## 4<sup>th</sup> INTERNATIONAL GRADUATE RESEARCH SYMPOSIUM - IGRS'25



				ONLINE					
TIME				MAIN HALL					
				OPENING REMARKS					
10:00 - 11:00	Prof. Dr. Fatma Seniha GÜNER , Institute Director, Istanbul Technical University Prof. Dr. Hasan MANDAL, Rector, Istanbul Technical University								
	KEYNOTE SPEAKER  "An Academic Journey From Chemical Engineering to Robotics and Multidisciplinary Impressions of a Scientist"								
			Pr	rof. Dr. Berna ÖZKALE EDELMANN, Technical University of Munich					
				SESSION - I					
TIME	MAIN HALL	HALL - I	HALL - II	HALL - III	HALL - IV	HALL - V	HALL - VI		
	Chair: Assoc. Prof. Dr. Abdullah Aydoğan	Chair: Dr. Demet Aydoğmuş	Chair: Asst. Prof. Dr. Saeed Tasoujı Hassanpour	Chair: Assoc. Prof. Dr. Sefer Baday	Chair: Asst. Prof. Dr. Ayşe Elvan Bayraktaroğlu	Chair: Asst. Prof. Dr. Murat Yeşiloğlu	Chair: Prof. Dr. Sevinç Asilhan, Asst. Prof. Dr. Emre Avunduk		
	CHEMISTRY Inorganic Chemistry	METALLURGY AND MATERIALS ENGINEERING	MANAGEMENT ENGINEERING	DATA ENGINEERING AND BUSINESS ANALYTICS	INDUSTRIAL ENGINEERING	CONTROL AND AUTOMATION ENGINEERING	METEOROLOGICAL ENGINEERING		
	"The Design and Application of Novel Post-Metallocene Catalysts For Olefin Polymerization" Onder Güneş, Ozan Sanlı Şentürk - Istanbul Technical University	Composite and Polymer Materials "Thermal and Mechanical Properties of Reduced Graphene Oxide Reinforced Polypropylene Composites"	Marketing "The Adoption of Smart Small Home Appliances: An Integrated Model of Consumer Acceptance and Behavior"	Predictive Analytics and Machine Learning in Business "Analyzing Brokerage Firm Trading Behavior via Supervised Learning: A Comparative Study on BIST 10" Kubilay Karaçam - Istanbul Technical University	Decision Making "A Bayesian Network-Based Approach for Analyzing Railway Accidents"	Advances in Automatic Control Engineering "Lane Change Desicion Making for Autonomous Vehicles By Using Adversarial Learning Methods"	Atmosphere, Meteorology "Heatwave Analysis Approach" Anil Eken, Sevinp Asilman - Istanbul Technical University		
11:00 - 12:00	"Investigation of Fluorescence Properties of ZIF-3 Structures Modified With Graphitic Quantum Dots" Hillal Nazan Agar, Caner Uniu- Istanbul Technical University	Cemile Gürer, Yetiz Köse, İrem Düzenli, Fatma Seniha Güner - İstanbul Technical Üniversity ' "Characterization of Talc and Reduced Graphone Oxide Reinforced Polypropylene Composites: Thermal, Mechanical and Structural Properties"  irem Düzenli, Yeliz Köse, Cemile Gürer, Yavuz Emre Yağcı, Fatma Seniha Güner - Istanbul Technical University	Betül İmamoğlu, Huriye Şebnem Burnaz - Istanbul Technical University  "Understanding Consumer Acceptance and Purchase Intentions in Unmanned Retail Stores"  Gözde Erdoğan - Istanbul Technical University	Sentiment Analysis and Opinion Mining "Impact of Weekly vs Daily Sentiment Scores on Price Direction Forecast"	Derya Cephe, Umut Asan - Istanbul Technical University  "A Comparative Analysis of Machine Learning and McDM Sorting Methods in Electric Vehicle Selection" Mehmet Demir, Umut Asan - Istanbul Technical University	Aytug Onurhan Efli, Mustafa Dogan - Istanbul Technical University  "Control Allocation Strategies for Dual-System VTOL UAVs Under Control Surface Failures: Enhancing Fault Tolerance and Flight Stability" Bilal Badur, Fikret Çalışkan - Istanbul Technical University	Renewable Energy "Repowering at Türkiye's Leading Power Plant: An Analysis of Energy Production Increase"		
	Organic Chemistry "Synthesis Of Polymers Containing Supramolecular Components In The Pendant Or Main Chain"	Extractive Metallurgy "investigation of Reduction of Chromite Ore with Hydrogen"	"The Effect of ESG Ratings on Firm's Financial Performance in Borsa Istanbul"	Ahmet Berkay Gültekin, Alp Üstündag - <i>istanbul Technical University</i> Big Data Analytics for Decision-Making	"Multi Criteria Decision Making for Selecting Best Banking Service Channel"  Mustafa Akça - Istanbul Technical University	"New Generation 4-D Flight Management System Design for the Fighter Jets" Kaan Telloglu, Fikret Çalışkan - Istanbul Technical University	lpeknur Hazar, Mehmet Ozkan Başar, Elçin Tan - <i>Istanbul Technical University</i> MINING ENGINEERING		
	Hafize Reva Bayraktar, Abdullah Aydoğan - <i>Istanbul Technical University</i> Polymer Chemistry	Ayse Deniz, Çağdaş Ekin Zöhra, Selçuk Kan, Ceren Imer, Gökhan Basman, Yavuzhan Kaya, Onuralp Yücel - Istanbul Technical University  "Production and Characterization of Lanthanum Hexaboride Powder"	Alper Alaker, Oktay Taş - Istanbul Technical University "TEFAS's Effect on the Turkish Mutual Funds Landscape"	"Automated Plastic Waste Detection on Coastal Areas Using UAVs and Deep Learning" Hesam Hatamzadeh Khanghahi, Şuler Isaloğiu - Istanbul Technical University  "Automatic Managhahi, Sule Carling Association Particular Inc	Engineering Management "Customer Preferences For Mobile Operating Systems in Smartphones Using Conjoint Analysis"	Applications of Control Engineering "Fuzzy Gain Decision for Different Type Aircrafts with Dynamic-pitch-control Envelope Cue"	Excavation Mechanics		
"D	ual Radical and Singlet Oxygen Pathways in Polybutadiene Photovulcanization: A Novel Approach Using Phenylacylbromide under UV-A Irradiation for Advanced Crosslinked Films"  Ragib Talha Uzun, Barış Kiskan - Istanbul Technical University	Deniz Nalcı, Mehtap Arslan-Kaba, Güldem Kartal Şireli, Kürşat Kazmanlı - <i>Istanbul Technical University</i>	Mehmet Sami Boz - Boğaziçi University	"Agentic Workflows for Self-Service Analytics Applications in E-Commerce"  Taylan Yurtsever - Istanbul Technical University	Cansu Aksu - Istanbul Technical University	Ali Karaduman, liker Üstoğlu - <i>Istanbul Technical University</i>	"Machine Learning-Based Prediction of Thrust Force in Tunnel Boring Machines" Hadi Alizadeh, Ömür Acaroglu - Istanbul Technical University		
12:00 - 13:00				BREAK					
				SESSION - II					
	MAIN HALL	HALL - I	HALL - II	HALL - III	HALL - IV	HALL - V	HALL - VI		
TIME									
	Chair: Asst. Prof. Dr. Berna Doğan, Asst. Prof. Dr. Hüseyin Enis Karahan  CHEMISTRY	Chair: Dr. Yonca Alkan Göksu	Chair: Asst. Prof. Dr. Saeed Tasoujı Hassanpour	Chair: Prof. Dr. Seher Melike Aydoğan	Chair: Assoc. Prof. Dr. Umut Asan	Chair: Asst. Prof. Dr. Erhan Yumuk	Chair: Asst. Prof. Dr. Ramazan Yeniçeri		
	Drug Design & Drug Delivery (Computational and Experimental) "Exploring New MAO-B Selective Inhibitors Through in-silico Methods"	METALLURGY AND MATERIALS ENGINEERING	MANAGEMENT  Economics	MATHEMATICAL ENGINEERING  Applied Mathematics	INDUSTRIAL ENGINEERING  Engineering Management	CONTROL AND AUTOMATION ENGINEERING  Applications of Control Engineering	DEFENSE TECHNOLOGIES  Structural Design and Analysis		
	All Aksu, Mine Yursever, Fethiye Alylin Sungur - Istanbul Technical University  CHEMICAL ENGINEERING	Metals and Alloys  "Precious Metal (Au, Pd, Pt, Rh) Recovery Using Torrefied Biomass Species Such As Forest, Marine And Agricultural Biomass"  Cansu Kargi, Malmut Ercan Agma, Hanzade Haykin Agma, Nil Ozbek, Serdar Yaman - <i>Istanbul Technical University</i>	"Central Bank Digital Currencies (CBDCs): a countermeasure to Anti-Money Laundering (AML) challenges posed by cryptocurrencies?"  Albina Gaisina, Matthias Finger - Istanbul Technical University	"Effects of Weak Heterogeneity on Nonlinear Love Wave Interactions" Berna Yavas, Semra Ahmetolan, Ali Demirci - Istanbul Technical University	"Impact of Organizational Life Cycle on R&D Project Prioritization Criteria" Furkan Yasin Taksim, Cafer Erhan Bozdağ - Istanbul Technical University	"Performance Comparison of Guidance Algorithms for Aerial Vehicles: A Software-In-The-Loop Based Approach"  Alper Makaraç, Mustafa Doğan - Istanbul Technical University	"Finite Element Analysis Of Crack Growth Behavior in The Presence Of Crack-Arresting Holes" Buse Yaşın Aydın, İbrahim Özkol, Mustafa Tolga Yavuz - Istanbul Technical University		
13:00 - 14:00	Hydrogen Technologies, Fuels Cells, Energy Storage Materials	"Effect of Niobium Addition on the Microstructural Features of Titanium Alloys for Dental Implants" Sena Burcu Hayırcı, Faiz Muhaffel, Hüseyin Çimenoğlu - <i>Istanbul Technical University</i>	Finance "Investor Attention and Asymmetric Conditional Volatility: Evidence from E-GARCH-X and GJR-GARCH-X Models"  Müge Özdemir, Oktay Taş - Istanbu Technical University	"Understanding Predator- Prey Dynamics Through Equilibrium State Classification" Kerime Nur Kavadar, Al Demirci - Istanbul Technical University	"Sector-Specific Supplier Evaluation Based on LARGS Dimensions" Gozde Çinkay, Şeyda Serdarasan - Istanbul Technical University	"An Optimization Based Flight Control Law Design for Fighter Aircraft"  Bora Akanyldiz, Yaprak Yaliçin - Istanbul Technical University	Unmanned Vehicles "Heuristic Approach to UAV Selection with Fuzzy Logic and MADM Techniques" Emre Yüksek - Istanbul Technical University		
	"Biomass-Derived Activated Carbon as Electrode Material for Supercapacitors"  Damla Kökmen , Anul Yılmaz, Nahid A. Keshtiban, ili Gelir, Nil Özbek, Honzade Açıma, Fordar Yaman - İstanbul Technical University	"Effect of Heat Treatment on Inconel 718 Superalloy Produced by Cold Spray Additive Manufacturing" Serra Bayram, Erdem Balcı, Aptullah Karakaş, Murat Baydoğan - Istanbul Technical University	"Return Predictability and Attention-Based Trading Strategies: Casual and Time-Varying Volatility Dynamics in Borsa Istanbul"  Müge Özdemir, Oktay Taş - Istanbul Technical University	"Exploring Rayleigh Waves in Layered Media" Tuğçe Sezer, Semra Ahmetolan, Ayşe Peker Doble, Ali Demirci - <i>Istanbul Technical University</i>	"Structuring Challenges for Textile Industry in Adopting the Digital Product Passport"  Sena Nur Dursun, Şeyda Serdarasan - Istanbul Technical University	"Adaptive Kalman Filter-Based Gyroscope Error Compensation Using Magnetometer and Accelerometer Data for IMU Sensors"  Mehmet Eren Savaştürk, Mustafa Doğan - Istanbul Technical University	"Comparative Analysis of Object Detection and Tracking Algorithms for UAVs"  Merve Ismailveliogilu, Mustafa Dogan - Istanbul Technical University		
	Modelling and Computational Systems "Machine Learning-Based Prediction of Ftr Spectral Peaks for Biomass Characterization" Talha Saĝiş, Anıl Yılmaz, Hanzade Haykırı-Açma, Serdar Yaman - Istanbul Technical University	"Recycling-Driven Variations in Mechanical Properties and Weldability of 6XXX Series Aluminium Alloys for Electric Vehicle Structural Parts"  Zeynep Tulku Özen, Necip Ürlü - İstanbul Technical University	"How Does Firm Esg Impact Financial Performance After Covid-Era? A Worldwide Analysis"  Sirma Şeker, Cumhur Ekinci - Istanbul Technical University	"Symmetry Analysis on Rosenau Type Equations" Tugce Sezer, Cihangir Özemir - Istanbul Technical University	Knowledge Management "Understanding University Reputation * Stakeholder-Centered Model for Reputation" Orhan Dursun, Çiğdem Altın Gümüşsoy - Istanbul Technical University	"Design and Analysis of a Dual Layer Disturbance Observer Based Controller for Suppressing Internal and External Disturbances for Longitudanel Axis in a Fixed Wing Aircraft"  Merve Demiroğlu, İlker Üstoğlu, Yusuf Sincak - Istanbul Technical University	"Optimized Visual Odometry and Satellite Image Matching-Based Localization for UAVs in GPS-Denied Environments"  Omer Sefa Öztürk, Alptekin Yıldız Istanbul Technical University		
	Chair: Assoc. Prof. Dr. Ahmet Gün, Asst. Prof. Dr. Süha Tuna	Chair: Asst. Prof. Dr. Cevat Fahir Arısoy	Chair: Asst. Prof. Dr. Saeed Tasoujı Hassanpour	Chair: Prof. Dr. Seher Melike Aydoğan	Chair: Assoc. Prof. Dr. Seda Yanık	Chair: Assoc. Prof. Dr. Ahmet Onat	Chair: Asst. Prof. Dr. Ramazan Yeniçeri		
	INFORMATICS								
	Computational Design Tools and Methods "A Decision Support Model Proposal For Urban Green Space Site Selection Problem Based on Multi-Criteria Decision Making"  Erdal Kondakci, Gülen Çağdaş - Istanbul Technical University	METALLURGY AND MATERIALS ENGINEERING	MANAGEMENT		INDUSTRIAL ENGINEERING	CONTROL AND AUTOMATION ENGINEERING	DEFENSE TECHNOLOGIES		
	"Computation Memorality Model Based on Object Size" Fatma Seven, Sema Alaçam - Istanbul Technical University	Surface Treatment and Coatings "Enhancing CMAS and Hot Corrosion Resistance of YSZ Thermal Barric Coatings via Aluminium Cold Spray" Ahmed Emin Tok, Faiz Whalffel, Whammed Karabas - Istanbul Technical University	Human Resource Management "The Impact of Remote Work on Presenteeism During the COVID-19 Pandemic" Description of Remote Work on Presenteeism During the COVID-19 Pandemic"	MATHEMATICAL ENGINEERING  Data Science and Machine Learning	Industrial Data Analytics "Predicting the Closing Time of Debt Files in Legal Stage Using Machine Learning and Deep Learning Methods"	Applications of Control Engineering "Enhanced Aircraft Control Through Total Energy Control Systems: A Comparative Study with Conventional Autopilots" Rumeysa Kokodju, Müjde Güzekaya - Istanbul Technical University	Structural Design and Analysis "Optimization and Finite Element Analysis of Metastructures for Vibration Mitigation"  Elif Nur 'Agar, Kaan Vidics', Isalanbul Technical University		
14:00 - 15:00	COMPUTATIONAL SCIENCE AND ENGINEERING	"Effect of Pack Aluminizing on Hydrogen Charging Behavior of Ti6Al4V Alloy Fabricated by Selective Laser Melting" Belgin Alaman, Burak Bayram, Erdem Balcı, Murat Baydoğan - Istanbul Technical University	Deniz Mat Artun, Fatma Küskü - <i>Istanbul Technical University</i> Marketing	"A Case Study in Time Series Classification Using Machine Learning and Deep Learning" Barış Küçük, Alabey Kaygun - <i>Istanbul Technical University</i>	Şeyda İrem Bilgehan, Başar Öztayşi - <i>Istanbul Technical University</i> Manufacturing Management	"Enhancing Aircraft Avionics Safety: Integrating STPA with ARP4761 Analysis" Sukrü Can Sulak - Istanbul Technical University	"Parametric Optimization of Semi-Octagon Re-entrant Auxetic Structures for Energy Absorption" Şenay Yener, Kaan Yıldız - Istanbul Technical University		
	Computational Fluid Dynamics "Multi-Objective Optimization of Airfoil Geometry for Aerodynamic Efficiency and Noise Reduction Using Bézier Parameterization"	"Comparative Evaluation of Surface Treatments: Anodizing and Micro-Arc Oxidation for Al-Si Cast Alloys" Furkan Tezer, Faiz Muhaffel - Istanbul Technical University	"Navigating the Paradox of Connectivity and Isolation: Impacts on Digital Nomads' Psychological Well-Being"  Mahin Farshbaf Maherian, Adnan Veysel Ertemel - Istanbul Technical University  Organization	Mathematical Modeling "Modeling Rare Metal Market Dynamics: A Nonlinear Approach Technical University Furkan Emre Işik, Al Demici - Istandur Technical University	"Analysing the Automotive Production: A Bibliometric Analysis on Lean-Green Management"  Ayse Melissa Ergün, Hür Bersam Sidal Bolat - Istanbul Technical University	"Robust Attitude Control of the F16 Aircraft Using Incremental Nonlinear Dynamic Inversion" Yasin Şahin, liker Üstoğlu - İstanbul Technical University	"Design and Modeling of a Nonlinear Bi-Axial Dynamic Vibration Absorber for Helicopter Applications" Resmiye Agan, Vedat Ziya Doğan, Hailt Süleyman Türkmen, Ali Tatar - Istanbul Technical University		
	Ali İhsan İşgüder, Baha Zafer, Melike Nikbay - <i>Istanbul Technical University</i> Computational Biology	"A Comparative Study of Ni-SiC and Micro-Arc Oxidation Coatings Produced on the Al-Si Casting Alloy" Ozkan Karaman, Faiz Muhaffel - Istanbul Technical University	"Organizing Through Code: A Bibliometric Review of Algorithms in Organizational Contexts"  Hakan Sanrı - University of Glasgow	and Energy, a Sound realist resident	"Improvement Study in The Inner Door Production Area With Lean Production Approach" Isa Emre Gül, Seda Yanık - Istanbul Technical University	"Immersion and Invariance Disturbance Observer based Discrete Time Vector Control of BLDC Machines"  Ziya Cem Salış - Istanbul Technical University	"Computational Analysis of Metallic Structures Subjected to Impact Loading Using LS-Dyna"  Ūmran Tūrkan, Vedat Ziya Doğan - Istanbul Technical University		
	"Molecular Dynamics Analysis of CHKZ Mutations at the C-lobe of the Kinase Domain"  Cihan Uğur Olçu, Clara Xazal Buran, Gizem Dinler Doğanay, Levent Doğanay, Mert Gür- İstanbul Technical University								
	Chair: Assoc. Prof. Dr. Volkan Müjdat Tiryaki	Chair: Asst. Prof. Dr. Erçin Çağan Duran	Chair: Asst. Prof. Dr. Saeed Tasoujı Hassanpour, Asst. Prof. Dr. Umut Kuruüzüm	Chair: Prof. Dr. Esra Özkan Zayim	Chair: Asst. Prof. Dr. Saltuk Duran	Chair: Asst. Prof. Dr. Ali Yeşilyurt	Chair: Asst. Prof. Dr. Ramazan Yeniçeri, Dr. Abdülkadir Ünal		
		METALLURGY AND MATERIALS ENGINEERING	MANAGEMENT				DEFENSE TECHNOLOGIES		
	APPLIED INFORMATICS	Corrosion and Wear "Fabrication of Al Matrix MMC Cold Spray Coatings on Magnesium Alloy AZ31"	MANAGEMENT  Production Management	PHYSICS ENGINEERING Outlies and Photonics	HISTORY OF SCIENCE AND TECHNOLOGY	EARTHQUAKE ENGINEERING	Remote Sensing "A Hybrid Preprocessing Approach Based on Simulation Data for Embedded Object Detection Under an Inhomogeneous Surface"		
	Medical Image Analysis "Improving Tumor Segmentation Performance in Breast MRI via U-Net Based Deep Learning Approach" Alptuğ Şeref Ayyıldız, İbrahim Akduman, Akeksandar Janjic - Istanbul Technical University	Efecan Madazlı, Hüseyin Çimenoğlu, Sezgin Cengiz, Faiz Muhaffel, Erdem Balcı - <i>Istanbul Technical University</i> Mechanical Metallurgy	"Performance Evaluation Model Based on Balanced Scorecard for Industry 4.0 Applications in the Fast Moving Consumer Goods Sector (FMCG)"  Ceren Dilbaz, Hür Bersam Sidal Bolat - Istanbul Technical University	Optics and Photonics "Imaging Ellipsometry for Material Characterization and Defect Analysis" Furkan Ylduz, Esra Zayin, Muharrem Aşar - Istanbul Technical University	History of Engineering "From Dieppe to Normandy: Technological Innovations and the Reclamation of Offensive Initiative in World War II"	Artificial Intelligence, Machine Learning, and Deep Learning in Earthquake Engineering "Detection of Longitudinal Reinforcement Buckling in Reinforced Concrete Columns by a Deep Learning Method" Bahadir Gülegmen, Omer Tügrul Turan - Istanbul Technical University	All Bathan Bagcater, Al Yapar - Istanbul Technical University  RAILWAY SYSTEMS ENGINEERING		
15:00 - 16:00	"Deep Learning-Based Breast Tumor Detection in MRI Using Faster R-CNN" Şeyma Nur Tufan, Aleksandar Janjie, İbrahim Akduman - <i>Istanbul Technical University</i>	"Effects of Stress Relief Annealing Time on Mechanical Properties and Operating Cost in Lamellar Graphite Cast Iron Engine Blocks"  Furkan Üstün, Ali Kalyon - Yalova Ulriversity  AMATERIAN COURT OF AND ENGINEERING	"Supplier Performance Evaluation with Balanced Scorecard" Hanife Özcan, Hür Bersam Sidal - Istanbul Technical University	High Energy and Particle Physics "Dynamo Process in Proto-Neutron Stars" irem Bakır, Kazım' Avuz Ekşi - Istanbul Technical University	Göktuğ Berk Çakı - <i>Istanbul Technical University</i> <b>History of Sciences</b>	"Estimating Equivalent Damping Ratio of Conventional Shear Walls by Machine Learning Methods" Siamak Tahaei Yaghoubi, Zeynep Tuna Deger - Istanbul Technical University	Railway Systems Engineering		
	"Prediction of Microsatellite Status Using Deep Neural Network" Fatma Vildan Engin, Ender Mete Eksjoğlu - <i>Institute of Science and Technology</i>	MATERIAL SCIENCE AND ENGINEERING  Nanomaterials	"A Quantitative Approach To Sustainability: Applying Multi-Criteria Decision-Making Techniques And Data Envelopment Analysis Models"  Musa Aktaş, Ferhan Çebi - Istanbul Technical University	"Constraints On New Physics With Light Mediators And Generalized Neutrino Interactions Viz Coherent Elastic Neutrino Nucleus Scattering"  Sevgi Karadag, Muhammed Deniz, Henry T. Wong - Istanbul Technical University	"Brief History of Artificial Intelligence Approaches" İlkem Ahu Şahin, Aytekin Çökelez - <i>Istanbul Technical University</i>	Performance-Based Seismic Assessment and Design "Seismic Performance Assessment of Irregular RC Structures Using the Extended N2 Method"	"Fiber Bragg Grating Sensor: Principles, Applications, and Emerging Trends Serhat Boynukalin, Kemal Atakan Kirca - Istanbul Technical University		
	Data Analysis "Optimization Potential of Machine Learning-Based Algorithms in Neonatal Parenteral Nutrition Management: A Systematic Review"	"A Study About Tin Nanoparticles and Production of Core-shell Structure"  Ayge Zuhal Karakaş, Ş. Samet Kaplan, M. Şeref Sonmez - Istanbul Technical University	ECONOMY  Financial Crises and Macroprudential Policies	Mathematical Physics "Investigation of Structural and Optoelectronic Properties of metal/ZnS Junction under Density Functional Theory (DFT)"	"Scientific Tendencies in the Context of the Annals of Electricity, Magnetism, and Chemistry (1836-1843) in England" Tugoe Esenduran - Islanbul Technical University	Zekeriya Semih Aygūn, Reşat Atalay Oyguç - Istanbul Technical University  "Seismic Performance of Irregular RC Frames Retrofitted with TnT BRBs"	Signaling Systems in Railways "A Safety-Critical Railway Interlocking Architecture Based on SCADE and HIMA PLCs with Python-Driven Simulation and Control" Serhat Boynukalin, Ferde Berra Köseoğlu, Erdem Kisaç - Istanbul Technical University		
	Sümeyye Nalbat, Mustafa Alpkan Çiçek, Serkan Türkeli, Mustafa Doğan - <i>Istanbul Technical University</i>	Ceramics, Glass, Refractory Materials "Improvement of the Selonium Rutention and Control of the Color Stability in Selenium Containing Glasses" Ellf Fagiye Yaylacı, Merve Akdemir Kullüg, Almet Caner Kayauğı, Reha Yavuz - Istanbul Technical University	"Financial Contagion: Dynamic Correlations Approach" Esra Çakır - <i>Istanbul Technical University</i>	Haris Kulosmanovic, Murat Çalışkan - Yıldız Technical University		Zeynep Orman, Resat Oyguc - Istanbul Technical University	"Energy Efficiency Optimization through Metro Scheduling: Mixed-Integer Linear Programming (MILP) and Genetic Algorithm Approaches"  Mustafa Karaipek, Abdurrahman Yilmaz - Istanbul Technical University		
	Chair: Asst. Prof. Dr. Mehmet Akif Yazıcı	Chair: Prof. Dr. Barış Kışkan, Assoc. Prof. Dr. Birgül Benli	Chair: Prof.Dr. Şevkiye Şence Türk, Prof. Dr. Levent Kırval, Assoc. Prof. Dr. Ceren Bilgin Güney	Chair: Prof. Dr. Nazan Okur		Chair: Res. Asst. Mustafa Mert Eyüpgiller	Chair: Asst. Prof. Dr. İhsan Burak Kulga		
			REAL ESTATE DEVELOPMENT						
		POLYMER SCIENCE AND TECHNOLOGY	Geospatial Analysis in Real Estate "A Spatial and Investment-Oriented Site Selection Model for EV Charging Stations: The Case of Istanbul"			EARTHQUAKE ENGINEERING	PETROLEUM AND NATURAL GAS ENGINEERING		
	APPLIED INFORMATICS	Material Science "Preparation and Characterization of Sulfonated Polysulfone for Proton Exchange Membrane Fuel Cells"	Handan Kaplan, Kerem Yavuz Arslanlı - <i>Istanbul Technical University</i> Real Estate Development	TEXTILE ENGINEERING		Experimental Investigation of Reinforced Concrete Building Elements	Geothermal Engineering "Utilization of Carbon Dioxide Gas (CO2) for Gas Lift Systems in Geothermal Wells"		
	Computational Electromagnetics "Singular Integral Treatment of Nyström Method for Electromagnetic Scattering Problems" Falk Yaman, Mehmet (Sporier - Istanbul Technical University	"Preparation and Characterization of Sulfonated Polysulfone for Proton Exchange Membrane Fuel Cells" Turan Can Ozmen - Islanbul Technical University  NANOSCIENCE AND NANOENGINEERING	"An Event-Driven Architecture in Real Estate Development" Ozlem Sertbaş, Hakan Yaman - Istanbul Technical University	Textile Clothing and Fashion Design		"Enhancing Seismic Resilience of Substandard RC Beam-Column Joints with All-Steel Tube-in-Tube Buckling-Restrained Braces: A Shake Table Test"  Evrim Oyguç, Abdul Hayır, Reşat Oyguç, Onur Şeker, Bülent Akbaş - <i>Istanbul Technical University</i>	"Utilization of Carbon Dioxide Gas (COZ) for Gas Lint Systems in Geothermal Wells" Force Lugembe Ndege, Ömer Inanç Türeyen - Istandul Technical University  Natural Gas Engineering		
16:00 - 17:00	"Integral Equation based Eigenmode Solution of Optical Wavejuides with Arbitrary Cross Section"  Micahit Hüseyin Ozdilekler, Mehmet Çayören - Istanbul Technical University	Nanoparticles	MARITIME STUDIES	"Real Time Production Management in Garment Manufacturing Using IoT-Based Process Monitoring Devices (PMDs)"  Bülent Koç, Selin Hanife Eryürük - İstanbul Technical University		Structural and Geotechnical Earthquake Engineering "Design and Comparison of Different Types of Reinforced Concrete Slab Systems For Multi-storey Buildings Ahmet Jabban, Kadir Güller - Istanbul Technical University	"Natural Gas Engineering "Natural Gas Hydrate Modelling" Devrim Başar Han - Istanbul Technical University		
	Cybersecurity  "Usability of Token-based and Remote Electronic Signatures: A User Experience Study"	"Radiation Attenuation of MWCNT and Magnetic Nanoparticle Reinforced PMMA Comparative Analysis of Coefficient"  Deniz Hande Aydın, Nilgün Baydoğan - Istanbul Technical University	Maritime Human Resources "Importance of Safety Awareness and Safety Culture Onboard with Alternative Fuels"  Aysel Camci, Firat Bolat - Istanbul Technical University	Sustainability in Textile and Fashion Industries "Statistical Analysis of Short Fiber Content and Tenacity Using Exponential Regression" Çağdaş Aslan, Selin Hanife Eryurük, Michael Will - <i>Istanbul Technical University</i>		"Seismic Performance Enhancement of RC Coupling Beams Using Shape Memory Alloy Devices" Ali Attariyan, Beyza Taşkın, Kıvanç Taşkın - Istanbul Technical University	Reservoir Engineering "A Machine Learning Approach to Forecast Production Performance of Hydraulically Fractured Horizontal Wells in Tight Oil Sandstone Reservoirs" Ferhat Yurttagul, Burak Kulga - Istanbul Technical University		
	Omer Ege, Kemal Biçakcı - İstanbul Technical University	Polymer and Nano Composites "Thermo-responsive Pnipaam Based Hydrogels with Bio-inspired Additives for Biomedical Applications" Rabia Ylimaz, Ozgur Ylimaz, Brigul Benli - Islanbul Technical University	SHIPBUILDING AND OCEAN ENGINEERING			"Preliminary Study on St. İlyas Church Damaged in the Kahramanmaraş Earthquakes" Kerem Kurnaz, Yunus Arca, Elif Durgut, Sinan Acikgöz, Medine İspir Arslan - Istanbul Technical University	"Comparison of Therman February States of Stat		
			Marine Environmental Impact and Pollution Control "The Penglai 19.3 Incidents: Failures, Response, And Regulatory Lessons" Guiled Makaran, Ceren Bigin Güney - Stanbu/ Technical University						

**12 MAY 2025, MONDAY** 

## 4<sup>th</sup> INTERNATIONAL GRADUATE RESEARCH SYMPOSIUM - IGRS'25



				13 MAY 2025, TUESDAY			
				ONLINE			
				SESSION - III			
TIME	MAIN HALL	HALL - I	HALL - II	HALL - III	HALL - IV	HALL - V	HALL - VI
	Chair: Asst. Prof. Dr. Recep Gül	Chair: Assoc. Prof. Dr. Umut Almaç	Chair: Assoc. Prof. Dr. Almıla Büyüktaşkın	Chair: Assoc. Prof. Dr. Özge Özdemir	Chair: Prof. Dr. Mehmet Murat Monkul	Chair: Prof. Dr. Üner Çolak	Chair: Assoc. Prof. Dr. Ersin Sayar
09:00 - 10:00	MUSICOLOGY AND MUSIC THEORY  Music Theory  "Exploring Perde-Çeşni Transformations in Tanburi Cemil Bey's Instrumental Works within Nikriz Makam"  Buraik Kesgin - Istanbul Technical University  "Analysis Of Vertical Structures In The Context Of Set Theory In Ivan Wyschnegradsky's 24 Preludes In Quarter Tone System For Two Pianos, Op. 22"  Selguic Camberk Degleikin - Istanbul Technical University  "Folk Music And Classical Composition: A New Framework in Scottish Music Based on Bartok's Three Folk Music Categorizations"  Şenay Yllmaz - Istanbul Technical University  "Harmony in Brouwer's Late Period: Use of Extended Tonality in the First Movement of Del Pensador"  Tamer Çelik, Recep Gül - Istanbul Technical University	ARCHITECTURE  Conservation and Restoration  "The Rural Settlement Structure and the Challenges of Preserving Traditional Housing in Tokat Bağbaşı (İbibse) Village" Erva Köşker, Zeynep Eres Özdoğan - Istanbul Technical University  "Examination of the Transformation of Kırklareli Urban Conservation Area and its Surroundings between 2004 and 2022 in the Context of Conservation and Sustainability"  Zeynep Gökçen, Zeynep Eres Özdoğan - Istanbul Technical University  "Facade Finishes in Early 20th Century Istanbul: History and State of Conservation" Bersu Çelik, İşil Polat Pekmezci - Istanbul Technical University  "Ottoman Brick Stamps"  Nevriye Öztürk, Gülsün Tanyeli - Istanbul Technical University	ARCHITECTURE  Building Construction Technologies  "Impact of Deterioration Due to Environmental Factors on Selsmic Performance of Traditional Timber Buildings in the Historical Peninsula in Istanbul" Abdullatif Sankays, Caner Göger - Istanbul Technical University  "Evaluation Of Damage Mechanisms Of Reinforced Concrete Industrial Structures in Past Earthquakes in Turkey" Bahar Şevli, Caner Göger - Istanbul Technical University  "Evaluation of Light Steel Structured Housing According to Construction Systems" Burgin Firtina, Caner Göger - Istanbul Technical University  "Evaluation of Damage Mechanisms in Stone Structured Houses Due to Earthquakes in Turkey and Surrounding Areas" Sarvin Iravani Ghadim, Caner Göger - Istanbul Technical University	AERONAUTICAL AND ASTRONAUTICAL ENGINEERING  Aircraft Design, Flight Dynamics And Performance  "External Store Separation From Flighter Aircraft"  Ahmet Kulsay Dere, Hayri Acar Istanbul Technical University  "Winglet Design, Optimization and Performance Analysis for a Trainer Aircraft"  Çadjar Yakn, Hayri Acar. Serhat Yilmaz. Turkish National Defence University  "Sensitivity Analysis of Hypersonic Glide Vehicle Trajectory Under Aerodynamic and Atmospheric Variations"  Ekin Gözlükaya, Halli Ersin Söken - Middle East Technical University  Rotary Wing Aircraft  "A Study on Hover and Forward Flight Performance of S70A-28D (UH-60L Black Hawk) Helicopter to obtain Cruise Chart by using Momentum and Blade Element Momentum Theory"  Mehrnet Tayfun Ülbegli, Özge Özdemir - Turkish National Defence University	Geotechnics  "Modelling of Lateral Spreading of Sandy Soils" Hamed Feizollahzadeh Arabili - Istanbul Technical University  Environmental Geotechnics  "Evaluation of Geotechnical Characteristics of Recycled Concrete Aggregate-EAF Slag Mixtures" Seyedsina Norouzian, Bilal Korkmaz, Asil Yaipin Dayogliu - Istanbul Technical University  Geotechnical Earthquake Engineering "Dynamic Site Response Analyses for A Site with A Deep Cut" Yueuf Şahin, Gürkan Özden - Istanbul Technical University	ENERGY SCIENCE AND TECHNOLOGY  Computational Heat and Mass Transfer  "A State-of-Charge Based Experimental and Numerical Investigation of Li-lon Battery Heat Generation and Temperature Distribution"  Barış İşıklar, Ceyda Kök, Nergiz Gürbüz Karslıoğlu, Hasan Celal Malkoç, Sevan Karabeloğlu, Senem Şentürk Lüle, Rahim Jafari, Tuba Okutucu Özyurt-  Istanbul Technical University  "Numerical Investigation of Engine Cooling Using Nanofluids"  Metehan Duman, Tuba Okutucu Özyurt, Zafer Dursunkaya - Istanbul Technical University  "Electrochemical and Thermal Modeling of Lithium Batteries for Temperature Distribution Based on Cathode Materials"  Sıdıka Vişne, Tuba Okutucu Özyurt, Sevan Karabeloğlu, Rahim Jafari - Istanbul Technical University  "Flow Control and Thermal Behavior of Bearings Using a Proportional Valve in a Closed-Loop Lubrication System for Turbofan Engines"  Yasin İnce, İhan Kocaarslan - Istanbul Technical University	MECHANICAL ENGINEERING  Computational Fluid Dynamics  "Optimization of Thermal-Flow Performance in Close Circuit Cooling Towers" Ele Gürle, Tahsin Engin - Istanbul Technical University  "Analysis of Effects of Tip Clearance on Axial Pump Performance" Mehmet Denze Pagan, Levent Kavurmanoglu - Istanbul Technical University  "Aerodynamic Performance Enhancement of a 27-inch APC Propeller Through Geometric Modifications" Mehmet Emin Arslan, Settaç Cadiror-Istanbul Technical University  "Optimization of Polymer Melt Impregnation Systems by Extrusion Method" Mehmet Usta, Ali Ihsan Koca, Mustafa Doğu - Istanbul Technical University
	Chair: Prof. Dr. Burcu Yıldız	Chair: Dr. Görkem Günay	Chair: Assoc. Prof. Dr. Tarık Serhat Bozkurt	Chair: Assoc. Prof. Dr. Emre Koyuncu	Chair: Assoc. Prof. Dr. Deniz Artan	Chair: Asst. Prof. Dr. Sevan Karabetoğlu	Chair: Asst. Prof. Dr. Korhan Şahin
10:00 - 11:00	MUSICOLOGY AND MUSIC THEORY  Popular Music  "It's Corn": From Everyday Life's 'Sound' to Viral Musical Meme"  Cevher Sangul - Istanbul Technical University  "The Issue of "Originality" in Arabesk Music: Analysis of Musical Borrowings, Similarities, and Production Practices from Arab Music"  Yight Sangul - Istanbul Technical University  Historical Musicology  "Analysis of Some Makams From The Arabic Music Conference 1932"  Mchamed Mostafa Ahmed Mchamed - Istanbul Technical University  "Music as 'Refuge' From Reality: Schopenhauerian Aesthetics Revisited"  Selim Güre - Istanbul Technical University	ARCHITECTURE  Architectural History  "Rural Houses in Renaissance Architecture: Proposals of Sebastiano Serilo according to the Social Hierarchies in his Sixth Book"  E. Merve Aksoy Oral, Aygūl Agir - Istanbul Technical University  "Spatial Representation in French New Wave Cinema: An Analysis Through Agnès Varda's Cléo De 5 À 7 (1962) Film"  Miraç Kaykulu, Demet Arslan Dinçay - Istanbul Technical University  "Legitimisation through Elevation: Romanos' Myrelaion"  Omer Faruk Ulusoy, Bilge Ar - Istanbul Technical University  "Furniture Consumption in Istanbul at the Beginning of the 20th Century: The Role of Periodicals"  Sezin Dirihan, V. Gül Cephanedigli - Istanbul Technical University	ARCHITECTURE  Building Construction Technologies  "Evaluation of Retrofitting Techniques in Reinforced Concrete Buildings" Sinan Sarvan, Caner Göçer - Istanbul Technical University  "Evaluation of the Seismic Performance of Traditional Akçakese Houses in Relation to Structural Deterioration" Zeynep Dikyer, Caner Göçer - Istanbul Technical University  Built Environment Design and Technologies  "Evaluation of Exterior Cladding Materials in Educational Buildings in Terms of Embodied Energy" Diffunz Kara, Caner Göçer - Istanbul Technical University  "The Impact of Façade Cladding Materials on Carbon Emissions in Urban Renewal Projects: The Case of Istanbul" Ikranur Sena Akkaya, Caner Göçer - Istanbul Technical University	AERONAUTICAL AND ASTRONAUTICAL ENGINEERING  Control Systems: Adaptive, Intelligent, Digital, Optimal, Pneumatic-Hydraulic  "Multi-Agent Reinforcement Learning with Maneuver Primitives for Automatic Ground Collision Avoidance of Fighter Jets" Fath Erol, Hayri Acar, Emre Koyuncu - Astanbul Technical University  "Quadrotor Actuator Fault Detection and Isolation. A Model-Based Approach" Muhammed Arslan, Gokhan Inalian Istanbul Technical University  Spacecraft Control, Design And Performance  "Design of a Deployable S-Bant Helical Antenna for Cubesats" Rümeysa Ustincan - Istanbul Technical University  "Liquid Propellant Rocket Engine Performance Sensitivity Analysis" Turan Copuroglu, First Oğuz Edis - Istanbul Technical University	CONSTRUCTION MANAGEMENT  Construction Project Management  "Difficulties Faced by Construction Experts in Construction Sector Cases in the Turkish Justice System" Bekir Haktanır, Mural Kunoğlu, Onun Behzat Tokkemir - Istanbul Technical University  "Determining The Factors Causing Rework in Turkish Construction Industry" Eda Nur Erdem, Gulden Gümüşburun Ayalıp - Adana Alparslan Türkeş Science and Technology University  "Inclusion and Gender Equality for Women in the Construction Industry" Elif Kiliç, Fatma Pinar Irlayac Çakmak - Istanbul Technical University  "Procurement Phases in EPC Projects: A Bibliometric Analysis" Hasan Ulku Uygun, Zeynep İşik - Yildiz Technical University	ENERGY SCIENCE AND TECHNOLOGY  Energy Conversion and Storage Technologies  "Sustainable GSM Base Station Energizing Using Portable Radioisotope Thermoelectric Generator (RTG) Design" Erdem Highzt, Iskender Allia Reynancan - Istanbul Technical University  "The Lifespan Comparison of an NMC811 Pouch Cell Based High Voltage Battery with Silicon and Polyurethane Foam Usage" Serhat Soyer - Istanbul Technical University  Energy Conversion and Sustainability  "Multi Criteria Decision Analysis For The Selection Of Alternative Marine Fuels in The Shipping Industry" Emre Uz- Istanbul Technical University  "Energy Efficiency Potential Analysis of SMEs in Türkiye's Fertilizer Sector" Sude Karabag, Ebru Acuner - Istanbul Technical University	MECHANICAL ENGINEERING  System Dynamics and Control  "Nonlinear System Identification of A 2-Dof Gimbal System" Bathhan Kalikan, Ayhan Kural - Islanbul Technical University  "Trajectory Analysis of a Medium-Range Ballistic Missile Threat via Design and Simulation" Doruk Unal, liker Murat Koç, Ukte Aksen - Istanbul Technical University  Machine Design  "Weight and Volume Optimization of Two Stage Wolfrom Planetary Gear Mechanism" Kadir Kanat, Ali Imre Aydeniz, Cevat Erdem Imrak - Istanbul Technical University  "Examining the Impact of Groove Profiles and Dimensional Parameters on Shear Pin Strength" Mehmet Ozan Yitim, Cevat Erdem Imrak, Adem Candas - Istanbul Technical University
	Chair: Prof. Dr. Burcu Yıldız	Chair: Dr. Ebru Şevkin	Chair: Assoc. Prof. Dr. Feride Şener Yılmaz	Chair: Asst. Prof. Dr. Ali Tatar	Chair: Assoc. Prof. Dr. Onur Behzat Tokdemir	Chair: Asst. Prof. Dr. Sevan Karabetoğlu, Prof. Dr. Hakan Ali Çırpan	Chair: Prof. Dr. Erdinç Altuğ
11:00 - 12:00	MUSICOLOGY AND MUSIC THEORY  Ethnomusicology  "Evaluating Sounds on the Water from an Ecomusicological Perspective: The Case of Haliç"  Semin Tunali - Istanbul Technical University	ARCHITECTURE  Architectural History  "The Historical Layers Of Solimpasa In Constaninople Hinterland Context" Nil Ceren Karagüle, Bilge Ar - Istanbul Technical University  "Semi-Open Spaces As A Result of Climate And Culture in Mediterranean Architecture" Furkan Sağdıç - Istanbul Technical University  Building Materials and Technologies  "Developing One-part Geopolymer Binders by Using Ground Granulated Blast-furnace Slag and Ceramic Waste as Precursors" liar Berfin libeyi, Ünal Anil Doğan - Istanbul Technical University	ARCHITECTURE  Environmental Control and Building Technology  "MurbanRoCrete: A Sustainable Approach to Concrete Waste Recycling in Istanbul" Başak Akarsu Akdemir, Fatma Sultan Bozkurt, Gizem Aluqlu Armutuc. Istanbul Technical University  "Mutti-Stage Space-Adaptive Shelter: An Alternative for Post-Disaster Shelters" Fukran Berke Çilesizoğlu, Ögüz Cem Çelik - Istanbul Technical University  "Integration of Artificial Intelligence into Materials Education in Architecture: Opportunities, Challenges and Future Perspectives" Peyam Başer, Seden Acun Özgürler, Mime Toppubaşı - Istanbul Technical University  "Reduction of Cooling Loads in Office Buildings in Hot Climates Using Radiant Cooling" Yasemin Kiliçoğlu, Gülten Manioğlu - Istanbul Technical University	AERONAUTICAL AND ASTRONAUTICAL ENGINEERING  Mechanical Vibrations And Structural Dynamics "Aeroelastic Optimization With Genetic Algorithm" Almet Göver, Seher Eken - Istanbul Technical University  "Feed-Forward Neural Network-Based Prediction of Flutter Speed of 3 DOF 2D Wing Model" Osman Dağlı, Melin Orhan Kaya- Istanbul Technical University  "Conceptual Modeling of a Multi-Axial Nonlinear Dynamic Vibration Absorber for Helicopters" Ozkan Karayiğit, Ali Tatar, Vedat Ziya Doğan, Halt Süleyamar Türkmen - Istanbul Technical University  "Nonlinear Modeling and Sensitivity Analysis of Oleo-Pneumatic Strut Landing Gear Systems for Aircraft Landing Performance" Sadık Utku Gulek, Kaan Yıldız - Istanbul Technical University	CONSTRUCTION MANAGEMENT  Construction Project Management  "The Role of Cloud-Based Construction Management Software in Enhancing Project Efficiency" Hazal Tokdemir, Deniz Artan - Istanbul Technical University  IT in Construction  "Assessing the Level of Digitalization of Construction Permit Processes in Türkiye" Gamze Nur İşeri Çetin, Esin Ergen Pehlevan - Istanbul Technical University  Sustainability in Construction  "Industrialisation of Natural Building Materials for Sustainability in the Built Environment" Merve Guven, Deniz Artan - Istanbul Technical University  "Circular Economy Performance Assessment in Construction: A Critical Review Of Firm-Level Models" Mohammed Alhaliaq, Deniz Artan - Istanbul Technical University	ENERGY SCIENCE AND TECHNOLOGY  Renewable Energy  "Feasibility Assessment of Hydrogen Fuel Cell Integration in The Dornier 228 Aircraft with the Structural and Operational Considerations"  Caner Ilhan, Mehmet Suha Yazot - Istanbul Technical University  Sustainable Energy  "The Effect of Seawater on The Electrodecomposition of Hydrogen Sulfide to Hydrogen And Polysulfides" Faezah Nazari, Alper Sanoglan, Mehmet Suha Yazot - Istanbul Technical University  Computational Fluid Dynamics  "Numerical Investigation of Interfacial Contact Resistance in PEM Fuel Cells with Coated Metal Bipolar Plates"  Özgün Önen, Mehmet Suha Yazot, Dilek Kumlutas, Ulku Alp Yücekaya - Istanbul Technical University  COMMUNICATION SYSTEMS  Electrical Vehicles  "Design and Inter-Element Spacing Optimization of GNSS Array"  Muhammed Yusuf Şahin, Mesut Kartal - Istanbul Technical University	Machine Dynamics, Vibration, and Acoustic  "Comparison of Time and Frequency Domain Approaches for Fatigue Life Estimation Using the Finite Element Method" Ahmet Fath Turhan, Osman Taha Şen - Istanbul Technical University  "Semi-Analytical Investigation of Non-Linear Tuned Mass Dampers Using the Multi-Term Harmonic Balance Method" Okan Çengel, Osman Taha Şen - Istanbul Technical University  "Analytical Investigation of Modal Curvatures of Damaged Beams" Ozan Urel, Ugurcan Erogiu - Istanbul Technical University  "Investigating the Use of Crash Dummies as Human Body Models for Whole-Body Vibration Evaluation" Safa Eren Pepeç, Özgen Akalın - Istanbul Technical University
12:00 - 13:00					·		
				BREAK			
				BREAK SESSION - IV			
TIME	MAIN HALL	HALL - I	HALL - II		HALL - IV	HALL - V	HALL - VI
	MAIN HALL  Chair: Assoc. Prof. Dr. Gökhan Deneç	HALL - I Chair: Assoc. Prof. Dr. Bihter Almaç	HALL - II  Chair: Prof. Dr. Hatice Ayataç	SESSION - IV	HALL - IV  Chair: Asst. Prof. Dr. Ömer Tuğrul Turan	HALL - V  Chair: Assoc. Prof. Dr. Onur Ferhanoğlu	HALL - VI Chair: Prof. Dr. Ata Muğan
				SESSION - IV  HALL - III	Chair: Asst. Prof. Dr. Ömer Tuğrul Turan  STRUCTURAL ENGINEERING  Steel Structures  "Seismic Performance of Gravity Frames with Flush End-Plate Beam-to-Column Connections" Alper Demir, Coneyl Vatansever - Istanbul Technical University  "Effect of initial imperfections in short link beams on frame behavior" Bünyamin Mutlu, Cüneyl Vatansever - Istanbul Technical University  "Blast-Resistant Steel Modular Structures Design with the Comparison of Dynamic Analysis Methods: SDOF and MDOF Systems" Nur Doger, Bartas Ozden Caglayan - Istanbul Technical University  Structural Damages  "Vibration Fatigue-Based Optimization of Open Hole Design in Stiffened Panels"		
TIME	Chair: Assoc. Prof. Dr. Gökhan Deneç  MUSIC  Sound Engineering and Design "Transformation of Digital Audio from Metaverse to Web3" Günsel Işik Gruson, Taylan Ozdemir - Istanbul Technical University  "Methodology on Participatory Media Analysis: Insights from Audio Modding Scene on Nexus Mods" Başar Under, Taylan Ozdemir - Istanbul Technical University  "Spatial Auditory Masking in 3D Audio: Challenges, Experimentation and Implications for Immersive Sound" Erne Tenker - Istanbul Technical University  Music Business and Management "Music Memes and the Relationship Between Music Marketing and Humor in Turkey: The Past, Present, and Future"	Chair: Assoc. Prof. Dr. Bihter Almaç  ARCHITECTURE  Architecture Design Theory  "Soft Matters: (Re)Drawing Architecture Through Feminist Material Practices" Beyza Nergis Ozbek, Sidika Asilhan Spenel -Istanbul Technical University  "Fluid Bodies of Space: Rethinking Architectural Relationality Through the Medusa Head" Esra Yüksek, Sidika Asilhan Spenel - Istanbul Technical University  "Urban Destruction in Malatya's Green Belt Project: A Struggle For Public Space Or Capitalist Gain?" Furkan Evliyaoğlu, Nurbin Paker Kahvecioğlu - Istanbul Technical University  "Archival Encounters: Rewriting Istanbul Women's Works Library and Its Memory Through Bodily Practices"	Chair: Prof. Dr. Hatice Ayataç  URBAN AND REGIONAL PLANNING  Transportation Planning and Urban Infrastructure  "Towards Walkable and Green University Campuses: Observational Assessment of ITU Maslak Campus for Advancing the Sustainable Development Goals"  Amira Moursy, Hatice Ayataç - Istanbul Technical University  "Determination of Saturation Flow Rate Right-Turn Adjustment Factor for Large Radii in Istanbul"  Ozan Emekter, Kemal Seipuk Ogüt - Istanbul Technical University  Sustainability, Ecology, and Energy in Planning  "Rethinking Heritage-Tourism Relations: Critical Perspectives and Sustainable Futures for Cultural Sites"	Chair: Prof. Dr. Mehmet Şahin  Chair: Prof. Dr. Mehmet Şahin  AERONAUTICAL AND ASTRONAUTICAL ENGINEERING  Theoretical, Computational And Experimental Aerodynamics And Fluid Dynamics  "Fully-Coupled k-ω-SST Turbulence Model Implementation for Nonlinear Newton Method in Unstructured Vertex-Based HEMLAB Algorithm"  Atakan Okan, Mehmet Şahin - Istanbul Technical University  "Ground Wind Loads on Launch Vehicles"  Ece Saykan, Frant Oguz Edis - Istanbul Technical University  "A Deep Learning Based Modelling of Axial Turbomachinery"  Mehmet Fatih Reyhan, Yavuz Selim Mehel, Baha Zafer - Istanbul Technical University  "Experimental Study on Vortex Gust Encountered by a Flat Plata at 45' Wing Sweep"	Chair: Asst. Prof. Dr. Ömer Tuğrul Turan  STRUCTURAL ENGINEERING  Steel Structures  "Seismic Performance of Gravity Frames with Flush End-Plate Beam-to-Column Connections" Alper Demir, Cüneyt Vatansever - Istanbul Technical University  "Effect of initial imporfections in short link beams on frame behavior" Bünyamin Mutlu, Cüneyt Vatansever - Istanbul Technical University  "Blast-Resistant Steel Modular Structures Design with the Comparison of Dynamic Analysis Methods: SDOF and MDOF Systems" Nur Doger, Barlas Ozden Cağlayan - Istanbul Technical University  Structural Damages	Chair: Assoc. Prof. Dr. Onur Ferhanoğlu  ELECTRONICS AND COMMUNICATION ENGINEERING  Bio-Medical, Bio-Inspired Circuits/Systems  "Customizable Fluidic and Anisotropic Vocal Fold Phantom for Biomechanical Analysis" Alaim Sarraizadeh, Onur Ferhanoğlu, Ahmet C. Etner - Istanbul Technical University  "Development of Multi-Capsule Endoscopy via Spring-Assisted Distance Control" Erfan Parsael, Furkan Peker, All Fuat Ergenç, Onur Ferhanoğlu - Istanbul Technical University  "Effect of Wavelength, Intensity, and Eye Color on Pupil Detection in Infrared-Based Eye Tracking Systems" Murat Teksin, Onur Ferhanoğlu - Istanbul Technical University  "Image Reconstruction and Restoration with Diffusion Networks"	Chair: Prof. Dr. Ata Muğan  MECHANICAL ENGINEERING  Computational Solid Mechanics  "Hybrid Optimization Method for I-Section Beams: A Comparative Study with Detailed FEM" Almer Aktas, Hacı Abdullah Tagdemir - I Stanbul Technical University  "Structural Optimization of LPDC Aluminum Wishbone for Sheet Metal Design in Rear Suspension System for Electric C-SUV Vehicles" Aparslan Erdirençelebi - I Stanbul Technical University  "A Novel Approach for Robust Identification and Characterization of Mechanical Shock Loads for Structural Durability Assessment" Doğukan Elibol, Mesut Kırca - Istanbul Technical University  "Post-Buckling Behavior of Metallic Panels"
TIME	Chair: Assoc. Prof. Dr. Gökhan Deneç  MUSIC  Sound Engineering and Design  "Transformation of Digital Audio from Metaverse to Web3"  Günsel Işik Gruson, Taylan Ozdemir - Istanbul Technical University  "Methodology on Participatory Media Analysis: Insights from Audio Modding Scene on Nexus Mods"  Başar Ünder, Taylan Özdemir - Istanbul Technical University  "Spatial Auditory Masking in 3D Audio: Challenges, Experimentation and Implications for Immersive Sound"  Emire Terriker - Istanbul Technical University  Music Business and Management  "Music Memes and the Relationship Between Music Marketing and Humor in Turkey: The Past, Present, and Future"  Alp Timuçin Bulut - Istanbul Technical University	Chair: Assoc. Prof. Dr. Bihter Almaç  ARCHITECTURE  Architecture Design Theory  "Soft Matters: (Re)Drawing Architecture Through Feminist Material Practices" Beyza Nergis Ozbek, Sidkia Asilhan Şenel -Istanbul Technical University  "Fluid Bodies of Space: Rethinking Architectural Relationality Through the Medusa Head" Esra Yüksek, Sidkia Asilhan Şenel - Istanbul Technical University  "Urban Destruction in Malatya's Green Belt Project: A Struggle For Public Space Or Capitalist Gain?" Furkan Evilyaoğlu, Nurbin Paker Kahvecioğlu - Istanbul Technical University  "Archival Encounters: Rewriting Istanbul Women's Works Library and Its Memory Through Bodily Practices" Seray Rusşuklu, Sidika Asilhan Şenel - Istanbul Technical University	Chair: Prof. Dr. Hatice Ayataç  URBAN AND REGIONAL PLANNING  Transportation Planning and Urban Infrastructure  "Towards Walkable and Green University Campuses: Observational Assessment of ITU Maslak Campus for Advancing the Sustainable Development Goals"  Amira Moursy, Hatice Ayataç - Istanbul Technical University  "Determination of Saturation Flow Rate Right-Turn Adjustment Factor for Large Radii in Istanbul"  Ozan Ernekter, Kemal Seiçuk Ögüt - Istanbul Technical University  Sustainability, Ecology, and Energy in Planning  "Rethinking Heritage-Tourism Relations: Critical Perspectives and Sustainable Futures for Cultural Sites"  Büşra Yalçın, Turgay Kerem Koramaz - Istanbul Technical University	Chair: Prof. Dr. Mehmet Şahin  AERONAUTICAL AND ASTRONAUTICAL ENGINEERING  Theoretical, Computational And Experimental Aerodynamics And Fluid Dynamics  "Fully-Coupled k-ω-SST Turbulence Model Implementation for Nonlinear Newton Method in Unstructured Vertex-Based HEMLAB Algorithm" Atakan Okan, Mehmet Şahin - Istanbul Technical University  "Ground Wind Loads on Launch Vehicles" Ece Saykan, Firat Oğuz Edis -Istanbul Technical University  "A Deep Learning Based Modelling of Axial Turbomachinery" Mehmet Ethi Reyhan, Yavuz Selim Mehel, Baisa Zafer - Istanbul Technical University  "Experimental Study on Vortex Gust Encountered by a Flat Plate at 45 Wing Sweep" Ozan Ibrahimagaoglu, Oksan Cetiner - Istanbul Technical University	Chair: Asst. Prof. Dr. Ömer Tuğrul Turan  STRUCTURAL ENGINEERING  Steel Structures  "Seismic Performance of Gravity Frames with Flush End-Plate Beam-to-Column Connections" Alper Demir, Cüneyt Vatansever - Istanbul Technical University  "Effect of initial imperfections in short link beams on frame behavior" Bünyamin Mutlu, Cüneyt Vatansever - Istanbul Technical University  "Blast-Resistant Steel Modular Structures Design with the Comparison of Dynamic Analysis Methods: SDOF and MDOF Systems" Nur Doger, Bartas Ozden Cağlayan - Istanbul Technical University  Structural Damages  "Vibration Fatigue-Based Optimization of Open Hole Design in Stiffened Panels" Görkem Aşçı - Istanbul Technical University	Chair: Assoc. Prof. Dr. Onur Ferhanoğlu  ELECTRONICS AND COMMUNICATION ENGINEERING  Bio-Medical, Bio-Inspired Circuits/Systems  "Customizable Fluidic and Anisotropic Vocal Fold Phantom for Biomechanical Analysis" Afarin Sarrafzadeh, Onur Ferhanoğlu, Ahmet C. Erten - Istanbul Technical University  "Development of Multi-Capsule Endoscopy via Spring-Assisted Distance Control" Erfan Parsaei, Furkan Peker, Ali Fuat Ergenç, Onur Ferhanoğlu - Istanbul Technical University  "Effect of Wavelength, Intensity, and Eye Color on Pupil Detection in Infrared-Based Eye Tracking Systems" Murat Teksin, Onur Ferhanoğlu - Istanbul Technical University  "Image Reconstruction and Restoration with Diffusion Networks" Onur Parapan, Ender Mete Eksjoğlu - Istanbul Technical University	Chair: Prof. Dr. Ata Muğan  MECHANICAL ENGINEERING  Computational Solid Mechanics  "Hybrid Optimization Method for I-Section Beams: A Comparative Study with Detailed FEM" Ahmet Aktas, Hacı Abdullah Tagdemir - Istanbul Technical University  "Structural Optimization of LPDC Aluminum Wishbone for Sheet Metal Design in Rear Suspension System for Electric C-SUV Vehicles" Alparslan Erdirençelebi - Istanbul Technical University  "A Novel Approach for Robust Identification and Characterization of Mechanical Shock Loads for Structural Durability Assessment" Doğukan Elbol, Mesut Kırca - Istanbul Technical University  "Post-Buckling Behavior of Metallic Panels" Doğukan Elbol, Mesut Kırca - Istanbul Technical University
TIME 13:00 - 14:00	Chair: Assoc. Prof. Dr. Gökhan Deneç  MUSIC  Sound Engineering and Design  "Transformation of Digital Audio from Metaverse to Web3" Günsel İşik Gruson, Taylan Ozdemir - Istanbul Technical University  "Methodology on Participatory Media Analysis: Insights from Audio Modding Scene on Nexus Mods" Başar Ünder, Taylan Özdemir - İstanbul Technical University  "Spatial Auditory Masking in 3D Audio: Challenges, Experimentation and Implications for Immersive Sound" Emre Tenker - Istanbul Technical University  Music Business and Management  "Music Memes and the Relationship Between Music Marketing and Humor in Turkey: The Past, Present, and Future" Alp Timugh Bulut - Istanbul Technical University  Chair: Dr. Jane Harrison  MUSIC  Music Theory  "Effects of Performance Space on Free Improvisation Practices" Asilnan Adin - Istanbul Technical University  "Cyclic Unity and Romantic Expression in Robert Schumann's (Fantasiestücke), Op. 12: A Schenkerian Perspective" Doğucan Temizel - Istanbul Technical University  "Sonified Memory of the 2020 Aegean Sea Earthquake" Doruk Başoğlu - Istanbul Technical University  Music Performance "Challenging Conventions: Clara Wieck's Op. 20 and the Gendered Landscape of 19th-Century Music"	Chair: Assoc. Prof. Dr. Bihter Almaç  ARCHITECTURE  Architecture Design Theory  "Soft Matters: (Re)Drawing Architecture Through Feminist Material Practices" Beyza Nergis Ozbek, Sidika Ashhan Şenel - Istanbul Technical University  "Fluid Bodies of Space: Rethinking Architectural Relationality Through the Modusa Head" Esra Vulksek, Sidika Ashhan Şenel - Istanbul Technical University  "Urban Destruction in Malaya's Green Belt Project: A Struggle For Public Space Or Capitalist Gain?" Furkan Evilyaoğlu, Nurbin Paker Kahvecioğlu - Istanbul Technical University  "Archival Encounters: Rewriting Istanbul Women's Works Library and its Memory Through Bodily Practices" Seray Rusçuklu, Sidika Ashhan Şenel - Istanbul Technical University  Chair: Prof. Dr. Ozan Önder Özener  ARCHITECTURE  Architecture Design Theory  "The Performance of the Archive or Archive as Evenit: Exhibiting Architecture" Derya Yidic, Funda Uz - Istanbul Technical University  "Reading Architectural Memory through Cinematographic Image: Atatürk Cultural Center" Ismal Gökkaya, Funda Uz - Istanbul Technical University  "Conditions of Criticality in Discussions on Architectural Representation" Burge Karadağ, Nurbin Paker Kahvecioğlu - Istanbul Technical University  "The Impact of Governmental Power On Urban Morphology: A Case Study of London"	Chair: Prof. Dr. Hatice Ayataç  URBAN AND REGIONAL PLANNING  Transportation Planning and Urban Infrastructure  "Towards Walkable and Green University Campuses: Observational Assessment of ITU Maslak Campus for Advancing the Sustainable Development Goals" Amira Moursy, Hatice Ayataç - Istanbul Technical University  "Determination of Saturation Flow Rate Right-Turn Adjustment Factor for Large Radii in Istanbul" Ozan Emekter, Kemal Selçuk Ögüt - Istanbul Technical University  Sustainability, Ecology, and Energy in Planning  "Rethinking Heritage-Tourism Relations: Critical Perspectives and Sustainable Futures for Cultural Sites" Büşra Yalçın, Turgay Kerem Koramaz - Istanbul Technical University  Chair: Assoc. Prof. Dr. Başak Demireş  URBAN AND REGIONAL PLANNING  Smart Cities, Digitalization, and Data Science  "City Information Modeling: Identifying Knowledge Gaps and Research Priorities" Abdairahman T. Y. Alash, Ozhan Ertekin - Istanbul Technical University  "Deprivation Analysis in Turkey And It's Provinces: a Study Based On English Index Of Deprivation And Turkish Statistical Institute" Abdairahman T. Y. Alash, Ozhan Ertekin - Istanbul Technical University  Climate Change and Planning "Climate Change and Planning Historic Peninsula"	Chair: Prof. Dr. Mehmet Şahin  AERONAUTICAL AND ASTRONAUTICAL ENGINEERING  Theoretical, Computational And Experimental Aerodynamics And Fluid Dynamics "Fully-Coupled ku-SST Turbulence Model Implementation for Nonlinear Newton Method in Unstructured Vertex-Based HEMLAB Algorithm" Alakan Okan, Mehmet Şahin - Istanbul Technical University  "Ground Wind Loads on Launch Vehicles" Ece Salyam, Farat Oguz Edis - Istanbul Technical University  "A Deep Learning Based Modelling of Axial Turbonachinery" Mehmet Fath Reyhan, Yavuz Selim Mehel, Baha Zafer - Istanbul Technical University  "Experimental Study on Vortex Gust Encountered by a Flat Plata at 45 Wing Sweep" Czan Ibrahmagaoglu, Oksan Cetiere - Istanbul Technical University  Chair: ASST. Prof. Dr. Saliha Banu Yılmaz  AERONAUTICAL AND ASTRONAUTICAL ENGINEERING  Theoretical, Computational And Experimental Aerodynamics And Fluid Dynamics "Digital Twin Approaches in System-Level Modeling for Aerospace and Propulsion Applications of Rocket Engines: A Review" Yasr Şimes, Ibrahm Zoxi - Istanbul Technical University  Theoretical, Strathm Coxi - Istanbul Technical University  "Design and Analysis of Isogrid-Stiffened Cylindrical Structures for Launch Vehicles: Mathematical Modelling and Knockdown Factor Correlation with Finite Element Validation: Hakan Alkan, Alkan Althrahymist Istanbul Technical University  "Investigation of the Interaction of Carbon Fiber Cylindrical Rocket Bodies with Radial Bolt Joints" Kublays Sazan - Istanbul Technical University  "Numerical Modelling of Composite Laminates Under Out-of-Plane Impact"	Chair: Asst. Prof. Dr. Ömer Tuğrul Turan  STRUCTURAL ENGINEERING  Steel Structures  "Seismic Performance of Gravity Frames with Flush End-Plate Beam-to-Column Connections" Alper Demir, Coneyt Vatansever - Istanbul Technical University  "Effect of initial imperfections in short link beams on frame behavior" Büryamin Multu, Cüneyt Vatansever - Istanbul Technical University  "Blast-Resistant Steel Modular Structures Design with the Comparison of Dynamic Analysis Methods: SDOF and MDOF Systems" Nur Doger, Barlas Ozden Caglayan - Istanbul Technical University  Structural Damages  "Vibration Fatigue-Based Optimization of Open Hole Design in Stiffened Panels" Görkem Asçı - Istanbul Technical University  Chair: Assoc. Prof. Dr. Murat Yılmaz  STRUCTURAL ENGINEERING  Finite Element Methods  "Finite Element Analysis of Symmetrical Laminated Sandwich Plates with Stress Singularities Using Gradient Elasticity Theory" Aziz Mert Yavız, Üiki Hülya Çalık Karaköse - Istanbul Technical University  "Effect of Strut Shape and Relative Density on the Homogenized Matorial Properties and Anisotropy of Octet-Truss Unit Cell" Soheil Gholibeygi, Hale Ergün, Bahar Ayhan - Istanbul Technical University  "Artificial Intelligence Based Surrogate Models for Stiffened Plate Buckling Analysis" Hasan Kıyık, Metin Orhan Kaya - Istanbul Technical University  Bridges  "Investigation of the Effects of Vibration Dampers Positioned on Hanger Cables of an Existing Suspension Bridge"	Chair: Assoc. Prof. Dr. Onur Ferhanoğlu  ELECTRONICS AND COMMUNICATION ENGINEERING  Bio-Medical, Bio-Inspired Circuits/Systems  "Customizable Fluidic and Anisotropic Vocal Fold Phantom for Biomechanical Analysis" Afarin Sarrafzadeh, Onur Ferhanoğlu, Ahmet C. Erten - Istanbul Technical University  "Development of Multi-Capsule Endoscopy via Spring-Assisted Distance Control" Erfan Parsael, Furkan Peker, All Fuat Engenç, Onur Ferhanoğlu - Istanbul Technical University  "Effect of Wavelength, Intensity, and Eye Color on Pupil Detection in Infrared-Based Eye Tracking Systems" Murat Teksin, Onur Ferhanoğlu - Istanbul Technical University  "Image Reconstruction and Restoration with Diffusion Networks" Onur Parapan, Ender Mete Ekşioğlu - Istanbul Technical University  Chair: Prof. Dr. Ece Olcay Güneş  ELECTRONICS AND COMMUNICATION ENGINEERING  Bio-Medical, Bio-Inspired Circuits/Systems  "Thermoplastic Microfluidic Platform for 3D cell Culturing and Imaging" Ozlem Koçoğlu, Umut C. Coşkun, Berna Morova, Alper Kiraz, Kemai Baysal, Ahmet C. Etten - Istanbul Technical University  "A Deep Learning Network for Automatic Grade Classification of Renal Cell Carcinoma" Süeda Kaya, Murvet Krra - Istanbul Technical University  "Multi-Class Classification for Skin Lesions Using Deep Learning Techniques" Ommuhan Kopal, Murvet Krra - Istanbul Technical University  Embeddedd Systems  "Design of a Clutchless Automated Gear Control System for Electric Tractors"	Chair: Prof. Dr. Ata Muğan  MECHANICAL ENGINEERING  Computational Solid Mechanics  "Hybrid Optimization Method for I-Section Beams: A Comparative Study with Detailed FEM" Ahmet Aktas, Hacı Abdullah Taşdemir - Istanbul Technical University  "Structural Optimization of LPDC Aluminum Wishbone for Sheet Metal Design in Rear Suspension System for Electric C-SUV Vehicles" Alparasian Erdirençalebi - Istanbul Technical University  "A Novel Approach for Robust Identification and Characterization of Mechanical Shock Loads for Structural Durability Assessment" Doğukan Elbol, Mesut Kırca - Istanbul Technical University  "Post-Buckling Behavior of Metallic Panels" Doğukan Elbol, Mesut Kırca - Istanbul Technical University  Chair: Prof. Dr. Ata Muğan  MECHANICAL ENGINEERING  Computational Solid Mechanics  "Parametric Investigation of Mechanical Properties for Laser Powder Bed Fusion Processed Inco718 Auxetic Metamaterials" Kublisy Özgonul, Hacı Abdullah Taşdemir - Istanbul Technical University  "Modeling Hydrogen-Induced Failure of AISI 4135 Steel by Finite Element Analysis" Dorukana Güngör, Emin Sünbülciğlu - Istanbul Technical University  "A Comparative Modal Analysis of Homogenized and Full-Scale FE Models of Sandwich Composite Structures with Re-entrant Auxetic Core" Özgür Değirmenci, Kadir Günaydin, Hall Süleyman Türkmen, Şafak Yılmaz - Istanbul Technical University  Additive Manufacturing "Evaluation of Mechanical Properties of SIM AliSi10Mg Alloy Produced with Different Production Parameters"
TIME  13:00 - 14:00	Chair: Assoc. Prof. Dr. Gökhan Deneç  MUSIC  Sound Engineering and Design  "Transformation of Digital Audio from Metaverse to Web3" Günsel İşik Günsen, Taylan Ozdemir - Istanbul Technical University  "Methodology on Participatory Media Analysis: Insights from Audio Modding Scene on Nexus Mods" Başar Ünder, Taylan Özdemir - Istanbul Technical University  "Spatial Auditory Masking in 3D Audio: Challenges, Experimentation and Implications for Immersive Sound" Emer Tenker - Istanbul Technical University  Music Business and Management  "Music Memes and the Relationship Between Music Marketing and Humor in Turkey: The Past, Present, and Future" Alp Timurin Bulut - Istanbul Technical University  Chair: Dr. Jane Harrison  MUSIC  Music Theory  "Effects of Performance Space on Free Improvisation Practices" Ashhan Adin - Istanbul Technical University  "Cyclic Unity and Romantic Expression in Robert Schumann's (Fantasiestücke), Op. 12: A Schenkerian Perspective" Doğucan Temizel - Istanbul Technical University  Ethnomusicology  "Sonlified Memory of the 2020 Aegean Sea Earthquake" Doruk Başoğlu - Istanbul Technical University  Music Performance  "Challenging Conventions: Clara Wisck's Op. 20 and the Gendered Landscape of 19th-Century Music" Irem Hayrioğlu - Istanbul Technical University	Chair: Assoc. Prof. Dr. Bihter Almaç  ARCHITECTURE  Architecture Design Theory  "Soft Matters: (Re)Drawing Architectura Through Feminist Material Practices" Beyaz Nerge Ozbek, Salika Asilhan Şenel - Istanbul Technical University  "Fluid Bodies of Space. Rethinking Architectural Relationality Through the Medusa Head" Esra Yüksek, Bidika Asilhan Şenel - Istanbul Technical University  "Urban Destruction in Malatya's Green Belt Project: A Struggle For Public Space Or Capitalist Gain?" Furkan Evilyaoğlu, Narbin Paker Kahvedoğlu - Istanbul Technical University  "Archival Encounters: Rewriting Istanbul Women's Works Library and its Memory Through Bodily Practices" Seray Rusçuklu, Sıdıka Asilhan Şenel - Istanbul Technical University  Chair: Prof. Dr. Ozan Önder Özener  ARCHITECTURE  Architecture Design Theory  "The Performance of the Archive or Archive as Event: Eshibiting Architecture" Derya Yıdız. 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Prof. Dr. Saliha Banu Yılmaz  AERONAUTICAL AND ASTRONAUTICAL ENGINEERING  Theoretical, Computational And Experimental Aerodynamics And Fluid Dynamics  "Digital Twin Approaches in System-Lavel Modeling for Aerospace and Propulsion Applications of Rocket Engines: A Review"  Yeas Fyres, Perime Coder - Instanbul Technical University  Theoretical, Computational And Experimental Structures for Clumdravily  "Theoretical, Computational And Experimental Structures And Fluid Dynamics  "Digital Twin Approaches in System-Lavel Modeling for Aerospace and Propulsion Applications of Rocket Engines: A Review"  Yeas Fyres, Perime Coder - Instanbul Technical University  "Theoretical, Computational And Experimental Structural Analysis And Design  "Design and Analysis of Isogrid-Stiffened Cylindrical Structures for Launch Vehicles: Mathematical Modeling and Knockdown Factor Correlation with Finite Element Validation"  Hakan Akan, A	Chair: Asst. 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TIME  13:00 - 14:00	Chair: Assoc. Prof. Dr. Gökhan Deneç  MUSIC  Sound Engineering and Design "Transformation of Digital Audio from Metaverse to Web3" Girsel Bylk Chason, Taylan Ozdernir - Istanbul Technical University  "Methodology on Participatory Media Analysis: Insights from Audio Modding Scene on Nexus Mods" Bayar Under, Taylan Ozdernir - Istanbul Technical University  "Spatial Auditory Masking in 30 Audio: Challenges. 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Prof. Dr. Aslihan Şenel  ARCHITECTURE  Architecture Design Theory  "The Potentialitie, Displacements, and Spatial Projections of the Concept" Unitari, Agrica: Beying Chrimestry  "Typological Transformations and Urban Islandis Gizer - Midtle Sate Technical University  "Typological Transformations and Urban Islandis Gizer - Midtle Sate Technical University  "Exploring Experiential Learning Design Practices Grounded in Social Responsibility in Marcin'  Espioring Experiential Learning Design Practices Counded in Social Responsibilit	Chair: Prof. Dr. Hatice Ayataç  URBAN AND REGIONAL PLANNING  Transportation Planning and Urban Infrastructure  "Towards Walkable and Green University Campuses. Observational Assessment of ITU Maslak Campus Anna Maray, Hatice Ayataç, Istanbul Technical University  "Determination of Saturation Flow Rate Right-Turn Adjustment Factor for Large Radii in Istanbul" Cozan Emaklar, Menna Sayak, Ogla - Istanbul Technical University  Sustainability, Ecology, and Energy in Planning  "Rethinking Heritage-Tourism Relations: Circilar Perspectives and Sustainable Futures for Cultural Sites"  Suya Yagar, Tugay Karein Kodanaz - Istanbul Technical University  Chair: Assoc. Prof. Dr. Başak Demireş  URBAN AND REGIONAL PLANNING  Smart Cities, Digitalization, and Data Science  "Oby Information Modeling: Identifying Knowledge Gaps and Research Priorities" Abdatarhaman T. Y. Alasti. Oran Eretism - Haubul Technical University  "Deprivation Analysis in Turkey And 1% Provinces: a Study Based On English Index Of Deprivation And Turkish Statistical Institute" Abdatarhaman T. Y. Alasti. Oran Eretism - Haubul Technical University  Climate Change Adaptation in Urban Heritage Sites: The Case of Istanbul Historic Peninsula"  Tugay Korent Koranas, Toga Tuti- Statistic Produced University  Chair: Prof. Dr. Hayriye Eşbah Tunçay  LANDSCAPE ARCHITECTURE  Innovative Technologies for Landscape Design and Management  "The Use of Computer Vision in Observing Human Behavior in Landscape Architecture"  Care Architecture of Computer Vision in Observing Human Behavior in Landscape Architecture  Landscape Design  "Understanding Play: How Playground Equipment Shapes Cognitive, Social and Physical Behavior in Children Aged 3-12: A Case Study in Maltepe Orhangazi City Park"  Landscape Design  "Understanding Flay: How Playground Equipment Shapes Cognitive, Social and Physical Behavior in Children Aged 3-12: A Case Study in Maltepe Orhangazi City Park"  Landscape Design  "Understanding Flay: How Playground Equipment Shapes Cognitive, Social and Physical Behavior o	Chair: Prof. Dr. Mehmet Şahin  Chair: Prof. Dr. Mehmet Şahin  AERONAUTICAL AND ASTRONAUTICAL ENGINEERING  Theoretical, Computational And Experimental Aerodynamics And Fluid Dynamics  "Fully-Coupled h-u-SST Turbulence Model Implementation for Northware Newton Method in University  And And Chair. And Astronautical Information of Northware Newton Method in University  And Chair: Association of Action Method Service Astronautical University  "Tocoge Learning Based Modelling of Axial Turbomachinary"  Abernat Fall Reprais. Your Seale Method. Base Zelor: Allerdor Facinical University  "Experimental Study on Voters Qual Encourated by a Fall Pale at 43 'Wing Sweep"  Chair: Asst. Prof. Dr. Salisha Banu Yilmaz  AERONAUTICAL AND ASTRONAUTICAL ENGINEERING  Theoretical, Computational And Experimental Aerodynamics And Fluid Dynamics  "Digital Yerin Approaches in System-Level Modeling for Aerospace and Propulsion Applications of Rocket Engines: A Review"  Theoretical, Computational And Experimental Aerodynamics And Fluid Dynamics  "Digital Yerin Approaches in Openius Service and Applications of Rocket Engines: A Review"  Theoretical, Computational And Experimental Structural Analysis And Design  "Design and Analysis of longers. Services" of Laurch Velocies. Methodicing and Knockdown Factor Corelation with Finite Element Hatan Akan, Akan Affarbayas Intended Technical University  "Investigation of the Interaction of Cathor Face Confliction Review (Investity)  "Investigation of the Interaction of Cathor Face Confliction Review (Investity)  "Numerical Modeling of Composite Laminates Under Out-of-Plane Impact"  Validad Stean Ann Intended Technical University  Prover Element Face Capitals, Intended Technical University  *Adaptation of a Generalized Observer Scheme for False Data Bispetion Detection in Load Frequency Control Systems"  Areas New Schement Control Charge for Raiway Applications'  Martin General Local Resonant DOC Charge for Raiway Applications'  Martin General Acad Acad Acad Acad Acad Internation University  *Powe	Chair: Asst. Prof. Dr. Ömer Tuğrul Turan  STRUCTURAL ENGINEERING  Steol Structures  "Seismic Performance of Gravity Frames with Flush End Plate Beam-do-Column Connections" Aper Demir, Corney Vatanesere- Istahadu Technical University  "Effect of initial imperfactions in short link beams on frame behavior" Estimation Multip, Corney Vatanesere Istahadu Technical University  "Blast-Resistant Steel Modular Structures Design with the Companion of Dynamic Analysis Methods: SDOF and MDOF Systems" Not Doger, Bariss Jozen Calgingan - Istahadu Technical University  "Structural Damages  "Vibration Fatigue-Based Optimization of Open Hole Design in Stiffened Panels" (Orkern Apg Istahadu Technical University)  Chair: Assoc, Prof. Dr. Murat Yılmaz  STRUCTURAL ENGINEERING  Finite Element Methods  "Finite Element Analysis of Symmetrical animated Sandwich Plates with Streas Singularities Using Gradient Elasticity Theory" Aze Metri Yanat, Udal Hajiy Gallar Karalinga- Istahadu Technical University  "Effect of Strut Shape and Relative Density on the Homogenized Material Properties and Anisotropy of Octet-Truss Unit Cell" Scheld Choleology, Hale Egrilla Rahar Ayran - Istahadu Technical University  "Artificial Intelligence Based Surrogate Models for Stiffened Plate Buckling Analysis" Hassan Krylik, Malin Orlant Apg Istahadu Technical University  "Artificial Intelligence Based Surrogate Models for Stiffened Plate Buckling Analysis" Hassan Krylik, Malin Orlant Apg Istahadu Technical University  Bridges  "Investigation of the Effects of Wibration Dampers Positioned on Hanger Cables of an Existing Suspension Bridge"  "Anammed Emin Dennir, Kadr Ozalegil - Istahadu Technical University  "Ling Parametric Design Software to Optimize Kipper Book on Hanger Cables of Concrete Shells in an Example Model"  Beffect of Elevated Temperature on the Compressive Behavior of PET FRP Confined Low Strength Concrete Columns"  Microser Hazara, Benefit Grade, Albertan Lay Aralan, Ash Ash Ash Ash Ash Ash Paral Regioneement With Center of Modern Pro	Chair: Assoc. Prof. Dr. Onur Ferhanoğlu  ELECTRONICS AND COMMUNICATION ENGINEERING  Bio-Medical, Bio-Inspired Circuits/Systems  "Customizable Fluidic and Anisotropic Vocal Fold Phantom for Biomechanical Analysis" Adam Standardoth, Onur Ferhanoğlu, Annat C. Etten - Bistehul Technical University  "Povelogment of Muli-Capsule Brodocopy via Spring-Assisted Distance Control" Erfan Parasal, Furlan Peker, Ali Fust Ergenc, Onur Ferhanoğlu - Internat-Based Eyr Tracking Systems*  "Effect of Wavelength, Internation, Orur Ferhanoğlu - Internation Internat-Based Eyr Tracking Systems"  **Warst Teksin, Orur Ferhanoğlu - Internation internation Heaven Systems*  **Warst Teksin, Orur Ferhanoğlu - Internation with Diffusion Networks*  **Orur Farapsa, Ericel Internation and Restandar Technical University  **Chair: Prof. Dr. Ece Olcay Güneş  ELECTRONICS AND COMMUNICATION ENGINEERING  Bio-Medical, Bio-Inspired Circuits/Systems  "Thermoplasto Microfluidic Platform for 3D Cell Cutturing and Imaging"  Ozlem Kopoğlu, Umrd. C. Copkar, Berna Molova, Alpen Roza, Kenna Bayan, Arma (C. Esten - Internation Viversity)  "A Deep Learning Network for Automatic Grade Classification of Renal Cell Carcinoma*  Socia Kaya, Mürret Kircu- Internation University  "Multi-Class Classification for Skin Lasions Using Deep Learning Techniques"  **Umministrical, Mürret Kircu- Internation University  "Design of a Clutchies Automated Gear Control System for Electric Tractors*  Berug Birgot, Ece Olcay Günes, Murret Gürnedgü, Berug Birgot, Istenbul Technical University  **Chair: Prof. Dr. Berna Örs Yalçın  ELECTRONICS AND COMMUNICATION ENGINEERING  Analog/Mixed-Signal/Microwave Circuits  "Design of a Low-power Phase-Frequency Detector in 65 nm CMOS Technology Suitable for 66 Mobile Applications*  Borna Design of Allow-power Phase-Frequency Detector in 65 nm CMOS Technology Suitable for 68 Mobile Applications*  Borna Design of Allow-power Phase-Frequency Detector in 65 nm CMOS Technology Suitable for 98 Mobile Applications*  "Design of a Low-power Phase-Frequency D	MECHANICAL ENGINEERING  Computation Method for I-Section Beams: A Comparative Study with Detailed FEM* Africal Mitting Method for I-Section Beams: A Comparative Study with Detailed FEM* Africal Mitting Method for I-Section Beams: A Comparative Study with Detailed FEM* Africal Mitting Method for I-Section Beams: A Comparative Study with Detailed FEM* Africal Mitting Method of Poster Method Internated University  "Structural Optimization of LPDC Alluminum Wishboom for Sheet Metal Design in Rear Suspension System for Electric C-SUV vehicles" Aparatian Erizençates - Internated University  "A Novel Approach for Robust Identification and Characterization of Mechanical Shock Loads for Structural Durability Assessment* Dogidan Eitod, Mesut Krca - Istanbul Technical University  "Post-Suckling Behavior of Metalic Pannis" Dogidan Eitod, Mesut Krca - Istanbul Technical University  Chair: Prof. Dr. Ata Muğan  MECHANICAL ENGINEERING  Computational Solid Mechanics  "Parametric Investigation of Mechanical Proporties for Laser Powder Bed Fusion Processed Inco*/18 Auxetic Metamaterials" Kubaby Ozgorini, Hear Advalula Tagetime: A Latanbul Technical University  "Modeling Hydrogen-Induced Failure of AlSi 4135 Steel by Finite Element Analysis"  Donathan Gungor, Ermis Stebiologiu - Istanbul Technical University  "A Comparative Modal Analysis of Homogenized and Full-Scale FE Models of Sandwich Composite Structures with Re-entrant Auxetic Core* Ozgitr Degirment, Kad Gungolin, Hall Subsyman Toknen, Salak Yimaz - Istanbul Technical University  Additive Manufacturing  "Evaluation of Mechanical Properties of SLM AlSi 10Mg Alloy Produced with Different Production Parameters*  Hasret Bas, Rajid Ahmed Yaliz - Istanbul Technical University  Chair: Asst. Prof. Dr. Alper Tolga Çalık  MECHANICAL ENGINEERING  Automotive  "Effect of injection timing on performance of port nijection hydrogen engine"  Him Eran Ciktar, Manaromen Colons - Villaz Technical University  "Combustion Model Analysis on Validation Purpose of A Spark Ignition Engine"  Also Del

16:00 - 16

## 4<sup>th</sup> INTERNATIONAL GRADUATE RESEARCH SYMPOSIUM - IGRS'25



				SESSION - V				
TIME	MAIN HALL	HALL - I	HALL - II	HALL - III	HALL - IV	HALL - V	HALL - VI	
	Chair: Prof. Dr. Kamile Perçin Akgül, Dr. Görkem Giray	Chair: Asst. Prof. Dr. Ecem Tezel	Chair: Assoc. Prof. Dr. Merve Tomaş	Chair: Assoc. Prof. Dr. Salih Barış Öztürk	Chair: Assoc. Prof. Dr. Enes Zengin	Chair: Prof. Dr. Volk	kan Sezer Chair: Assoc. Prof. Dr. Alaadin Burak Irez	
	TRADITIONAL DANCES	ARCHITECTURE	FOOD ENGINEERING	ELECTRICAL ENGINEERING	STRUCTURAL ENGINEERING Seismic Performance	MECHATRONICS ENGIN		
	Dance, Traditional Dances in terms of its role in interdisciplinary interaction in performance areas "The Reinterpreting Choreographic Art Through Traditional Dances in Turkey: The Shaman Dance '7EDI' Project" Gülce Su Gümüş - Istanbul Technical University	Project and Construction Management "A Literature Review On Organizational Structures in The Construction Industry" Ece Gamze Sentuna, F. Pinar Carkmak - Istanbul Technical University	Food Bioactive Compounds	Electric Power & Energy Systems "Techno-Economic Integration of Nuclear Energy Towards Achieving Net-Zero Emissions" Serdar Hudayberdyev, Lale Erdem Altigan - Istanbul Technical University	"Seismic Performance Evaluation and Comparison of Different Structural Systems Using Nonlinear Time History Analysis"  Volkan lygen, Konuralp Gitgin - Istanbul Technical University	Robotics "Comparison Of MPC Based Motion Control Algorithm Ayse Kizildemir Kiliç, Hakan Temellaş - <i>Istanb</i>	ms On MuJoCo Hybrid Platform"  with Technical University  ms On MujoCo Hybrid Platform"  Electrification of Heavy Commercial Truck: Vehicle Dynamics Modelling, Energy Efficiency Analysis, and Economic Comparison with Conventional Diesel Engine"  Kadir Ridvan Düzelli, Osman Taha Şen - İstanbul Technical University	
17:00 - 18:00	POLITICAL STUDIES	"Investigating the Role of Data Management for Al Utilization for Decision-Making in Construction: {A Literature Review}" Hansa Eusmanaga, Fatma Pinar Çakmak - Istanbul Technical University	"Production of Phenolic Compounds from Grape Pomace by Enzyme-Assisted Extraction"  Ayse Nilay Yıldırım, Derya Kahveci Karıncaoğlu - Istanbul Technical University  Functional Foods	Power Electronics "A Real-Time Resonance Detection and Mitigation Method for Shunt Active Power Filters"	HYDRAULICS AND WATER RESOURCES ENGINEERING Hydrology	"A Study on the Performance of GNN, PDA, and JPDA in a Nurettin Özçelik, Volkan Sezer- <i>Istanbul Te</i>	a ROS-Based Tracking Framework"  "Investigation and Optimization of the Effect of Different Profile Modifications on Gear Noise and Strength in the Gearbox with Single Stage Spur Gear*  Hakan Yardırmcı, Ali Gökşenli, Ali Imre Aydeniz -Istanbul Technical University	
	Political and Social Thought "State's Construction of "Othering" Mechanisms: Stigmatization and Discrimination Processes" Ela Gollooy - Istanbul Technical University	"A Systematic Review of BIM and the Circular Economy: Key Research Areas and Findings" Merve Cellek, Fatma Pınar Çakmak "Istanbul Technical University	"Composition and Technofunctional Properties of Aquafaba from Local Legume" Nurullah Zekeriya Akar, Meral Kiliç Akıyılmaz - Istanbul Gelisim University	Ramazan Berkan Tut, Veysel Tutku Buyukdegirmenci, Mustak Erhan Yalçın - Istanbul Technical University  Electrical Machines	"Spatio-Temporal Analysis of Long-Term Rainfall Erosivity Trends and Climate Impacts on Erosion Potential"  Ahmet Faruk Ipek, Ercan Kahya - Istanbul Technical University  GEOLOGICAL ENGINEERING	Vehicle Design "Steer-by-Wire System Modeling and Control Use Seyitcan Şahin, Erhan Yumuk - Istanbul 7e	sing Optimal PID Controller"  "Generation of Proper Inflow Conditions with Hydrodynamic Stability Approach: A Case Study For An Axially-Rotating Pipe Flow"	
	Political Philosophy "An Evaluation of Socrates, Plato and Aristotle Regarding Their Conceptualizations of Political Legitimacy"	Sustainable Design "Investigating Circularity in Buildings through Digital Circularity Metric" Burcu Kısmet, Meryem Birgül Çoldacığu - Istanbul Technical University	"Plant Based Proteins In Instant Soups: Comparison of Sensory, Functional and Bioactive Properties"  Ceren Çakır - Istanbul Technical University	"Investigation of the Effect of Space Vector PWM Technique on Zero-Sequence Voltage Formation in Open-End Windings"  Arda Tüfekçi, liker Şahin, Derya Ahmet Kocabaş - Aselsan Inc., Istanbul Technical University  "Determination of Altitude Dependent Insulation Breakdown of Brushed DC Starter Generators"	GEULOGICAL ENGINEERING  Rock Mechanics  "Detachments Induced By Thermal Cycling At Grain Boundaries of Fine Grained Marble"	Autonomous Vehicl "WaveDrive: A Pipeline for Gesture Recognition	tles "Multi-Objective Aerodynamic Shape Optimization of Helicopter Nose"  1 Using Hands Coordinates"  Yigit Can Ozdemir, Sertac Çadırcı - Istanbul Technical University	
	Giray Çavdar- Istanbul Technical University		Chain Duef De Mana Cabin Vanilanbula Anat Duef De Cijdan Vilnas Calala	Aye Nur Köklü Ülusoy - Istanbul Technical University	Dilek Karapinar, Yilmaz Mahmutoğiu, Orhan Apaydin - Istanbul Technical University  Dilek Karapinar, Yilmaz Mahmutoğiu, Orhan Apaydin - Istanbul Technical University	Abdúlkerim Sipahi, Erdinç Altığ - <i>Istanbul T</i>	schrical University	
		Chair: Assoc. Prof. Dr. Orkan Zeynel Güzelci	Chair: Prof. Dr. Neşe Şahin Yeşilçubuk, Asst. Prof. Dr. Çiğdem Yılmaz Çolak					
			FOOD ENGINEERING Sustainable Foods					
		INTERNATIONAL MASTER OF INTERIOR ARCHITECTURAL DESIGN	"Development and Characterization of Biodegradable Films Enriched with Proteins Extracted from Agro-Industrial Pea Waste and By-Products" Nihal Sultan Bayar, Neşe Şahin Yeşilçubuk, Hande Yenipazar, Ayşe Saygün - Istanbul Technical University					
18:00 - 19:00		Interior Architecture "Use of Mycelium-Based Materials as an Interior Design Component: A Digital Fabrication Approach" Müge Ozkan, Orkan Zeynel Güzelci - Istanbul Technical University	Novel Food Processes "Effects of Audible-Range Sound Treatment on the Microbiological Quality of Strawberry During Post-Harvest Storage"  Deniz Çavdar, Gürbüz Güneş - Istanbul Technical University					
		Technology in Interior Design "A Strategy for Dataset Preparation in Al Model Training: The Case of Hotel Interiors"	MOLECULAR BIOLOGY - GENETICS AND BIOTECHNOLOGY					
		Yaren Cengiz, Örkan Zeynel Güzelci, Derya Güleç Özer, Koray Řídiş - <i>Istanbul Technical University</i>	Metagenomics and Protein Engineering "Site-directed mutagenesis on inactive CYP102A178 from hydrothermal hot spring Hisaralan-Balıkesir" Elif Mehveş Özer, Başak Birdal, Kaan Dizer, Hande Mumcu, Nevin Gul Karagüler - Istanbul Technical University					
			"Recombinant Production of Two Novel Ferredoxin-NADP* Reductases from {Pseudomonas mandelii) KGI_MA19" Kaan Dizer, Hande Murncu, Elif Mehveş Özer, Nevin Gül Karagüler - Istanbul Technical University					
				14 MAY 2025, WEDNESDAY				
				ONLINE				
				SESSION - VI				
TIME	MAIN HALL	HALL - I	HALL - II	HALL - III	HALL - IV	HALL - V		
	Chair: Prof. Dr. Bihter Erol	Chair: Asst. Prof. Dr. Abdulkerim Çapar	Chair: Prof. Dr. Bülent Arıkan	Chair: Assoc. Prof. Dr. Adalet Dervişoğlu	Chair: Asst. Prof. Dr. Elif Küçüksayraç	Chair: Assoc. Prof. Dr. De	erya Güleç Özer Chair: Assoc. Prof. Dr. Mehmet Emin Şalgamcıoğlu	
			ECOLOGY AND EVOLUTION	GEOMATICS ENGINEERING				
	GEOMATICS ENGINEERING Cooperation Systems	COMPUTER SCIENCE	Anthropocene	Geographic Information Systems "Spatial Analysis and Optimization of E-Commerce Company's Parcel Collection Operations: The Case of Esenyurt, Istanbul" Falma Reyyan Sarikaya, Adalet Dervişoğlu - Istanbul Technical University	INDUSTRIAL DESIGN	GAME AND INTERACTION TE		
	Geographic Information Systems "Estimating Vessel-Based Carbon Emissions in the Ambarit Port Region Using AIS and GIS Data" Firat Bolat, Hande Demirel - Istanbul Technical University	Data Science "A Data-Driven Approach to Process Duration Estimation: End-to-End Machine Learning with Process Mining" Burak Batbay, Barşmert Günal, Hakan Yıldırır, İsmail Çağadışı Bigin, Serkan Günal, Emre Çimen - Eczacıbaşı Informatics	"Exploring The Biodiversity Patterns Of Anatolia Under Changing Climatic Conditions"  Batuhan Atif Tunç, Emrah Çoraman- Istanbul Technical University  "Defining the Character of Turkey's Biodiversity Policies"	Remote Sensing "Evaluating The Temporal Consistency Of SAR And Optical Vegetation Indices For Cotton Monitoring Using Sentinel-1 And Sentinel-2"	Historical, Cultural and Social Context of Design"  "Decoding Toxic Attachment Between Design Products and the Users: Understanding by using Metaphors Bilge Cera Ny, Ozge Çelikoğlu - Istanbul Technical University	Game Design "Understanding Player Behavior: The Role of Intrinsic and Extr Muhammet Sinan Çavdar, Derya Güleç Özer, Hüseyin Kutay	trinsic Motivations in Bartle Player Types"  "The Transformative Effect of Digital Act Installation on Public Spaces." The Cross of Border Types"	
09:00 - 10:00	"Social Vulnerability Analysis of the Cities Affected by the February 6 Turkey Earthquake" Hilal Akın, Himmet Karaman - Istanbul Technical University	Image Processing "PET Image Denoising Using Denoising Uffusion Probabilistic Models (DDPMs)"	Süleyman İlteber Uçar - <i>İstanbul Technical University</i> Paleo-Ecology	Alp Eren Furkan Demirci, Ayşe Filiz Sunar - Istanbul Technical University  GEOGRAPHIC INFORMATION TECHNOLOGIES	"Discovering the Choir Members' Practices: An Initial Understanding of the Intersection of Design, Music, and Community" Gürkay Aydoğmuş, Koray Gelmez - Istanbul Technical University	"Optimizing Level Production in Hidden Object Games Ekin Demircan, Sema Alaçam - Istanbul Tr	Technical University  Elieus of educating And Select interaction of Deference An Examination Intograph Treaty in Naturely Irem Indextroop, Gibben Demet Orug - Istanbul Technical University	
	"Transformation of Solid Waste Management in Baku: A GIS-Based MCDM Approach to Landfill Site Selection Beyond Balakhani"  Kanan Alakbarlı, Dursun Zafer Seker - Istanbul Technical University  "Spatial Problems and Effective Factors in Hospital Campus Structure"	Emine Pacci, isa Yildirm - Istanbul Technical University  "Iterative Reconstruction Applications For Aircraft Image Restoration"	"The Geoarchaeology of The Ambar Basin (Diyarbakir) In the Light of GIS and Geomorphological Data" Aladdin Al, Kemal Koçakli - Dicle University	Artificial Intelligence and Machine Learning in Remote Sensing Analysis "Current Challenges in Port Management And Common Approaches From Geographic Information Technologies (GIT)"	Product Design "Testing the Aesthetic Responses to Small Household Appliances in the Context of Incremental Innovation" Fatma Cizreliogilu Karaer, H. Tengüz Ünsal - Marmara University	"Impossible Spaces in Games: Using Anamorphic Projection in Space Interac frem Aydındoğan, Sema Alaçam - Istanbul 1 "A Systematic Approach To Ludonarrative Harmony: Methods For A	Technical University  "The Impact of Space on Sound Perception: The Relationship Between Sound and Context"	
	Spadar Problems and Entective Factors in nospinal campus structure Ozgūr Elmas, Rahmi Nurhan Çelik - <i>Istanbul Technical University</i>	Emirhan Gül, Ender Mete Ekşiöğlu - <i>Istanbul Technical University</i>	"Exploring the Evolution of Socio-Ecological Systems Through Agent-Based Modeling in Resulogiu Höyük (North-Central Anatolia) During the Early Bronze Age (4300–4100 BP)"  Kemal Kocakli, Bülent Arikan, Neriman Erdem - Istanbul Technical University	Cemre Fazilet Aldoğan, Hande Demirel - Istanbul Technical University  Remote Sensing Applications in Natural Disaster and Natural Resource Management "Spatiotemporal Change Analysis and Future Projections of Wetlands in Central Anatolia, Türkiye"	·	Cem Çelik, Ayşegül Akçay Kavakoğlu - Istanbu		
				Spandempora Change Analysis and Fuder Projections of Wednams in Central Anatone, Turkye Hilal Daşdemir - Istanbul Technical University				
	Chair: Prof. Dr. Bihter Erol	Chair: Dr. Meriç Yücel	Chair: Asst. Prof. Dr. Recep Kaya	Chair: Prof. Dr. Himmet Karaman	Chair: Assoc. Prof. Dr. Koray Gelmez	Chair: Assoc. Prof. Dr. De	erya Güleç Özer Chair: Assoc. Prof. Dr. Mehmet Emin Şalgamcıoğlu	
	GEOMATICS ENGINEERING	COMPUTER ENGINEERING	ENVIRONMENTAL ENGINEERING	GEOGRAPHIC INFORMATION TECHNOLOGIES	INDUSTRIAL DESIGN	GAME AND INTERACTION TE		
	Remote Sensing "Aircraft Contrails Detection with Deep Learning Methods on Remote Sensing Images" Caglatay Yildrim - Istanbul Technical University	Artificial Intelligence "Multi-Lead ECG Classification Using a Mixture-of-Experts Transformer Model" Atalay Çelik, Mehmet All Ergöln - Istanbul Technical University	Air Pollution and Control	Spatial Data Algorithms and Visualization and 3D GIS Technologies "Tactile Map Production Processes and Application Areas for Visually Impaired" Ayga Ersalan - Istanbul Technical University	Theory and Methodology in Industrial Design "Understanding Creativity: A Survey-Based Investigation into the Psychology of Designers' Creativity during the Ideation Phase"	"An Analysis of Gaming Behavior Through Bartle's Pla Asena Ersoy, Leman Figen Gul - <i>Istanbul T</i>	ayer Model & Human Psychology"  Technical University  URBAN DESIGN	
10:00 - 11:00 "In	"Investigation of Anthropogenic Effects in Protected Wetlands Using Remote Sensing and Geographic Information Systems: A Case Study of Manyas Bird Lake and Bird Paradise National Park"	"The Role of Artificial Intelligence in Enhancing Software Quality: A Multivocal Literature Review"  Mels Toksoy, Murat Ylimaz - Gazi University	"Effects of Air Pollutant Parameters on Respiratory Diseases in Edirne"  Kutlay Özdemir, Burçak Kaynak - Istanbul Technical University  Membrane Technologies	Spatial Planning and Management with GIS Applications "Mitigating Urban Heat Island Effects through Nature-Based Solutions: The Case of Istanbul"	Naz Feryal Cezayifi, aysun Ateş Akdeniz - Istanbul Technical University  "User Narrativa as Antenarrative: Exploring New Possibilities" Füden Ateş, Özge Merzali Çelikoğlu - Istanbul Technical University	Game Production "RNBO for Game Development: A Framework for Dyna Deniz Koçak, Ozan Saner - Istanbul Tec	namic and Adaptive Audio Design"  "A Study of Meaning in Kulins: Ancient Cities as Upen-Air Museum"  Paper Callabae, Meaning Finish (Adaptive Audio Design)	
	llyas Bursa, Adalet Dervişoğlu - Istanbul Technical University  "Enhancing Sentinel-1 SAR Geolocation Accuracy The Inpact of DEM on Orthorectification Performance" Sena Oğuzhanoğlu, Filiz Sunar - Istanbul Technical University	"An Intelligent Jamming Environment: Reinforcement Learning Approach" Omer Faruk Dikmen, Hasari Çelebi - Gebze Technical University	"Preliminary Experimental Investigation of Nanofiltration and Reverse Osmosis Processes for Desalinating Seawater" Hande Guican, Derya Y. Koseoglu Imer - Istanbul Technical University	Gizem Baydı, Fatih Terzi - Istanbul Technical University  "City Model Production with Lidar Technology and Integration of Urban Transformation with GIS: The Example of Zeytinburnu District"	"Exploring Emotions in Design Research: An Initial Mapping of Emotion-based Concepts"  Gamze Uğurlukişi, Koray Gelmez Istanbul Technical University	AI in Gaming "Preliminary Study on the Feasibility of Neural Network-Based Genera	Urban Resilience ative AI Models in Video Game Music Production" "Shaping Resilient Cities: Pedestrianization as a Tool for Open Space Networks"	
	"Offshore Wind Turbine Site Selection in the Aegean Sea" Şule Feride Ardıç, Adalet Dervişoğlu - Istanbul Technical University	Computer Networks "Adaptive Consensus Algorithms for Blockchain Networks" Esin Küçülkmeriç, Adnan Ozsoy - Hacettepe University	"Enhancing Reverse Osmosis Performance: A CFD-Based Study of Randomized Feed Spacer Geometries" Rabiya Karalı Türker, Halil Ekici, Cemanur Aydınalp - Istanbul Technical University	Merve Altın Çetinkaya, Mustafa Yanalak - Istanbul Technical University  "Analysis of Customer Complaints in Mobile Communication Networks with GIS"  Merve Tanur, Rahmi Nurhan Çelik - Istanbul Technical University	"Prompt 'Design the Perfect Product': A Literature Review on Al Incorporation in Industrial Design Processes"  Sude Kartalbaş, Aysun Aleş Akdeniz - Istanbul Technical University	Ülkü Nur Nar, Ozan Saner - Istanbul Tec "A Comparative Study for Analyzing LLM Performan irem Şalk, Sanem Sanel - Istanbul Tect	nce in Bluff-Based Card Games"	
	Chair: Prof. Dr. Bihter Erol	Chair: Assoc. Prof. Dr. Şerif Bahtiyar	Chair: Asst. Prof. Dr. Ebru Acuner Türet	Chair: Assoc. Prof. Dr. Börte Köse Mutlu		Chair: Assoc. Prof. Dr. De		
	GEOMATICS ENGINEERING		SUSTAINABILITY				gu estas est	
	Natural Hazards "Seismic Hazard Assessment of Kahramanmaraş Region: Analysis of Earthquake Sources and Probabilistic Seismic Risk"	COMPUTER ENGINEERING  Cyber Security	Climate Change Mitigation	SUSTAINABILITY  Life Cycle Assessment		GAME AND INTERACTION TE	And the second s	
	Sajjad Alghezi, Abdullah Can Zullikar - Istanbul Technical University  "Flood Risk Analysis with Geospatial Artificial Intelligence Techniques"	"Reputation Based Decision Making Consensus Mcchanism for UAV Swarms with Ethereum Blockchain" Mustafa Tosun, Şerif Bahtiyar - Istanbul Technical University	"Assessing Decarbonization Strategies and Decoupling Trends of Türkiye's Private Sector Companies"  Asir Ceydanur Akbaba, Kadriye Elif Maçin, Börte Köse Mutlu - Istanbul Technical University  "The Relationship between Sustainable Finance and the Carbon Border Adjustment Mechanism (CBAM): A Policy Impact Assessment and Hypothetical Case Study of	"The Intersection Infrastructure of LCA-BIM Integration: Applicability in Turkey and Europe" Tugba Ayvaz - Istanbul Technical University		Gamification "Procedural Entity Generation For Simul Gazi Muhammet Canbolat, Selçuk Sümengen, Sema Alaç	ulated Ecosystems"  "A Brief Historical Trajectory of Art Collectives as a Commoning Practice in Turkey"	
11:00 - 12:00	Miraç Taha Dermani, Muhammed Oğuzhan Mele - Istanbul Technical University  Geodesy	"Enhancing IoT Botnet Detection: A Streamlined Approach to Feature Selection" Nitifer Uslan, Şerff Bahtiyar- Istanbul Technical University "Neuromorphic Computing and Mennistor-Based Network Attack Detection Systems: New Approaches in Cybersecurity"	a Coment Plant" Inci Nur Çetin - Istanbul Technical University	Sustainable Development Goals  "Enhanced Efficiency of PLA-Based Membranes via Optimizing Coagulation Bath Temperature"  Rana Memarzadeh, Vahid Vatanpour, Mohhamadreza Nofar - Istanbul Technical University		Interaction Technolog "Naval History Reconstruction Through 3D Mi Deniz Çakır, Gödkeniz Neyer <i>- Dokuz E</i>	odeling and Simulation"  From Functional to inaginary Forms: Aley Eduzzya Siesolye's Geramics  Funda Tiripi Ashban Erkmen, I (slaban) Technen, I (	
	"On the Role of Earth Observations and Geodetic Data in Environmental and Climate Change"  Solmaz Farnad, Biher Erol - Istanbul Technical University	Yusuf Eika Köylü, İlhan Kocaarslan - İstanbul Technical University  Embedded Systems	Smart and Sustainable Cities "Investigation of Green Buildings Towards Net Zero Carbon in Cities: Example in ITU Ayazaga Campus" Merve Mapin, Ismail Toroz - Istanbul Technical University	"Investigation of Green Buildings Towards Net Zero Carbon in Cities: Example in ITU Ayazaga Campus"  "Evaluation the Motor Example of Truth of Moder And Control in Tituthus"		Series Games "Mechanics To Design Virtual Reality Cogni	Art and Technology  "The Role of Digital Technologies in Museum Storytelling: Ephesus Experience Museum"	
	Photogrammetry  "Generating a High-Definition Map (HD Map) via YOLO (You Only Look Once) Deep Learning-Based Object Detection Model"  Yasin Memi, Hande Demirel - Istanbul Technical University	"Comparison of the Effects of Different Compiler Environments on Communication Signal Detection Software"  Mustafa Imeci, Onur Göksel, Bilge Minisker, Sergen Çetin - Asetsan	"An Inclusive Digital Accessibility Policy for Individuals with Disabilities" Oylum Bülbül, Hatice Ayataç - Istanbul Technical University	Calling and tool made trained on the control of		Evrim Kabadayı, Leman Figen Gül - <i>Istanbul</i>	Hilal Kesikci, Zeynep Kuban Tokgöz - Istanbul Technical University  Hilal Kesikci, Zeynep Kuban Tokgöz - Istanbul Technical University	
			* THE PRESENTATION DUR	RATION IS DEFINED AS 15 MINUTES, INCLUDING Q-A (ONLY FOR ORAL PRESENT)	ATION)			
				14 MAY 2025, WEDNESDAY				
			IN PERSON, ITU Süleyma	n Demirel Arts and Conference Center, Ay	vazağa Campus			
TIME		GROUND FLOOR and FIRST FLOOR IN PERSON	ТІМЕ	CONFEREI IN PER		TIME	WORKSHOP HALL IN PERSON	
							Chair: Prof. Dr. Aydan Turanlı	
	POSTER SESSION						SCIENCE, TECHNOLOGY AND SOCIETY (STS)	
							Communication of Science and Technology	
						10:00 - 11:00	"A Bibliometric Analysis of Metaverse Technologies in Healthcare Services" Seçkin Damar, Gülşah Hançerlioğulları Köksalmış, <i>Istanbul Technical University</i>	
							Social Dimensions of Science and Technology "The Impact of Music Platforms on Music Production and Taste Profiles in Turkey: The Case of Spotify" Met Sarikaya, Ebru Vetişkin, Isharbul Technical University	
09:00 - 12:45			10:00 -11:30	"3 MINUTE THESIS" Competition			Social and Ethical Dimensions of Al	
				O MINIOTE THEO			"Unintended Consequences Of Generative Al In Product Ideation: A Product Management Perspective"  Tugge Güllekin Atlı, Deniz Tunçalp, Istanbul Technical University	
							KEYNOTE SPEAKER	
							STS - Talk	
						11:15 - 12:00 "Democratic S	Science And Participation in the Digital Era: Insights from Citizen Science Projects in the Environmental And Marine Sciences"	
						Asst. Prof. Allesandra Cenci, Aalborg University - Denmark		
							* The distinguished speaker is hosted within the scopus of ERASMUS+ programme.	
12:45-13:00				CLOSING REMARKS				
12:45-13:00			Prof. Dr.		niversity			
12:45-13:00				r. Fatma Seniha GÜNER , Institute Director, Istanbul Technical Ur	·			
12:45-13:00 13:00 - 14:00			COI		·			