECTRICAL, ELECTRONICS, COMPUTING & MATHEMATICAL SCIENCES <i>Electrical Engineering and Power Systems</i>	CIVIL, EARTHQUAKE, CONSTRUCTION & TRANSPORTATION <i>Civil and Structural Engineering</i>	SUSTAINABILITY, ENVIRONMENT, ENERGY & EARTH SCIENCES <i>Sustainability and Climate Action</i>	ARCHITECTURE, URBAN PLANNING & HERITAGE <i>Architectural Design Computing</i>	MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Business Administration and Industrial Engineering</i>
	11:00-11:15 "Optical Navigation and Direction-Based Attitude Estimation for Cisunar Spacecraft Using Camera Measurements" Mustafa Yılmaz • Istanbul Technical University	11:00-11:15 "A Versatile NH ₂ -MWCNTs Modified MIP Based Electrochemical Sensor for AZA Detection in Biological, Pharmaceutical, and Environmental Matrices" Zeynep Aydemir • Istanbul Technical University	11:00-11:15 "SDR-Based Comparative Performance Analysis of MVR and ESPRIT for Direction-of-Arrival Estimation" Mustafa Yasın ATEŞ • Istanbul Technical University	11:00-11:15 "Use of Recycled Concrete Powder as Cement Substitute" Kadircan Varan • Istanbul Technical University	11:00-11:15 "Alignment Between IFC Performance Standards and Turkish Environmental and Social Legislation" Aziz Atan • Istanbul Technical University	11:00-11:15 "Women's Mobilization at the Intersection of Home and Street: An Analysis of Martkoşu Street" Gizem Saka • Istanbul Technical University	11:00-11:15 "Out of Sight, Not Out of Mind: May Brand Activism Morally Restore Hedonic Consumption Restraint under Survivor Guilt?" Aleya Kütük • Istanbul Technical University
	11:15-11:30 "Flow at a Wing-Body Junction Under a Discrete Vortex Gust" Oihan Huzalan • Istanbul Technical University	11:15-11:30 "Techno-Economic Analysis of Bio-Oil Reforming for Green Hydrogen Production: A Comparative Study of SR, SESR and OSR" Doruk Kirbay • Istanbul Technical University	11:15-11:30 "Design and Calibration of a Wideband COTS Transceiver for Near-Field Microwave Imaging" Yunus Baykal • Istanbul Technical University	11:15-11:30 "Causes of Failure for a Mechanically Stabilized Earth Wall, A Case Study" Kubra Yıldız • Istanbul Technical University	11:15-11:30 "Performance Based Evaluation of Wastewater Treatment Plants Using Carbon and Water Footprint" Hüdanur Şefik • Istanbul Technical University	11:15-11:30 "Low-Cost Housing Solutions for the Housing Crisis: The Case of Unilever Vita Worker Houses in Istanbul" Didem Çalışkan Yıldız • Istanbul Technical University	11:15-11:30 "An Improved Revenue Forecasting Model for Aviation using Social Media Data" Zeynep Uzar Bayezit • Istanbul Technical University
11:30-11:45 "Computational and Experimental Performance Analysis of a Floating Ring Seal Under High-Speed Conditions" Muhammed Kerem Sarı • Istanbul Technical University	11:30-11:45 "Synthesis of CuInSe/ZnS Quantum Dots and Investigation of Dye Adsorption Properties for Waste Treatment" Elif Çeltik • Istanbul Technical University	11:30-11:45 "Noise-Augmented Frequency-Domain 1D CNN for Rotating Machinery Fault Diagnosis" Şafiq Mohamed Ismail • Konya Technical University	11:30-11:45 "Evaluation of Linear and Nonlinear Analysis of Concentrically Braced Steel Frames According to TSCB2018 and ASCE41" Servan Cıplak • Istanbul Technical University	11:30-11:45 "Integrating Geospatial Climate Risk and Circular Economy Performance: A Resilience-Based Framework for Designing Sustainable Wastewater Treatment Plants in Türkiye" Muratcan Başkurt • Istanbul Technical University	11:30-11:45 "Reading the Production of Space by Hegemonic Forces Through the Boundaries of Dolmabahçe Avenue" Özge Özgürçek • Istanbul Technical University	11:30-11:45 "Recommendation for Türkiye: Revenue-Based Crowdfunding" Mehmet Fatih Çiftçi • Istanbul Technical University	
11:45-12:00 "Hybrid Machine Learning Surrogate Model for Rotorcraft Performance Prediction and Optimization" Halil İbrahim Başpınar • Istanbul Technical University	11:45-12:00 "Biogas Production from Primary Sludge in a Semi-Pilot-Scale Anaerobic Digester under Semi-Continuous Feeding Conditions" Ayman Alaksh • Istanbul Technical University	11:45-12:00 "A 28-Gb/s PAM-4 Inductorless Transimpedance Amplifier with 40-dB Dynamic Range for High-Capacitance Photodiodes" Muhammed Emin Tümbak • Istanbul Technical University	11:45-12:00 "Mechanical and Environmental Performance of Concrete Incorporating GGBS and Pumice Powder" Mahdi Shakerifard • Istanbul Technical University	11:45-12:00 "Investigating the Qualitative and Quantitative Savings of BIM through the Building Design Process Based on a Case Study" Buket Alpmam • Istanbul Technical University	11:45-12:00 "Investigating the Qualitative and Quantitative Savings of BIM through the Building Design Process Based on a Case Study" Ayşeşül Öruçoğlu Aşkin • Istanbul Technical University	11:45-12:00 "The Impact of Role Ambiguity on Employee Motivation in Hybrid Projects: A Study in the Banking Sector" Hüseyin Berkay Horlu • Istanbul Technical University	
12:00-13:00	KEYNOTE 1 Prof. Dr. Berk Canberk (50 min talk + 10 min Q&A, Main Hall)						
13:00-14:00	LUNCH BREAK						
14:00-15:00	Chair: Assoc. Prof. Dr. Baha Zafer Co-Chair: Dr. Ayca Kızılkaya	Chair: Prof. Dr. Devrim Barış Kaymak Co-Chair: Res. Asst. Asude Bolat	Chair: Prof. Dr. Ece Olcay Güneş Co-Chair: Res. Asst. Hatice Tuğba Karayama	Chair: Assoc. Prof. Dr. Abdullah Can Zulfikar Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu	Chair: Asst. Prof. Dr. Ramazan Keyikoğlu Co-Chair: Res. Asst. Berker Pandir	Chair: Assoc. Prof. Dr. Can Uzun Co-Chair: Dr. Serhat Boynukalın	Chair: Dr. Kenan Mengüç Co-Chair: Res. Asst. Tuğba Yıldız
	AEROSPACE, MECHANICAL & MANUFACTURING <i>Aerospace and Aeronautical Sciences</i>	MATERIALS, CHEMISTRY & PROCESS ENGINEERING <i>Chemical and Process Engineering</i>	ELECTRICAL, ELECTRONICS, COMPUTING & MATHEMATICAL SCIENCES <i>Electrical Engineering and Power Systems</i>	CIVIL, EARTHQUAKE, CONSTRUCTION & TRANSPORTATION <i>Civil and Structural Engineering</i>	SUSTAINABILITY, ENVIRONMENT, ENERGY & EARTH SCIENCES <i>Sustainability and Climate Action</i>	ARCHITECTURE, URBAN PLANNING & HERITAGE <i>Architectural Design Computing</i>	MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Business Administration and Industrial Engineering</i>
	14:00-14:15 "Multibody Dynamics Analysis of Helicopter Ground Resonance and Determination of Optimum Rotor Damper Parameters" Fatih ÇAKIR • Istanbul Technical University	14:00-14:15 "Fabrication and Characterization of Cedar Extract-Loaded 3D-Printed Gelatin/Sodium Alginate Scaffold for Bone Tissue Engineering Application" Seba Alturkmani • Istanbul Technical University	14:00-14:15 "An Ultra-Compact Bi-directional Ka-Band Front-End Module Supporting Full 5G FR2 Coverage (24-30 GHz)" Hüseyin Cahit Erbil • Istanbul Technical University	14:00-14:15 "Development and Implementation of Energy-Dissipating Connection Details for Precast Reinforced AAC Panel Walls Subjected to Lateral Impact and Blast Loads" Servan DUMAN • Istanbul Technical University	14:00-14:15 "The Effect of Facade Orientation on Lighting Automation and Energy Efficiency in Educational Buildings: The Case of ITU Energy Institute" Zeynep Demir • Istanbul Technical University	14:00-14:15 "Architectural Design Knowledge in Jury Critiques: The Cyranoid Model" Gökhan KIYICI • Istanbul Technical University	14:00-14:15 "Political-Economic Mechanisms of Women's Organisational Exclusion in Turkish Context" Hümeysra Nur Hatipoğlu • Istanbul Technical University
	14:15-14:30 "Numerical Study on the Performance of Biplane Plunging Airfoils" Eren Bavier Kaya • Istanbul Technical University	14:15-14:30 "Catechol-functionalised supramolecular structures for remediation of micropollutants" Ekaterina Kozlova • Istanbul Technical University	14:15-14:30 "Design and ASIC Implementation of a Hardware Security Shield on a Risc-V Soc" Oğuzhan Vatanserver • Istanbul Technical University	14:15-14:30 "Determinants of Electric Vehicle Adoption in Türkiye: A Discrete Choice Analysis" Muhammed Yusuf Kahveci • Gebze Technical University	14:15-14:30 "Energy Transition and Capital Reallocation in the European Renewable Energy M&A Market" Duygu Genç • Istanbul Technical University	14:15-14:30 "Reconfiguring Sacred Space and Urban Circulation: The Temple-Church Conversion at Aphrodisias" İdil Özenel • Istanbul Technical University	14:15-14:30 "The Impact of Free Public Transport on Elderly Mobility, Healthcare Access, and Mental Health: A Regression Discontinuity Analysis" Ferhanur Sahin • Istanbul Technical University
14:30-14:45 "Performance Comparison of Regression Based Machine Learning Models for Aerodynamic Prediction on PALMO Dataset" Hakan Mavi • Eskişehir Osmangazi University	14:30-14:45 "Ultrasound-Assisted Extraction of Phenolic Compounds from Cedar Bark Using Response Surface Methodology" Setenay Firat • Istanbul Technical University	14:30-14:45 "Implementation of a CCSDS Compliant Telecommand Decoder Subsystem with the Acon-AEAD128 Lightweight Authenticated Encryption Algorithm" Arda Hüseyin Özalp • Istanbul Technical University	14:30-14:45 "Preliminary Tests of Beam-Column Connection in Precast RC Structures Equipped with Energy Dissipating Fuse Elements" Muhammed Fatih Ergün • Istanbul Technical University	14:30-14:45 "Life Cycle Assessment of Constructed Wetlands for Building-Level Greywater Treatment and Reuse in Istanbul" Yeşim Umar • Istanbul Technical University	14:30-14:45 "Waste Management and Urban Cleaning in the Early 20th-Century Istanbul" Eda Nur Dalıcı • Istanbul Technical University	14:30-14:45 "An Intuitionistic Fuzzy Marcos Approach for IT Personnel Selection with Human-AI Collaboration Criterion" Şengül Timuray • Istanbul Technical University	
14:45-15:00 "Investigation of the Effect of Hinge Rigidity on the Aeroelastic Characteristics of Folding Aircraft Wings" Gorkem Dere • Istanbul Technical University	14:45-15:00 "Machine Learning-Enhanced Layer Of Protection Analysis: Random Forest-Based Prediction Of Independent Protection Layer Effectiveness For Process Safety" Sevgi Erişik • Istanbul Technical University	14:45-15:00 "A 2-25 GHz GaAs MMIC Distributed Low-Noise Amplifier with an Integrated Bypass Function" Veli Hakan • Istanbul Technical University	14:45-15:00 "Strength Activity Index (SAI) Assessment of clay reactivities under different calcination temperatures" Enes Hamidoğlu • Istanbul Technical University	14:45-15:00 "Operational Building Energy Modelling and Improvement Strategies within a Life Cycle Perspective: A Residential Case Study" Abdurrahim Baştuğ • Istanbul Technical University	14:45-15:00 "Dirty Scales, Uncanny Assemblages: The Ontology of Representation in Saizlere" Erdem Karaca • Istanbul Technical University	14:45-15:00 "Understanding the Drivers of Sharing Economy Use: A Conceptual Structural Equation Modeling Framework" İlayda Şahin • Istanbul Technical University	
15:00-16:00	Chair: Asst. Prof. Dr. Ali Tatar Co-Chair: Dr. Ayca Kızılkaya	Chair: Prof. Dr. Devrim Barış Kaymak Co-Chair: Res. Asst. Asude Bolat	Chair: Prof. Dr. Serdar Özoğuz Co-Chair: Res. Asst. Hatice Tuğba Karayama	Chair: Asst. Prof. Dr. Ö. Tuğrul Turan Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu	Chair: Asst. Prof. Dr. Ebru Acuner Türet Co-Chair: Res. Asst. Berker Pandir	Chair: Prof. Dr. Hatice Sözer Co-Chair: Dr. Serhat Boynukalın	Chair: Dr. Kenan Mengüç Co-Chair: Res. Asst. Tuğba Yıldız
	AEROSPACE, MECHANICAL & MANUFACTURING <i>Aerospace and Aeronautical Sciences</i>	MATERIALS, CHEMISTRY & PROCESS ENGINEERING <i>Chemical and Process Engineering</i>	ELECTRICAL, ELECTRONICS, COMPUTING & MATHEMATICAL SCIENCES <i>Electrical Engineering and Power Systems</i>	CIVIL, EARTHQUAKE, CONSTRUCTION & TRANSPORTATION <i>Civil and Structural Engineering</i>	SUSTAINABILITY, ENVIRONMENT, ENERGY & EARTH SCIENCES <i>Sustainability and Climate Action</i>	ARCHITECTURE, URBAN PLANNING & HERITAGE <i>Architectural Design Computing</i>	MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Business Administration and Industrial Engineering</i>
	15:00-15:15 "Tip Region Enhancement of a Pumpjet Propulsor with Circumferential Casing Grooves for Cavitation Reduction" Sefa Gönül • Istanbul Technical University	15:00-15:15 "aza-BODIPY as Nitramin Sensor" Bleda Can Sadıkoğulları • Istanbul Technical University	15:00-15:15 "From Classical Machine Learning to CNN-Transformer: A Scalability-Focused Comparative Study for Specific Emitter Identification" Alp Özcan • Istanbul Technical University	15:00-15:15 "Effect of Calcination Temperature on the Activity Index of Blended Clay Cements in Terms of Capillary Absorption" Nur Demir • Istanbul Technical University	15:00-15:15 "Embedding Sustainability into Interdisciplinary Graduate Programs: A Comparative Curriculum Analysis of Selected Programs from EELISA Universities" İnci Çelikkbaş • Istanbul Technical University	15:00-15:15 "Reimagining School as a Spatial and Social Network: A Multiple Case Study of Innovative Learning Environments" Pinar Gökbayrak Yavuz • Istanbul Technical University	15:00-15:15 "Working Capital as a Transmission Mechanism from Macro-Financial Shocks to the Labor Share: Firm-Level Evidence from Turkey" Muhammed Akif Dokumacı • Istanbul Technical University
	15:15-15:30 "Space-Based Orbit and Attitude Estimation of Resident Space Objects Using Star Tracker" Ceylan Seval İnan • Istanbul Technical University	15:15-15:30 "Laboratory-Scale Cultivation of Chlorella minutissima Microalgae Using Municipal Wastewater from Different Advanced Biological Wastewater Treatment Plants: A Comparative Study" Elif Bostanoğlu • Istanbul Technical University	15:15-15:30 "A Radix-4 Decimation-in-Time Butterfly Unit Design with Optimized Floating-Point Implementations" İbrahim Taştan • Istanbul Technical University	15:15-15:30 "A Proposal For A Preliminary Cost Estimation Model At The Conceptual Stage Of Construction Projects" Serdar Tannuklu • Istanbul Technical University	15:15-15:30 "Sustainability of Istanbul's Surface Water Resources Under the Influence of Climate Change" Nergis Çilek • Istanbul Technical University	15:15-15:30 "The Architecture of Dust: A Reading of Architecture Through the Temporal and Political Layers of the Invisible" Banu Çiçek Ulucan • Istanbul Technical University	15:15-15:30 "Distributionally Robust Lawyer Allocation for Legal Recovery of Non-Performing Loans" Buse Senardar • Istanbul Technical University
15:30-15:45 "Horizontal Tail Design and Optimization for a Trainer Aircraft" Selin Kirci • Istanbul Technical University	15:30-15:45 "Design of a Reactive-Extractive Distillation Process for the Recovery of Ethyl Acetate and Methanol from Wastewater" Meliha Nur Demir • Istanbul Technical University	15:30-15:45 "LDU with switchable ultra-low power features via current comparator in 65 nm CMOS Technology" Salih Uluoz • Istanbul Technical University	15:30-15:45 "Microstructural Behavior of Graphene-Reinforced Cement Composites: A Material-Based Computational Design Approach" Arif Avni Üzuner • Istanbul Technical University	15:30-15:45 "Sustainable Cabin Waste Management in the Aviation Sector: Waste Generation, Characterization, and Circular Economy Strategies" Sedat Karaman • Istanbul Technical University	15:30-15:45 "The Impact of Interior Atmosphere on Users in New-Generation Coworking Spaces" Ceren Erdem • Istanbul Technical University	15:30-15:45 "Agent-Based AI for Automated Decision Support in Student Administration" Gamze Akman Acar • Istanbul Technical University	
15:45-16:00 "Attitude Control and Relative Dynamics Analysis of a Dual-Purpose Technology Demonstration Mission: Formation-Flying Interferometry and Earth Observation in Sun-Synchronous Orbit (SSO)" Mustafa Ahmed Yeşiloğlu • Istanbul Technical University	15:45-16:00 "Development Of Poly(lactic Acid and Zeolite Based Mixed-Matrix Membranes For Active Packaging And Gas Barrier Applications" Deniz Arslan • Istanbul Technical University	15:45-16:00 "Improving TDOA Localization Accuracy via Adaptive UAV Sensor Geometry" Elif Bişra Kızıltepe • Istanbul Technical University	15:45-16:00 "Research Insights on the Non-local Micro-mechanical Explicit Analysis of Crack Parallel Stress Effects via Finite Element Modelling of the Gap Test" Sedat Kömürçü • Istanbul Technical University	15:45-16:00 "Sustainability Performance of Three Full Scale Landfill Leachate Treatment Plants" Sena Bürkük • Istanbul Technical University	15:45-16:00 "Architectural Space in Cinema: Liminality and Spatial Experience in The Shining and Eternal Sunshine of the Spotless Mind" Ecehan Erancı Bayraktutan • Istanbul Technical University	15:45-16:00 "The Effect of Distance Learning during the COVID-19 Pandemic on Student Achievement in Turkey" Onur Alper • Istanbul Technical University	
16:00-16:15	COFFEE BREAK						
16:15-17:15	Chair: Asst. Prof. Dr. Duygu Erdem Co-Chair: Dr. Ayca Kızılkaya	Chair: Asst. Prof. Dr. Ayşe Banu Kocaağa Co-Chair: Res. Asst. Asude Bolat	Chair: Prof. Dr. Serdar Özoğuz Co-Chair: Res. Asst. Hatice Tuğba Karayama	Chair: Prof. Dr. Murat Monkul Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu	Chair: Asst. Prof. Dr. Ebru Acuner Türet Co-Chair: Res. Asst. Berker Pandir	Chair: Prof. Dr. Nilgün Baydoğan Co-Chair: Dr. Serhat Boynukalın	Chair: Dr. Kenan Mengüç Co-Chair: Res. Asst. Tuğba Yıldız
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	16:15-16:30 "Effect of Geometric Defects on Pressure Swirl Injectors" Ege Tugan • ROKETSAN	16:15-16:30 "Removal of Pharmaceutical Contaminants from Wastewater using Lanthanum-Modified BaTiO ₃ Based Photocatalysts" Dilara Atasavun • Istanbul Technical University	16:15-16:30 "Direction of Arrival Estimation of Coherent Sources Using Polarization-Sensitive Arrays" Umut Yıldız • Istanbul Technical University	16:15-16:30 "Evaluation of Strategies for Establishment of Temporary Shelters" Kanan Rahimov • Istanbul Technical University	16:15-16:30 "Effect of Recycled Concrete Fines Replacement Levels on the Strength of Cement" H. Simge Karadoğan • Istanbul Technical University	16:15-16:30 "The Effects of Spatial Configuration and Furnishing on Socialisation in Public Libraries: Case Study of Rami Library, Istanbul" Ceren Şahin • Istanbul Technical University	16:15-16:30 "Media Framing of Gender Discourse in Working Life in Turkey (2010-2025)" Gamze Baytekin • Istanbul Technical University
	16:30-16:45 "On-Design Cycle Analysis of the EJ200 Turbofan Engine Using Multiple Gas Turbine Simulation Tools" Zehra Sena Senturk • Istanbul Technical University	16:30-16:45 "Parametric Optimization and Energy Analysis of MEA-Based CO ₂ Capture Systems" Feyzullah Kesgin • Istanbul Technical University	16:30-16:45 "Effect of Membrane Rigidity on Photoacoustic Signal Stability and Acoustic Damping Mechanism in Gold Nanoparticle-Loaded Liposomal Carriers" Elif Gürbüz • Istanbul Technical University	16:30-16:45 "Assessment of Vitric Tuffs in the Bolu-Dörtdivan District as Potential Construction Materials" Mesut İS • Fatih Sultan Mehmet Vakıf University	16:30-16:45 "The Impact of the EU Taxonomy on the Automotive Sector" Halenur Kundakci • Istanbul Technical University	16:30-16:45 "A Perspective on Iconicity and Educational Structures through the Interrelation of Identity Construction, Physicality, and Actors: The Case of Sapienza University of Rome" Ezgi ESEN • Istanbul Technical University	16:30-16:45 "Improving The Performance of Defense Industry Office Processes Using Lean Management Techniques" Kubra Koçak • Istanbul Technical University
16:45-17:00 "Experimental-Numerical Validation of Buckling Behaviour in Thin-Walled Cylindrical Shells for Response Surface Based Structural Optimization" Firat Kaplan • Istanbul Technical University	16:45-17:00 "Water Treatment with Aerogel-Derived Carbon Materials from Waste Citrus Peels" Selin Serbest • Istanbul Technical University	16:45-17:00 "An RF Front-End Characterization System for Amplitude Equalization" Enes MUTTA • Istanbul Technical University	16:45-17:00 "Comparative Evaluation of Dynamic Soil Model Experiments with Numerical Analyses" Zorber Ullus • Istanbul Technical University	16:45-17:00 "ESG and firm performance in the core Eurozone: Evidence from quantile mean group estimation" Muhammet Atlas Dogan • Istanbul Technical University	16:45-17:00 "Spaces of Creativity: How Physical Environments Shape Writers' Creative Processes" Hande Nur Güleçoğlu • Arvin Coruh University	16:45-17:00 "Combination and Aggregation Approaches for Intermittent Demand Forecasting" Arda Odabaş • Istanbul Technical University	
17:00-17:15 "Large Eddy Simulation of Hydrogen Combustion in the HYLON-2 Dual-Swirl Combustor" Mustafa Şengül • Istanbul Technical University	17:00-17:15 "Sustainable Fabrication of a First Electropolymerized Molecularly Imprinted Sensor for Olaparib in Diverse Sample Matrices" Beril Sena Kaya • Istanbul Technical University	17:00-17:15 "Compact Distributed Amplifier Design using Nested Inductor Structures" Firat Aşdan • Istanbul Technical University	17:00-17:15 "Evaluation of Different Column Pattern Configurations Beneath Road Embankment Slope Stabilized by the Deep Soil Mixing Method" Murat Perver • Istanbul Technical University	17:00-17:15 "The Impact of Green Bonds on Environmental Quality" Zahra Rahimi • Istanbul Technical University	17:00-17:15 "The Multilayered Spatial Dynamics of Medieval Maçka" Nihan Zorlu Başel • Istanbul Technical University	17:00-17:15 "Data-Driven Classification of Garment Types in Washing Machines via Machine Learning" Sule Ceylan • Istanbul Technical University	

5th International Graduate Research Symposium | Istanbul Technical University

Time	Main Hall	Hall 1	Hall 2	Hall 3	Hall 4	Hall 5	Hall 6
	Chair: Asst. Prof. Dr. Öğuzcan İnal Co-Chair: Dr. Aycan Kızılkaya	Chair: Prof. Dr. Duygu Ağaoğulları Co-Chair: Res. Asst. Asude Bolat	Chair: Assoc. Prof. Dr. Ahmet Can Erten Co-Chair: Res. Asst. Hatice Tuğba Karayama	Chair: Assoc. Prof. Dr. Müge Balkaya Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu	Chair: Asst. Prof. Dr. Meltem Ağtaş Co-Chair: Res. Asst. Berker Pandir	Chair: Prof. Dr. Pelin Dursun Çebi Co-Chair: Dr. Serhat Boynukalın	Chair: Dr. Tuğberk Tunçinan Co-Chair: Res. Asst. Hande Vural Çelik
	AEROSPACE, MECHANICAL & MANUFACTURING <i>Aerospace and Aeronautical Sciences</i>	MATERIALS, CHEMISTRY & PROCESS ENGINEERING <i>Materials Science and Engineering</i>	ELECTRICAL, ELECTRONICS, COMPUTING & MATHEMATICAL SCIENCES <i>Electronics and Communication</i>	CIVIL, EARTHQUAKE, CONSTRUCTION & TRANSPORTATION <i>Earthquake Engineering and Geotechnics</i>	SUSTAINABILITY, ENVIRONMENT, ENERGY & EARTH SCIENCES <i>Environmental Engineering and Biotechnology</i>	ARCHITECTURE, URBAN PLANNING & HERITAGE <i>Architectural Design and Theory</i>	MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Business Administration and Industrial Engineering</i>
09:00-10:00	09:00-09:15 "Guidance Law Design for Missiles Performing Evasive Maneuvers in the Terminal Phase" Hakan Süleyman Eze • Istanbul Technical University	09:00-09:15 "Electrospinning of Waste-Derived Polymer for the Fabrication of Vascular Scaffold Containing Plant Extracts" Melisay Aksoy • Istanbul Technical University	09:00-09:15 "FPGA-Based Hardware Implementation of a Hippocampus-Inspired Spiking Neural Network" Sevde Yaslıt Çalkıcı • Istanbul Technical University	09:00-09:15 "Comparative Evaluation of Physico-Mechanical, Mineralogical and Geochemical Properties of Aggregates from Different Lithological Origins" Alper Akçin • Istanbul Technical University	09:00-09:15 "Comparative Analysis of Carbon Reduction Strategies Across Sectors Under the Concept Of Decarbonization" Bahire Akçin • Istanbul Technical University	09:00-09:15 "Alternative Reading And Representation Of Cistern No. 14 In Fatih Through The Concept Of Deterritorialization" Hande Karagül • Istanbul Technical University	09:00-09:15 "Short-Term Day-Ahead Electricity Price Forecasting in the Turkish Power Market Using Statistical and Machine Learning Algorithms" Cemre Nur Güngör • Istanbul Technical University
	09:15-09:30 "Online Moment of Inertia Estimation Based on Recursive Least Squares Algorithm" Evra Başaran • Istanbul Technical University	09:15-09:30 "Pack Aluminizing of CMSX-4 Single Crystal Alloy" Gizem Körsent • Istanbul Technical University	09:15-09:30 "Electromagnetic Performance Analysis of a Flux-Switching Permanent Magnet Generator" Umut Terzi • Istanbul Technical University	09:15-09:30 "Accessibility of Educational Facilities in the Post-Disaster Reconstruction Process: A Spatial Analysis of Container Settlement and TOKI Housing Areas in Hatay" Gözde İdil Özcan • Istanbul Technical University	09:15-09:30 "Methodology Development for Post - Earthquake Nedis Management Planning in Türkiye" Debra Cabbar • Istanbul Technical University	09:15-09:30 "Color difference and visual perception" Mertcan Yürekli • Istanbul Technical University	09:15-09:30 "Developing a Project Management 5.0 Maturity Model for AI-Supported Project Environments" Bayram Aytağ Gölçeri • Istanbul Technical University
	09:30-09:45 "Development of a High-Order Compact Finite-Difference Solver for Incompressible Flow" Elif Mithriban Zeyveli • Istanbul Technical University	09:30-09:45 "Investigation and Characterization of Ni-SiC Based Composite Coatings on Al-Si Eutectic Alloys" Kaan Özarsar • Istanbul Technical University	09:30-09:45 "Contributions to the Design of an Isolated Power Supply for Engine Control Units in National Aviation Applications" Nehir Akkus • Istanbul Technical University	09:30-09:45 "Piered Rafter Analysis Under Combined Loading: A Case Study" Ahmet Tuğtaş Şimşek • Istanbul Technical University	09:30-09:45 "Integrating process kinetics and biometric methods to evaluate the effect of copper on nitrification" Theirt Htar Win • Istanbul Technical University	09:30-09:45 "Lighting Analysis Predictions Using U-Net, Pix2Pix, and Clustering Machine Learning Techniques" Hakan Şahin • Istanbul Technical University	09:30-09:45 "The Impact of Leaders' Managerial Behaviors on Employee Motivation and Turnover Intention: An Examination of the Turkish Defense Industry" Mehmet Fatih İncehan • Istanbul Technical University
09:45-10:00 "Magnetic Navigation for Aircraft" Samet Kaplan • Istanbul Technical University	09:45-10:00 "Investigation of Self-Recovery Behavior in Recycling of PLA/TPU Blends" Elif Çeçen • Istanbul Technical University	09:45-10:00 "Design and Performance Analysis of Parallel Connected GaN HEMTs using Double Pulse Test" Fikri Serkan Yavuz • Istanbul Technical University	09:45-10:00 "AI-Driven Data Augmentation for RC Shear Walls: Generation and Validation through Structural Criteria" Gökkuş Ertuğrul • Istanbul Technical University	09:45-10:00 "qPCR-Based Analysis of Hydrogenase Gene Expression in Microalgal and Microalgae-Bacteria Coculture Systems under Sulfur Limitation" Nazlıcan Yüksel • Istanbul Technical University	09:45-10:00 "Integrating AI Agents into BIM for Architectural Design Support: A Torsional Eccentricity Assessment Case" Ecem Berna Şahin • Istanbul Technical University	09:45-10:00 "Access To Dependency: An Analysis Of Platform-Mediated Exporting" Ayşe Keser Mol • Istanbul Technical University	
10:00-10:45	INVITED SPEAKER Assoc. Prof. Dr. Nil Özbeke (40 min talk + 5 min Q&A, Main Hall)						
10:45-11:00	COFFEE BREAK						
	Chair: Dr. Tahir Soyuğüz Co-Chair: Dr. Aycan Kızılkaya	Chair: Dr. Mehtap Arslan Kaba Co-Chair: Res. Asst. Asude Bolat	Chair: Prof. Dr. Onur Ferhanoglu Co-Chair: Res. Asst. Hatice Tuğba Karayama	Chair: Assoc. Prof. Dr. Zeynep Değer Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu	Chair: Asst. Prof. Dr. Meltem Ağtaş Co-Chair: Res. Asst. Berker Pandir	Chair: Assoc. Prof. Dr. N. Onur Sönmez Co-Chair: Dr. Serhat Boynukalın	Chair: Assoc. Prof. Dr. Gaye Karaçay Ayдын Co-Chair: Res. Asst. Hande Vural Çelik
	AEROSPACE, MECHANICAL & MANUFACTURING <i>Aerospace and Aeronautical Sciences</i>	MATERIALS, CHEMISTRY & PROCESS ENGINEERING <i>Materials Science and Engineering</i>	ELECTRICAL, ELECTRONICS, COMPUTING & MATHEMATICAL SCIENCES <i>Electronics and Communication</i>	CIVIL, EARTHQUAKE, CONSTRUCTION & TRANSPORTATION <i>Earthquake Engineering and Geotechnics</i>	SUSTAINABILITY, ENVIRONMENT, ENERGY & EARTH SCIENCES <i>Environmental Engineering and Biotechnology</i>	ARCHITECTURE, URBAN PLANNING & HERITAGE <i>Architectural Design and Theory</i>	MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Business Administration and Industrial Engineering</i>
11:00-12:00	11:00-11:15 "Numerical Simulation of In Tube HFE 7000 Condensation in Microgravity Using OpenFOAM and Validation Against Published Parabolic Flight Measurements" Emil Aliyev • Istanbul Technical University	11:00-11:15 "Development of HfB ₂ and LaB ₆ Reinforced Inconel 718 Composites By Using Powder Metallurgy Methods" Ahmet Akay Habesoglu • Istanbul Technical University	11:00-11:15 "Information Group Hierarchy and Ablation Analysis for Measuring Strategic Value in Istanbul's Industrial Electricity Demand Forecasting" Reha Baran • Istanbul Technical University	11:00-11:15 "Bayesian Earthquake Damage Assessment Using Observable Damage Indicators Under Uncertainty" Ashi Turabi • Istanbul Technical University	11:00-11:15 "Decarbonizing Türkiye: Trends in Energy Mix, Sectoral Contributions, and Greenhouse Gas Emissions (1990-2023)" Emile Yedehoun • Gazı University	11:00-11:15 "Designing Phased Pneumatic Waste Infrastructure Using Cellular Automata" İpek Geç • Istanbul Technical University	11:00-11:15 "An Agent-Based Framework for Systematic Generation Feature Engineering in Financial Markets" Mustafa Enes Karaman • Istanbul Technical University
	11:15-11:30 "Aerodynamic Performance of Bio-Inspired Corrugated Airfoils: Effects of Surface Smoothing and Geometric Parameters" Ahmed Waseem Areekan • Istanbul Technical University	11:15-11:30 "Investigation of PFAS Presence in Molded Fiber Bowls and Development of Cellulose Nanocrystal-Based Alternative Barrier Systems" Hande GÖKER • Istanbul Technical University	11:15-11:30 "Modeling Blackouts on IEEE Test Networks for Early Warning Algorithms" Buğra Erkek • Istanbul Technical University	11:15-11:30 "Numerical Modeling and Validation of Geothermal Energy Piles: A Case Study at EPFL, Lausanne" Gülce Genç • Istanbul Technical University	11:15-11:30 "The Mutilage Phenomenon: The Crisis in Aquatic Ecosystems" Gökçe Caylıoğlu • Istanbul Technical University	11:15-11:30 "Title Distributed Design Cognition in Architect-Digital Environment Interaction: A Qualitative Inquiry through the 4E Cognition Framework" F. Aslı Yalçın • Istanbul Technical University	11:15-11:30 "THE IMPACT OF PROFITABILITY ENHANCEMENT STRATEGIES ON FINANCIAL PERFORMANCE AND CORPORATE VALUATION IN THE AUTOMOTIVE INDUSTRY" Tunahan Halız • Istanbul Technical University
	11:30-11:45 "Non-Reflecting Mixing Plane Implementation and Validation on Openfoam" Kuzey Can Derman • Istanbul Technical University	11:30-11:45 "Design and Characterization of a Drug-Eluting PLA Stent" Rumeysa SENER • Yıldız Technical University	11:30-11:45 "Battery Energy Storage Systems Optimization for Multi-Service Operation Considering Aging and Economic Returns in the Turkish Electricity Market" Sadi Muhammed Ümit • Istanbul Technical University	11:30-11:45 "Evaluating functional urban resilience under air-to-ground strikes: A GNN simulation of cascading failures" DOAA AL-JAHMI • Istanbul Technical University	11:30-11:45 "Comparison of Multi-Criteria Decision-Making Methods (AHP, TOPSIS and PROMETHEE II) for Selecting Solid and Liquid Waste Disposal Alternatives for Airport Terminal Operations" Ceren Ünlü • Istanbul Technical University	11:30-11:45 "Cost and Risk Management in Construction Projects: A System Dynamics Approach" Ömer Mansur Arıcı • Istanbul Technical University	11:30-11:45 "An Arts-Based Approach for Enhancing Non-Projects: Participation in Co-Creation" Merve Zeynep Sankaya • Istanbul Technical University
11:45-12:00 "The Effects of Design Parameters of Escapement Mechanisms on Arming Delay in Medium Caliber Munitions" Cem Kılıç • Istanbul Technical University	11:45-12:00 "INFLUENCE OF BLAST FURNACE SLAG ON THE FINING MECHANISM OF REDUCING AND OXIDIZING SODA-LIME-SILICA GLASS BATCH" Tayfun Sarıkan • Istanbul Technical University	11:45-12:00 "Design of a High-Efficiency SiC-Based Bidirectional DC-DC Converter for High-Voltage Applications" Hatice ÇELİK • Istanbul Technical University	11:45-12:00 "Mechanical Behavior of Waste Glass-Modified Fiberglass Solis" Mehmet Aydın • Istanbul Technical University	11:45-12:00 "Biogas Upgrading by Centrifugal Rotating Packed Bed System" saharsadat parvin • Istanbul Technical University	11:45-12:00 "Immaterial Space: A Soft Robotic Spatial System" Aykut Dağ • Istanbul Technical University	11:45-12:00 "Investigation of Hobby Drone Users Experiences through Experience-Based Design Research (EBDR)" Tuğçe Bayram • Istanbul Technical University	
Chair: Prof. Dr. Volkan Sezer Co-Chair: Dr. Aycan Kızılkaya	Chair: Dr. Mehtap Arslan Kaba Co-Chair: Res. Asst. Asude Bolat	Chair: Assoc. Prof. Dr. Volkan Müjdat Tiryaki Co-Chair: Res. Asst. Hatice Tuğba Karayama	Chair: Prof. Dr. Esin Ergen Pehlivan Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu	Chair: Assoc. Prof. Dr. Burak Barutcu Co-Chair: Res. Asst. Berker Pandir	Chair: Assoc. Prof. Dr. Lana Kudumovic Co-Chair: Dr. Serhat Boynukalın	Chair: Assoc. Prof. Dr. Özgür Çelikoğlu Co-Chair: Res. Asst. Hande Vural Çelik	
AEROSPACE, MECHANICAL & MANUFACTURING <i>Mechanical Engineering and Design</i>	MATERIALS, CHEMISTRY & PROCESS ENGINEERING <i>Materials Science and Engineering</i>	ELECTRICAL, ELECTRONICS, COMPUTING & MATHEMATICAL SCIENCES <i>Computer Sciences and Engineering</i>	CIVIL, EARTHQUAKE, CONSTRUCTION & TRANSPORTATION <i>Project and Construction Management</i>	SUSTAINABILITY, ENVIRONMENT, ENERGY & EARTH SCIENCES <i>Energy Science and Technology</i>	ARCHITECTURE, URBAN PLANNING & HERITAGE <i>Restoration, Heritage and Interior Architecture</i>	MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Industrial Design</i>	
12:00-12:15 "Optimizing Camera Sensor Placement for Robust Object Detection Under High-Dynamic Maneuvers in a Military Vehicle" Ömer Yunus Dikmen • Istanbul Technical University	12:00-12:15 "Optimization of Micro Arc Oxidation Parameters on 7075 Aluminum Alloy by Taguchi Method and Grey Relational Analysis" Sencer Öztan • Istanbul Technical University	12:00-12:15 "Energy Management and Efficiency Optimization of a Hybrid Fuel Cell-Battery System for Small-Scale Electric Vehicles" Beysa Gül Şimşek • Istanbul Technical University	12:00-12:15 "Rule-Based Generative Framework for the Rehabilitation of Earthquake-Damaged Reinforced Concrete Structures Using Steel Support Systems" Hakan Şahin • Istanbul Technical University	12:00-12:15 "Performance and Economic Comparison of Active and Passive Balanced Battery Management Systems Used in Lithium-Ion Battery Energy Storage Packages" Emre YILMAZ • Istanbul Technical University	12:00-12:15 "An Integrated Walkability Framework: Research Design for Objective Assessment and Pedestrian Experience in Bakırköy Town Center, Istanbul" Mitra Torkinezhadani • Istanbul Technical University	12:00-12:15 "Perceived Benefits and Barriers of Mixed Reality in Product Design Workflows: A Survey Study" Fatih İsgandarov • Istanbul Technical University	
12:15-12:30 "Mechanical Behavior of Carbon Fiber Reinforced Nylon 6 Lattice Structures in Additive Manufacturing" Abdullah Mustafa Kiran • Yalova University	12:15-12:30 "Utilization of Hydrogen Gas as a Reductant in Green Iron Production from Slag" Cağdaş Ekin Zöhra • Istanbul Technical University	12:15-12:30 "A Modular Deep Learning Framework for Age and Sex Estimation from Multi-Anatomy Radiographs" Ekin Kağan Özkan • Istanbul Technical University	12:15-12:30 "Motivational Factors and Organizational Commitment Across Generations: A Study of Office-Based Professionals in the Construction Industry" Ahşen Köksal • Istanbul Technical University	12:15-12:30 "Agent-Based Modelling of Rooftop Solar PV Diffusion in Türkiye: Integrating Spatial Dynamics and Energy Justice" Yavuz UNAL • Istanbul Technical University	12:15-12:30 "Integration of Digital Twin Technology into the Turkish Spatial Planning System" Şeyma Savaş • Istanbul Technical University	12:15-12:30 "Digital Applications as Meaningful Artifacts: Exploring the Experience of Users Aged 65+" Elif Simal Göver • Istanbul Technical University	
12:30-12:45 "Geometric Performance Analysis of a Compact Gas Gas Ejector Using One-Dimensional Analytical Modeling and CFD Validation" Gürkan Avcı • Istanbul Technical University	12:30-12:45 "Investigation of Dealcalization Process of Flat Glass Using Sulphur Containing Gas Compounds and Improvement of Environmental Durability" Eda Vergili • Istanbul Technical University	12:30-12:45 "Performance Comparison of Large Language and Vision-Language Models On Unified Memory Architectures: Apple Silicon Versus NVIDIA Blackwell" Emre Ersoy • Istanbul Technical University	12:30-12:45 "Construction Delays in Restoration Projects" Ömer Mendes • Istanbul Technical University	12:30-12:45 "Climate-Aware Electricity Market Design for Türkiye: Modular Retirement Analysis, Carbon Pricing, and ML-Based Monthly MCP Projections" Buğra Kocadağ • Istanbul Technical University	12:30-12:45 "Transcriptionist: A Multi-layered Approach to Event-Based Spatial Representation - The Case of Santal'isbul" İpek Usta • Istanbul Technical University	12:30-12:45 "Exploring Hedonic Expectations In Utilitarian Product Concepts Through Anticipated User Satisfaction" Ayşe Nilay Anı • Istanbul Technical University	
12:45-13:00 "Parametric Investigation of Dome Geometry and Depth Ratio for Launch Vehicle Propellant Tanks" Ahmet Yazıcı • Istanbul Technical University	12:45-13:00 "Powder Metallurgical Synthesis and Characterization of High-Entropy (HfTiZrTa)B ₂ Diboride Reinforced Al and Al ₄ Cu Matrix Composites" Berkay Demircan • Istanbul Technical University	12:45-13:00 "Clustering Large-Scale Molecular Datasets: Faster Complete-Linkage at Threshold Consistency" Arşia Lamei • Istanbul Technical University	12:45-13:00 "A Meta-Analysis of Change Order Impacts on Construction Project Performance: A Systematic Review" Eylül Efeoğlu • Istanbul Technical University	12:45-13:00 "Design and Techno-Economic Analysis of a Photovoltaic-Powered LED Road Lighting System for the Kayseri-Malatya Highway (M3 Class)" Nurullah Talha GORUCU • Istanbul Technical University	12:45-13:00 "Future City Born from Destruction: Scenario Planning for Post-Disaster Urban Futures" Gizem Bakıoğlu Apaydın • Istanbul Technical University	12:45-13:00 "Exploring Autonomous Aerial Vehicle-Supported Welfare Scenarios for Istanbul's Street Cats: A Design Fiction Application for Multispecies Coexistence" Enrah YILMAZ • Istanbul Technical University	
13:00-14:00	LUNCH BREAK						
	Chair: Prof. Dr. Erdinç Altuğ Co-Chair: Dr. Aycan Kızılkaya	Chair: Dr. Siddika Mertdin Üskü Bolat Co-Chair: Res. Asst. Asude Bolat	Chair: Dr. Muhammed Sebül Beeroğlu Co-Chair: Res. Asst. Hatice Tuğba Karayama	Chair: Asst. Prof. Dr. Deniz B. Bural Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu	Chair: Assoc. Prof. Dr. Senem Şentürk Co-Chair: Res. Asst. Berker Pandir	Chair: Assoc. Prof. Dr. Seniye Banu Gürle Co-Chair: Res. Asst. Tuğba Yıldız	Chair: Prof. Dr. Başar Öztaycı Co-Chair: Res. Asst. Hande Vural Çelik
	AEROSPACE, MECHANICAL & MANUFACTURING <i>Mechanical Engineering and Design</i>	MATERIALS, CHEMISTRY & PROCESS ENGINEERING <i>Materials Science and Engineering</i>	ELECTRICAL, ELECTRONICS, COMPUTING & MATHEMATICAL SCIENCES <i>Computer Sciences and Engineering</i>	CIVIL, EARTHQUAKE, CONSTRUCTION & TRANSPORTATION <i>Project and Construction Management</i>	SUSTAINABILITY, ENVIRONMENT, ENERGY & EARTH SCIENCES <i>Energy Science and Technology</i>	ARCHITECTURE, URBAN PLANNING & HERITAGE <i>Restoration, Heritage and Interior Architecture</i>	MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Industrial Design</i>
14:00-15:00	14:00-14:15 "Design of an Electro-Mechanical Sports Device Providing Resistance to Linear Motion" Sinan Aleksander Özak • Istanbul Technical University	14:00-14:15 "Effect of Graphene Addition in Pack Aluminizing of IN718 Alloy on Mechanical Properties of Coating" İrem Ece Haran • Istanbul Technical University	14:00-14:15 "Loss Function Analysis for Building Segmentation on the xBD Dataset Using VM-UNET" Fatma Kuzey Edes-Huyal • Altınbaş University	14:00-14:15 "A Literature Review on the Barriers to Adopting Lean Construction" Gökkuş Simge Üstüner • Istanbul Technical University	14:00-14:15 "The Impact of Environmental Factors on Performance Prediction in Combined Cycle Power Plants: Sensor Data Quality and Model Robustness Analysis" Muhammed Bekir Dilek • Istanbul Technical University	14:00-14:15 "Visual Perception and Urban Image Interaction in Campus Spaces: A Study on Istanbul Technical University Ayazağa Campus" Keşver Çalkı • Istanbul Technical University	14:00-14:15 "Positioning Artificial Intelligence as a Design Actor: Examining Designer-AI Collaboration in UX/UI Design Processes" E. Gülnur Üstün Özcan • Istanbul Technical University
	14:15-14:30 "Investigation of Defect-Mediated Deformation in (MCP) Titanium Using Molecular Dynamics Simulations" Emel Küla Topak • Istanbul Technical University	14:15-14:30 "Development of a Smart Wearable Corset for Posture Monitoring and Correction" Öğuzcan Topaçoğlu • Ege University	14:15-14:30 "SUDDO: SCALABLE UNDERUTILIZED DEVICE OPTIMIZATION" Mirac Vural • Istanbul Technical University	14:15-14:30 "Prioritization of Zoning Regulation Articles for Digital Approval of Architectural Projects: Kocaeli Analysis With AHP And Delphi" Bartu Büyükkökten • Istanbul Technical University	14:15-14:30 "Tandem Copper-Cobalt Phthalocyanine Electrodes for Enhanced Electrochemical CO ₂ Conversion to Ethylene" Kadir Türkmen • Istanbul Technical University	14:15-14:30 "Machine Learning-Based Interpretation of Urban Data: Socio-Spatial Analysis and Green Visibility Modeling in Kadıköy" Akif Emre Tavlaoğlu • Istanbul Technical University	14:15-14:30 "Exploring Mental Well-being in Doctoral Design Education: A Conceptual Review of Challenges and Disciplinary Needs" Miray Hamarat Dündar • Istanbul Technical University
	14:30-14:45 "Natural Frequency Topology Optimization using Gradient Based Methods" Kerem Utku Demir • Istanbul Technical University	14:30-14:45 "Synthesis and Characterization of Bismuth Titanate and Bismuth Tungstate Nanoparticles for the Production of Composite Radiation Shielding Materials" Mümin Balaban • Istanbul Technical University	14:30-14:45 "A Multi-Agent Large Language Model Council Framework for Automated Integrity Assessment of User-Generated Video Game Reviews" Sumeyye Reyhan Eren • Istanbul Technical University	14:30-14:45 "A Risk Assessment-Based Fire-Safe Building Construction Check Model: A Conceptual Framework" Safak Besiroglu • Istanbul Technical University	14:30-14:45 "Life Cycle Assessment of Carbon-Coated Silica Anode Materials for Lithium-Ion Batteries" Hamra Deniz • Istanbul Technical University	14:30-14:45 "Urban Safety Beyond Crime: Spatial Evaluation of CPTED Principles in Different Socio-Economic Contexts" Hatice Ezgi Güllusta • Istanbul Technical University	14:30-14:45 "Comparative Analysis of User Research Focuses for Innovative Product Design: A Study with Five Different Perspectives" Ceylan Şahin • Istanbul Ticaret University
14:45-15:00 "Adaptive Predictive Fuzzy PID Controller based on Runge-Kutta Model for Nonlinear Dynamical Systems" İsmail Koray Gundogan • Istanbul Technical University	14:45-15:00 "BaBa Effect on Sintering Shrinkage of Al ₂ O ₃ " Ezgi Şahin • Istanbul Technical University	14:45-15:00 "Performance Analysis of Top, Udu and Pcie Data Transfers in Vxworks-Based Radar Systems" Ahmet Bartu YILMAZ • Istanbul Technical University	14:45-15:00 "Optimization of Fire Safety in Sustainable Buildings: A Multi-Criteria Performance Model and Interaction Matrix Proposal" Gökçe Saadet Arpacı Coşkun • Istanbul Technical University	14:45-15:00 "Comparative Analysis of Turkey and the European Union in Decarbonizing the Residential Sector" Emre Unalan • Istanbul Technical University	14:45-15:00 "Quantifying Carbon Emissions in Sustainable Urban Passenger Transport: A Case Study of Kızılay Boulevard" Zeynep Karataş • Istanbul Technical University	14:45-15:00 "Autoethnography in Designer-Maker Practice: A Pilot Study of Contemporary Jewelry Making" Nazire Dyku Kaya • Istanbul Technical University	
Chair: Prof. Dr. Erdinç Altuğ Co-Chair: Dr. Aycan Kızılkaya	Chair: Dr. Siddika Mertdin Üskü Bolat Co-Chair: Res. Asst. Asude Bolat	Chair: Assoc. Prof. Dr. Asli Kanan Co-Chair: Res. Asst. Hatice Tuğba Karayama	Chair: Asst. Prof. Dr. Cihad Delen Co-Chair: Res. Asst. Ahmet Yazıcı	Chair: Prof. Dr. Kasım Koçak Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu	Chair: Assoc. Prof. Dr. Demet Arslan Dincay Co-Chair: Res. Asst. Tuğba Yıldız	Chair: Prof. Dr. Başar Öztaycı Co-Chair: Res. Asst. Hande Vural Çelik	
AEROSPACE, MECHANICAL & MANUFACTURING <i>Mechanical Engineering and Design</i>	MATERIALS, CHEMISTRY & PROCESS ENGINEERING <i>Materials Science and Engineering</i>	ELECTRICAL, ELECTRONICS, COMPUTING & MATHEMATICAL SCIENCES <i>Computer Sciences and Engineering</i>	CIVIL, EARTHQUAKE, CONSTRUCTION & TRANSPORTATION <i>Project and Construction Management</i>	SUSTAINABILITY, ENVIRONMENT, ENERGY & EARTH SCIENCES <i>Atmospheric and Earth System Sciences</i>	ARCHITECTURE, URBAN PLANNING & HERITAGE <i>Restoration, Heritage and Interior Architecture</i>	MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Industrial Design</i>	
15:00-16:00	15:00-15:15 "State of Health Estimation Based on Post-Charge Relaxation Dynamics and Two-Time-Constant Equivalent Circuit Parameters" Eubekir Buğra Özarslan • Istanbul Technical University	15:00-15:15 "Synthesis of Environmentally Friendly Modified Ketonic Resins and Their Investigation in Rigid Insulation Polyurethane Foam" Esrarun Öztürk • Istanbul Technical University	15:00-15:15 "A Multi-Modal Deep Learning Framework for Binary Breast Cancer Classification" Neslihan Koyuncu • Istanbul Technical University	15:00-15:15 "Large Language Models for Information Extraction from Public Construction Tender Documents: A Systematic and Thematic Review" Mustafa Polat • Istanbul Technical University	15:00-15:15 "Performance Assessment of Traditional and Machine Learning Based Measure Correlate Predict (MCP) Methods" Gizem Bekir • Istanbul Technical University	15:00-15:15 "The Impact of Spatial Integration on Housing Fabric and Social Interaction through an Inter-Scale Approach: The Case of Muğla City Center" Nur Selin Serdaroglu • Istanbul Technical University	15:00-15:15 "Fostering Sustainable Consumption in Home Appliances Retail Stores: A Co-Design Workshop with Industry Professionals" Şeyma Yıldırım • Istanbul Technical University
	15:15-15:30 "Enhanced State Estimation and Sensor Fusion Techniques for Ground Vehicle Localization and Navigation" Abdurrahman ElAdavy • Istanbul Technical University	15:15-15:30 "Bridging Nanomaterials and Sustainable Agriculture: Mo ₂ N-Doped Carbon Quantum Dots as UV-Protective Agents for Plant Pigments" İbrahim Yılmaz COSKUN • Istanbul Technical University	15:15-15:30 "Causality-Informed Dynamic Graph Neural Networks for Stock Return Prediction" Doğu Berk Gümiş • Istanbul Technical University	15:15-15:30 "Assessing AI Image-to-3D Reconstruction for Drone-Based Building Modeling: A Benchmark Framework for Urban Platform Integration" Abdurrahman T. Y. Alashi • Istanbul Technical University	15:15-15:30 "Wind Tunnel Study on the Influence of Facade Roughness and Urban Geometry Representation on Urban Flow Fields" Dalyan Karabudak • Istanbul Technical University	15:15-15:30 "Modern Trade Center in a Historic Environment: Mersin Metropolitan Trade Center" Sevval Bözpegel Balcı • Istanbul Technical University	15:15-15:30 "Material as a Driver of Circular Design Strategies: Insights from the Literature" Seyda Senay Elmas • Istanbul Technical University
	15:30-15:45 "Numerical Investigation of Mechanical Performance and Elastic Energy Storage Capacity in Tetrahedral Auxetic Lattice Structure" Muhammed Raşit Karakoca • Istanbul Technical University	15:30-15:45 "Influence of Modifier and Intermediate Oxide Ratios on the Chemical and Mechanical Properties of Soda-Lime Silicate Glasses" Deniz San Güler • Istanbul Technical University	15:30-15:45 "Decentralized Trust Anchors: A Blockchain-Based Peer-Assisted Recovery Protocol for FIDO2 Credentials in Zero-Trust Enterprise Environments" Murat Sekmen • Istanbul Technical University	15:30-15:45 "Real-Time Experimental Evaluation of PID and Fuzzy Speed Control for Sinusoidal BLDC Drives" Eymen Koşar • Istanbul Technical University	15:30-15:45 "Validation of a Multidimensional High-Performance Work Systems Scale in the Maritime Industry" Mehmet Özkan Keleş • Istanbul Technical University	15:30-15:45 "Resilient Coastal Interfaces: A Systematic Review of Shoreline Evacuation Corridors and Policies in Seismic Megacities" Mehmet Emin Sanhan • Istanbul Technical University	15:30-15:45 "Carbon Pricing in Maritime Transport: EU ETS Cost Implications for the Turkish-Flagged Fleet" Özlem Mulaç Akpınar • Istanbul Technical University
15:45-16:00 "Finite Element Analysis of Stress Distribution and Critical Fracture Regions in Chain Links with Different Material Properties" Abdülmelek Sancak • Istanbul Technical University	15:45-16:00 "Comparative Investigation of Ti6Al4V Alloy Treated with Micro-Arc Oxidation and Anodization Coatings" Enes KÖK • Istanbul Technical University	15:45-16:00 "Player Agency in Adaptive Game Environments: A Typology-Based Analysis" Sena Subaşı • Istanbul Technical University	15:45-16:00 "Traffic Accidents in Türkiye: A 15-Year Statistical Analysis of Trends and Contributing Factors" Muhammed Azmi Mohamed Osman • Istanbul Technical University	15:45-16:00 "Measurement-Based Calibration of ERA5 Offshore Wind Speeds Using Physics-Informed Machine Learning: The Bozcaada YEKA Case" Diyar Güden • Istanbul Technical University	15:45-16:00 "Evaluating the Sharing Economy in Cities: An Indicator-Based Approach" Buğra Begem Okay • Istanbul Technical University	15:45-16:00 "A Multi-Criteria Evaluation of Offshore Wind Farm Installation Methods: A Case Study in the Çanakkale Region, Türkiye" Ömer Kaplan • Istanbul Technical University	
16:00-16:15	COFFEE BREAK						
	Chair: Asst. Prof. Dr. Samet Çeri Co-Chair: Dr. Aycan Kızılkaya	Chair: Assoc. Prof. Dr. M. Mustafa Kahraman Co-Chair: Res. Asst. Asude Bolat	Chair: Prof. Dr. Atabey Kaygun Co-Chair: Res. Asst. Hatice Tuğba Karayama	Chair: Asst. Prof. Dr. Cihad Delen Co-Chair: Res. Asst. Ahmet Yazıcı	Chair: Prof. Dr. Hüseyin Toros Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu	Chair: Prof. Dr. Elif Alkay Co-Chair: Res. Asst. Tuğba Yıldız	Chair: Asst. Prof. Dr. Serdar Aytekin Köröglü Co-Chair: Res. Asst. Hande Vural Çelik
	AEROSPACE, MECHANICAL & MANUFACTURING <i>Mechanical Engineering and Design</i>	MATERIALS, CHEMISTRY & PROCESS ENGINEERING <i>Mining, Petroleum and Nuclear</i>	ELECTRICAL, ELECTRONICS, COMPUTING & MATHEMATICAL SCIENCES <i>Mathematical and Physics Engineering</i>	CIVIL, EARTHQUAKE, CONSTRUCTION & TRANSPORTATION <i>Transportation, Railway and Maritime Logistics</i>	SUSTAINABILITY, ENVIRONMENT, ENERGY & EARTH SCIENCES <i>Atmospheric and Earth System Sciences</i>	ARCHITECTURE, URBAN PLANNING & HERITAGE <i>Urban Design and Regional Planning</i>	MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Maritime and Shipbuilding</i>
16:15-17:15	16:15-16:30 "Aerodynamic and Structural Optimization of an Aircraft Wing Using Response Surface Methodology" Abdullah Demircan • Istanbul Technical University	16:15-16:30 "Detection, Analysis and Characterization of Perfluoroalkyl and Polyfluoroalk					

Time	Hall 1	Hall 2	Hall 3	Hall 4	Hall 5	Hall 6
	<p>Chair: Asst. Prof. Dr. K. Tahsin Perek Co-Chair: Dr. Ayca Kizilkaya</p> <p>MATERIALS, CHEMISTRY & PROCESS ENGINEERING <i>Mining, Petroleum and Nuclear</i></p>	<p>Chair: Prof. Dr. Gülçin Mihriye Muslu Co-Chair: Res. Asst. Ahmet Yazıcı</p> <p>ELECTRICAL, ELECTRONICS, COMPUTING & MATHEMATICAL SCIENCES <i>Mathematical and Physics Engineering</i></p>	<p>Chair: Assoc. Prof. Dr. Uğurcan Eroğlu Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu</p> <p>HYBRID INTERDISCIPLINARY SESSION <i>Applied Mechanics and Acoustics</i></p>	<p>Chair: Prof. Dr. Uğur Algancı Co-Chair: Res. Asst. Berker Pandir</p> <p>SUSTAINABILITY, ENVIRONMENT, ENERGY & EARTH SCIENCES <i>Geomatics and Geographical Information Technologies</i></p>	<p>Chair: Prof. Dr. Şevkiye Şence Türk Co-Chair: Res. Asst. Hande Vural Çelik</p> <p>ARCHITECTURE, URBAN PLANNING & HERITAGE <i>Urban Design and Regional Planning</i></p>	<p>Chair: Prof. Dr. Ahmet Ergin Co-Chair: Res. Asst. Tuğba Yıldız</p> <p>MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Maritime and Shipbuilding</i></p>
09:00-09:15	"Determination of Breakage Parameters and Perfect Mixing Model Simulation of a Kastamonu Copper Ore" Zeynep Gür • Istanbul Technical University	"Finite Time Passivity-based Control of Ikeda System with Time-Delay" Eray Özkurt • Istanbul Technical University	"Evaluating the effect of gap on optical performance of a thermal imaging system" Hakan Fidan • Istanbul Technical University	"Determination of millimeter-level building displacements using terrestrial laser scanning" Gülçin Aktas • Istanbul Technical University	"From Monastic Heritage to Cultural Routes: Cultural Tourism Potentials of the 'Iao-Klarjeti Monasteries'" Mustafa Tahir Ocak • Istanbul Technical University	"Towards a Complex-Systems Second Phase of the Maritime Security Matrix: A Systems Dynamics and Fuzzy MCDM Approach to Inter-Pillar Modelling" Mehmet Cengiz Ekren • Istanbul Technical University
09:15-09:30	"Development of a Data-Driven Rheology Prediction Model for Drilling Fluids" Onurpınar Mete Yağmur • Istanbul Technical University	"Turret Stabilization Using Neuro-Adaptive Control Techniques" Burakcan Solak • Istanbul Technical University	"Study Of Chamber-Case Interaction Effects On Case Rupture In 25x137 Mm Steel Cartridge Cases" Önder Sankaya • Istanbul Technical University	"Modelling The Effects of Earthquake Risk on Financial Risk Management Using Geographic Analysis Methods: A Spatial Risk Approach for the Banking Sector" Zeynep Çakır • Istanbul Technical University	"Conservation Project of the Üsküdar Kalfayan (Semercyan Cemaran) Armenian School" Selin Özyayın • Istanbul Technical University	"Julia-based Numerical Implementation of a Moving Pressure-driven Boussinesq Wave Model" Omar Batt • Istanbul Technical University
09:30-09:45	"Radiation-Induced Defect in Material: A Case Study on Silicon through First-Principles and Experimental Investigation" Maryam Mansoor • Istanbul Technical University	"Drift-Aware GNSS-EKF Localization Performance Analysis Under GNSS-Available and GNSS-Denied Conditions in a ROS 2 Environment" Osman ÇOBAN • Istanbul Technical University	"Identification of Structural Damage in Beams Using Analytical Modal Curvatures and Acoustic Beamforming" Syed Majid Naqash • Istanbul Technical University	"Open-Source ADS-B and GIS-Based Radar Site Assessment Under Jamming Scenarios" Abdullah Erşan • Istanbul Technical University	"19th Century Restorations of Mimar Sinan's Mosques in Istanbul as Depicted in Ottoman Archival Documents" Pinar Sümen Akın • Istanbul Technical University	"Evolving Maritime Security- A Three Dimensional Approach to the Maritime Security Matrix" Mehmet Cengiz Ekren • Istanbul Technical University
09:45-10:00	"Process, Structure and Performance Relationships in Viton Coated Boron Based Pyrotechnic Materials for Turbjet Ignition" Merve Alpkan Öte • Istanbul Technical University	"Design and Analysis Methods of Nonlinear Dynamic Inversion and Autopilot for Fixed-Wing Fighter Aircraft" Ayşe Aydan Macit • Istanbul Technical University	"A Study On The Acoustic Investigation Of The Underwater Test Tank" Mehmet Ali KAPLAN • Istanbul Technical University	"Digital Twin Approach for the Integration of Three-Dimensional Urban Morphology into Planning Processes" Merve Gülsün • Istanbul Technical University	"Documentation and Conservation Assessment of Adobe Structures in Ayanbey Neighbourhood, Konya" Sükran Oksoy • Istanbul Technical University	"Numerical investigation of heave and pitch damping in spar buoys with multiple damping geometries" Murtala Nyaka Musa • Istanbul Technical University
10:00-10:45	INVITED SPEAKER Assoc. Prof. Dr. Ömer Ekmekcioğlu 40 min talk + 5 min Q&A, Main Hall)					
10:45-11:00	COFFEE BREAK					
	<p>Chair: Prof. Dr. Teoman Özer Co-Chair: Dr. Ayca Kizilkaya</p> <p>AEROSPACE, MECHANICAL & MANUFACTURING <i>Mechanical Engineering and Design</i></p>	<p>Chair: Prof. Dr. Yaprak Yalçın Co-Chair: Res. Asst. Ahmet Yazıcı</p> <p>ELECTRICAL, ELECTRONICS, COMPUTING & MATHEMATICAL SCIENCES <i>Control and Systems Dynamics</i></p>	<p>Chair: Prof. Dr. Nilgün Baydoğan Co-Chair: Dr. Melis Toker Derdiyok</p> <p>HYBRID INTERDISCIPLINARY SESSION <i>Sustainability and Built Environment</i></p>	<p>Chair: Assoc. Prof. Dr. Orkan Özcan Co-Chair: Res. Asst. Tuğba Yıldız</p> <p>SUSTAINABILITY, ENVIRONMENT, ENERGY & EARTH SCIENCES <i>Geomatics and Geographical Information Technologies</i></p>	<p>Chair: Prof. Dr. Şevkiye Şence Türk Co-Chair: Res. Asst. Hande Vural</p> <p>ARCHITECTURE, URBAN PLANNING & HERITAGE <i>Urban Design and Regional Planning</i></p>	<p>Chair: Asst. Prof. Dr. Serdar A. Koroğlu Co-Chair: Res. Asst. Berker Pandir</p> <p>MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Maritime and Shipbuilding</i></p>
11:00-11:15	"Investigation of Magnetic Surface Abrasion Using a Soft Robot" İclal Tetik • Balıkesir University	"Slow- Fast Dynamical Analysis of a FitzHugh-Nagumo Type Model for Dual Cognitive Processes" Furkan Emre Işık • Istanbul Technical University	"Urban Growth and Office Market Transformation in Istanbul: How Evolving Typologies Shape City Dynamics and Real Estate Value" İrmak Çirakoğlu • Istanbul Technical University	"Estimating Soil Organic Carbon Stocks Using Sentinel-2 and Environmental Variables with Machine Learning" Buse Selin Ercan • Istanbul Technical University	"Discussions on Reconstruction and Authenticity in Urban Conservation Areas: A Comparative Evaluation of Applications in the Süleymaniye World Heritage Site and the Antakya Urban Conservation Area" Elif Yıldırım • Istanbul Technical University	"Legal Framework for Alternative Marine Fuels: A Comparative Analysis of IMO Regulations and EU FuelEU Maritime Regulation" Ayşe Selcen Büyük • Marmara University
11:15-11:30	"Cylinder Pressure Peak and IMEP Estimation Using RMS Analysis of Crankshaft Speed Fluctuations" Yunus Emre Erginsoy • Istanbul Technical University	"Lie Symmetry Analysis of the (2+1)-Extended Kadomtsev-Petviashvili-Boussinesq Equation" Ayşe Tiryakioğlu • Istanbul Technical University	"Ankara İlinde Örnek Bir Konut Yapısının Yağmur Suyu Hasadı Potansiyelinin Mevcut ve Gelecek İklim Koşulları Altında Değerlendirilmesi" Cansu ÖZTÜRK • Istanbul Technical University	"An Adaptive Window Integration Framework for Agricultural Field Boundary Extraction Using Sentinel-2 Data" Mert Kerem Taş • Istanbul Technical University	"Çengelköy: Heritage Conservation Challenges" Saliha Ravza Aytün • Istanbul Technical University	"Nonlinear Modeling and NDI-Based Lateral Control of a Supercavitating AUV" Ahmet Hakan Albayrak • Istanbul Technical University
11:30-11:45	"Re-Design and Structural Optimization of the NLG Door of a Civil Aircraft" Faruk Yardımcıoğlu • Istanbul Technical University	"Design of a Modular Spectrophotometric Device for Multiplex Biomarker Determination in Serum Samples Using Visible Region Absorption Spectroscopy" Furkan ULENGİN • Istanbul University	"Ultrasound-Assisted Production and Optimization of Bioactive Peptides from Agricultural By-Products" Duygu Gökçen • Istanbul Technical University	"Evaluation of Property Restrictions and Compensation Mechanisms Concerning Immoveable Cultural Properties under Law No. 2863" Merve Özyaşar • Istanbul Technical University	"ESG Disclosure and Financial Performance in Turkish REITs: Evidence from Panel Data" Naz Kızılkay • Istanbul Technical University	"Hydrodynamic and Hydrostatic Investigation of the Effects of Metallic Foam as a Lightweight Material on the OC4 DeepWind Semi-Submersible Platform" Tuğba Karakaya • Istanbul Technical University
11:45-12:00	"CFD Validation of an Open-Source Density-Based Solver for NASA Rotor 67 Transonic Compressor" Şeyda Nur İleşen • Istanbul Technical University	"Supercavity Extension of Third-Way Consistent 3D Supersymmetric Gauge Theories" Kubilay Mert Ateş • Istanbul Technical University	—	"A Model Proposal Based on the Nominal Valuation Method for Determining Easement Expropriation Compensation" Mustafa Yılmaz • Istanbul Technical University	"Visual Landscape Quality Analysis of Water Elements in Bursa Through Archival Photographs" Süde Özdemir Ülker • Istanbul Technical University	"A Brief Look Into Walter Murch's Approach to Film Sound" Serkan Köseoğlu • Istanbul Technical University
	<p>Chair: Asst. Prof. Dr. Emmanouil Ekmektsoglou Co-Chair: Res. Asst. Berker Pandir</p> <p>MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Humanities, Social Sciences and Arts</i></p>	<p>Chair: Asst. Prof. Dr. Abdurrahman Yılmaz Co-Chair: Res. Asst. Ahmet Yazıcı</p> <p>ELECTRICAL, ELECTRONICS, COMPUTING & MATHEMATICAL SCIENCES <i>Control and Systems Dynamics</i></p>	<p>Chair: Prof. Dr. Zeynep Gonca Girgin Co-Chair: Dr. Melis Toker Derdiyok</p> <p>HYBRID INTERDISCIPLINARY SESSION <i>Theoretical Sciences and Performance Arts</i></p>	<p>Chair: Assoc. Prof. Dr. Orkan Özcan Co-Chair: Res. Asst. Tuğba Yıldız</p> <p>SUSTAINABILITY, ENVIRONMENT, ENERGY & EARTH SCIENCES <i>Geomatics and Geographical Information Technologies</i></p>	<p>Chair: Assoc. Prof. Dr. Bilal Tütüncü Co-Chair: Res. Asst. Hande Vural Çelik</p> <p>ARCHITECTURE, URBAN PLANNING & HERITAGE <i>Landscape, Real Estate and Building Technologies</i></p>	<p>Chair: Prof. Dr. Tuncay Zorlu Co-Chair: Dr. Ayca Kizilkaya</p> <p>MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Humanities, Social Sciences and Arts</i></p>
12:00-12:15	"Serialism Beyond Dodecaphony: Serial Thinking In The Early American Minimalist Music" Orhan Torun • Istanbul Technical University	"A Lightweight Hybrid Protocol Proposal Based on Hyperelliptic Curve and ChaCha20-Poly1305 for DICOM Medical Image Encryption" Altuğ Beyhan • Istanbul Technical University	"Ultra-dilute Quantum Droplets" Mert Sulam • Istanbul Technical University	"Development of GIS-Based Nominal Real Estate Valuation Model for Urban Regeneration Applications" Suzan Doğan • Istanbul Technical University	"The Asymmetric Effects of Monetary Policy on European Housing Markets: Evidence from the 2022 Interest Rate Shock" Hüseyin Sevim • Istanbul Technical University	"Black-Box Modeling of Immersive Reverberation with Generative Artificial Intelligence Models" Yavuz Buruk • Istanbul Technical University
12:15-12:30	"The Application of Brahms' Developing Variation Technique on the Finale (Passacaglia) of 4th Symphony" Can Dilekçi • Istanbul Technical University	"Calculation of Casimir Eigenvalues and Cohomology of E6 Lie Algebra" Batuhan İLHAN • Istanbul Technical University	"Sign Transition in Dark Energy Density from Interactions" Mehvibe Dilara Pütüklü • Istanbul Technical University	"15-Minute City in Complex Metropolises: Accessibility and Investment Cost Analysis" Aysegül Edige • Istanbul Technical University	"Assessment of thermal performance through measurements in hot climate regions: The case of Medina, Saudi Arabia" Abdullah Alraichid • Istanbul Technical University	"Sabâ Expression in the Gazel Performances of Hamiyet Yüceses" Enes Çlubcu • Istanbul Technical University
12:30-12:45	"Shining Through Time: Jazz Singer Nükhet Ruacan's 1998 Live Performance Revived in the 2025 Album 'Annem Nükhet Ruacan'" Aysen Zulfikar • Istanbul Technical University	"Integrated Optimization of Two-Dimensional Cutting Paths Using Genetic Algorithms and Geometric Preprocessing" İzzet Gökşel • Istanbul Technical University	"Embodied Authorship and Invisible Labor: Task-Based Choreography in {She Wove Her Name}" Seyyide Woohzan Ayatollahi • Istanbul Technical University	"Effect of Superheated Steam Cooking on the Nutritional Value of Broccoli: A Comparison with Conventional Methods" Selin Özkapıcı • Istanbul Technical University	"Developing Urban-Scale Circularity Principles: A Cross-Scale Analysis in the Circular Economy" İrem Nur İener • Istanbul Technical University	"Five Different Worlds: An Experiment in Electronic Sound Perception in Improvising Musicians" Vladimir Seletskii • Istanbul Technical University
12:45-13:00	"Politics Of Global Environmental Governance: The Case Of Carbon Emissions Regulation In Maritime Trade" Niliden Say • Istanbul Technical University	"Strain-Induced Topological Phase Transition in 2D Bi5b Monolayer: A First-Principles Study" Recep Furkan Koç • Istanbul Technical University	—	"Investigation of the Effects of Different Culture Media on the Recombinant Production of Cold-Active Ferredoxin/ Flavodoxin-NADP+ Reductase" Kaan Dizer • Istanbul Technical University	"Location Selection for Serviced Apartments in Istanbul using MCDM Methods" Fulya Ersoy Yaşar • Istanbul Technical University	"Automated Difficulty Evaluation of Bassoon Scores" Ali Rıza SARAL • Istanbul Technical University
	<p>Chair: Prof. Dr. Zeynep Kuban Tokgöz Co-Chair: Res. Asst. Ahmet Yazıcı</p> <p>MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Music and Sonic Arts</i></p>	no session	<p>Chair: Assoc. Prof. Dr. Ashi Çalkıvk Co-Chair: Dr. Melis Toker Derdiyok</p> <p>HYBRID INTERDISCIPLINARY SESSION <i>Political Philosophy and Social Sciences</i></p>	<p>Chair: Prof. Dr. Ceren Çıracı Co-Chair: Res. Asst. Tuğba Yıldız</p> <p>SUSTAINABILITY, ENVIRONMENT, ENERGY & EARTH SCIENCES <i>Molecular Biology, Genetics and Food Science</i></p>	<p>Chair: Prof. Dr. Aytekin Çökelez Co-Chair: Res. Asst. Hatice Tuğba Karayama</p> <p>MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Humanities, Social Sciences and Arts</i></p>	<p>Chair: Prof. Dr. Tuncay Zorlu Co-Chair: Res. Asst. Hande Vural</p> <p>MARITIME, INDUSTRIAL, BUSINESS, HUMANITIES & ARTS <i>Humanities, Social Sciences and Arts</i></p>
13:00-13:15	"İlhan Koman: Geometry in Sculpture Art from Plane to Volume" Mustafa Deniz Türkoğlu • Doğuş University	—	"The Internal Structure of the Republican Party in the Pre-Trump Period" Ceren Bakkal • Kadir Has University	"In-silico Determination of Potential Antioxidant Activity of Bacteriocins Against Keap1 Using Molecular Docking and Dynamics Simulations" Salma Shrif Hussin Refaat • Istanbul Technical University	"Organized Visibility and Audience Investment in Reality Music Competitions: The Case of Produce 101 Season 2" Gizem Kurt • Istanbul Technical University	"Three Sisters in Turkish Music: An Examination of Vocal Performance Characteristics Through Three Selected Pieces from the Existing Recordings of Lale, Nerkis and Belkis Hanım" Berk Özcam • Istanbul Technical University
13:15-13:30	"Detours: Production of Aphasia" Alhareth Mohamed • Istanbul Technical University	—	"Engineering the Republic: From Kondüktör Mektebi-İ İhsani to Yıldız Technical University" Furkan Sarier • Istanbul Technical University	"Genomic Analysis of Multiple Stress-Resistant (Saccharomyces cerevisiae) Strains Obtained by Inverse Metabolic Engineering" Tuna Birgün • Istanbul Technical University	"A Thematic Analysis of Mor Ve Ötesi's Lyrics" Buğsem Gökkuş Altınel • Istanbul Technical University	"The Effect Of Different Bracing Systems On The Timbre Of The Turkish Oud" Mehmet Haşim Açıkan • Istanbul Technical University
13:30-13:45	"Fluid Dynamics of Tragedy: A Retrospective Bio-Mathematical Analysis of the Four Humors in Shakespeare's Lady Macbeth and Uşaklıgil's Bihter Ziyagil" Mustafa Deniz Türkoğlu • Doğuş University	—	"Empathy in the context of Democratic Legitimacy" Mustafa Murkan Bitilisi • Istanbul Technical University	"Characterization and Evaluation of the Biotechnological Potential of Novel Self-Sufficient CYP116 Enzyme Discovered Through a Metagenomic Approach" Başak Birdal • Istanbul Technical University	"Cyborg Doctors and the Sonic Ecology of the Emergency Department" İdil Kocabozdoğan • Istanbul Technical University	"Real-Time Generative Sound Design: Reshaping User Experience in Virtual Spaces" Beste Öztürk • Istanbul Technical University
13:45-14:00	"Climate Change Communication in Schools: How Teachers Shape the Educational Landscape" Betül Sena Öztürk • Istanbul Technical University	—	"Normative Reasons and Political Moralism" Agit Utkan • Istanbul Technical University	"Genomic Analysis and Exopolysaccharide Production in Tulum Cheese Isolate, (Loigolactobacillus coryniformis) FOL-19" İpek Tek • Istanbul Technical University	"Challenges And Strategies For Reviving The Santur In Turkey: A Sociological Analysis" Mohammad Reza Nadermanesh • Istanbul Technical University	"A Technical Comparison of Various Capturing Technologies for Tube Guitar Amplifiers for Both Performer and Listener Perspectives" Ekin Can Kollu • Istanbul Technical University
14:00-14:30	CLOSING CEREMONY (30 minutes, Main Hall)					