

4th INTERNATIONAL GRADUATE RESEARCH SYMPOSIUM - IGRS'25



12 MAY 2025, MONDAY
ONLINE

OPENING REMARKS

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"
Prof. 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
10:00 - 11:00	Chair: Assoc. Prof. Dr. Abdullah Aydoğan	Chair: Dr. Demet Aydoğmuş	Chair: Asst. Prof. Dr. Saeed Tasouji Hassanpour	Chair: Assoc. Prof. Dr. Sefer Baday	Chair: Asst. Prof. Dr. Ayşe Elvan Bayraktaroğlu	Chair: Asst. Prof. Dr. Murat Yeşilgözü	Chair: Prof. Dr. Sevinç Asilhan, Asst. Prof. Dr. Emre Avunduk
11:00 - 12:00	CHEMISTRY "The Design and Application of Novel Free-Radical Catalysts for Olefin Polymerization" "Synthesis of Fluorinated Polymers with Tunable Properties" "Investigation of Fluorinated Polymers of ZIF-8 Structure Modified with Graphene Quantum Dots" "Synthesis of Poly(ethylene Glycol) Copolymers with Tunable Properties" "Synthesis of Poly(ethylene Glycol) Copolymers with Tunable Properties" "Synthesis of Poly(ethylene Glycol) Copolymers with Tunable Properties"	METALLURGY AND MATERIALS ENGINEERING "Thermal and Mechanical Properties of Polymer Matrix Composites" "Characterization of Tensile and Compressive Properties of Polymer Matrix Composites" "Thermal and Mechanical Properties of Polymer Matrix Composites" "Characterization of Tensile and Compressive Properties of Polymer Matrix Composites"	MANAGEMENT ENGINEERING "The Adoption of Smart Smart Home Appliances: An Integrative Model of Consumer Acceptance and Behavior" "The Adoption of Smart Smart Home Appliances: An Integrative Model of Consumer Acceptance and Behavior"	DATA ENGINEERING AND BUSINESS ANALYTICS "Predictive Analytics and Machine Learning in Business" "Predictive Analytics and Machine Learning in Business"	INDUSTRIAL ENGINEERING "Decision Making" "Decision Making"	CONTROL AND AUTOMATION ENGINEERING "Advances in Automatic Control Engineering" "Advances in Automatic Control Engineering"	METEOROLOGICAL ENGINEERING "Atmospheric Meteorology" "Atmospheric Meteorology"

BREAK

SESSION - II

TIME	MAIN HALL	HALL - I	HALL - II	HALL - III	HALL - IV	HALL - V	HALL - VI
13:00 - 14:00	Chair: Asst. Prof. Dr. Berna Doğan, Asst. Prof. Dr. Hüseyin Enis Karahan	Chair: Dr. Yonca Alkan Gökse	Chair: Asst. Prof. Dr. Saeed Tasouji Hassanpour	Chair: Prof. Dr. Seher Melike Aydoğan	Chair: Assoc. Prof. Dr. Umut Asan	Chair: Asst. Prof. Dr. Erhan Yumuk	Chair: Asst. Prof. Dr. Ramazan Yenigiri
14:00 - 15:00	CHEMISTRY "Drug Design & Drug Delivery (Computational and Experimental)" "Drug Design & Drug Delivery (Computational and Experimental)" "Drug Design & Drug Delivery (Computational and Experimental)"	METALLURGY AND MATERIALS ENGINEERING "Metals and Alloys" "Metals and Alloys"	MANAGEMENT "Human Resource Management" "Human Resource Management"	MATHEMATICAL ENGINEERING "Applied Mathematics" "Applied Mathematics"	INDUSTRIAL ENGINEERING "Manufacturing Management" "Manufacturing Management"	CONTROL AND AUTOMATION ENGINEERING "Applications of Control Engineering" "Applications of Control Engineering"	DEFENSE TECHNOLOGIES "Structural Design and Analysis" "Structural Design and Analysis"
15:00 - 16:00	COMPUTATIONAL SCIENCE AND ENGINEERING "Computational Fluid Dynamics" "Computational Fluid Dynamics"	MATERIAL SCIENCE AND ENGINEERING "Nanomaterials" "Nanomaterials"	ECONOMY "Financial Crisis and Macroeconomic Policies" "Financial Crisis and Macroeconomic Policies"	PHYSICS ENGINEERING "Optics and Photonics" "Optics and Photonics"	HISTORY OF SCIENCE AND TECHNOLOGY "History of Engineering" "History of Engineering"	EARTHQUAKE ENGINEERING "Artificial Intelligence, Machine Learning, and Deep Learning in Earthquake Engineering" "Artificial Intelligence, Machine Learning, and Deep Learning in Earthquake Engineering"	RAILWAY SYSTEMS ENGINEERING "Railway Systems Engineering" "Railway Systems Engineering"
16:00 - 17:00	APPLIED INFORMATICS "Computer-Aided Design (CAD) and Simulation" "Computer-Aided Design (CAD) and Simulation"	POLYMER SCIENCE AND TECHNOLOGY "Polymer and Nanocomposites" "Polymer and Nanocomposites"	REAL ESTATE DEVELOPMENT "Real Estate Development" "Real Estate Development"	TEXTILE ENGINEERING "Textile Engineering" "Textile Engineering"	EARTHQUAKE ENGINEERING "Structural Analysis and Design" "Structural Analysis and Design"	PETROLEUM AND NATURAL GAS ENGINEERING "Petroleum and Natural Gas Engineering" "Petroleum and Natural Gas Engineering"	

4th 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. Almia Büyüktaşkın	Chair: Assoc. Prof. Dr. Özge Özdemir	Chair: Prof. Dr. Mehmet Murat Monkul	Chair: Prof. Dr. Uner Çolak	Chair: Assoc. Prof. Dr. Ersin Sayar
09:00 - 10:00	MUSICOLOGY AND MUSIC THEORY Musical Theory "Exploring Prose-Copy Transcriptions in Turkish Court Music Performance Works with Mixed Media" Suzan Ergün - İstanbul Technical University "Analysis of Vertical Structures in the Context of Set Theory in İsmet Paşa's 'Kıvılcıkların Çeyrek' Tone System For Two Flutes, Op. 21" Suzan Ergün - İstanbul Technical University "folk Music and Classical Composition: A New Framework to Explore Music Based on Bertok's Three Folk Music Collections" Suzan Ergün - İstanbul Technical University "Inventory in Broecker's Late Period: Use of Evidence Towards the First Movement of Del Peccador" Suzan Ergün - İstanbul Technical University	ARCHITECTURE Conservation and Restoration "The Rural Settlement Structure and the Challenge of Preserving Traditional Housing in Tuz Gölü (Büyük Van) Valley" Erol Sökmen, Duygu Arslan Özgür - İstanbul Technical University "Evolution of the Transformation of Kırıkkale Urban Conservation and its Relationship Between 2000 and 2022 in the Context of Conservation and Sustainability" Duygu Arslan Özgür - İstanbul Technical University "Evaluating the Impact of Light and Sound on the Preservation of Cultural Heritage in Istanbul" Suzan Ergün - İstanbul Technical University "Evaluating the Impact of Light and Sound on the Preservation of Cultural Heritage in Istanbul" Suzan Ergün - İstanbul Technical University "Urban Music Studies" Nurgül Çelik, Çiğdem Toprak - İstanbul Technical University	ARCHITECTURE Building Construction Technologies "Impact of Orientation Due to Environmental Factors in Sustainable Performance of Residential Tower Buildings in Istanbul" Süleyman Serdar - İstanbul Technical University "Evaluation of Usage Mechanisms of Reinforced Concrete Moment Resisting Structures in First Earthquakes in Turkey" Suzan Ergün - İstanbul Technical University "Evaluation of Light and Sound on the Preservation of Cultural Heritage in Istanbul" Suzan Ergün - İstanbul Technical University "Evaluation of the Impact of Light and Sound on the Preservation of Cultural Heritage in Istanbul" Suzan Ergün - İstanbul Technical University "Evaluation of the Impact of Light and Sound on the Preservation of Cultural Heritage in Istanbul" Suzan Ergün - İstanbul Technical University	AERONAUTICAL AND ASTRONAUTICAL ENGINEERING Aircraft Design, Flight Dynamics and Performance "The Effect of Wing Planform on the Aerodynamic Performance of a High-Speed Aircraft" Suzan Ergün - İstanbul Technical University "Wing Design, Optimization and Performance Analysis for a Fighter Aircraft" Suzan Ergün - İstanbul Technical University "Stability Analysis of Hypersonic Flow Fields: Turbulence Modeling and Heat Flux Prediction" Suzan Ergün - İstanbul Technical University "Stability Analysis of Hypersonic Flow Fields: Turbulence Modeling and Heat Flux Prediction" Suzan Ergün - İstanbul Technical University "Stability Analysis of Hypersonic Flow Fields: Turbulence Modeling and Heat Flux Prediction" Suzan Ergün - İstanbul Technical University	SOIL MECHANICS AND GEOTECHNICAL ENGINEERING Geotechnics "Modeling Lateral Spreading of Sandy Soils" Suzan Ergün - İstanbul Technical University "Evaluation of Geotechnical Characteristics of Rocked Concrete Aggregates in Dam Structures" Suzan Ergün - İstanbul Technical University "Geotechnical Earthquake Engineering" Suzan Ergün - İstanbul Technical University "Dynamic Soil Response Analysis for a Dam with a Rock Core" Suzan Ergün - İstanbul Technical University	ENERGY SCIENCE AND TECHNOLOGY Computational Heat and Mass Transfer "Optimization of Thermal Flow Performance in a Turbine Cooling Passage" Suzan Ergün - İstanbul Technical University "Numerical Investigation of Engine Cooling Using Microfluidics" Suzan Ergün - İstanbul Technical University "Electrochemical and Thermal Modeling of Lithium-Ion Batteries for Temperature Distribution Based on Cathode Materials" Suzan Ergün - İstanbul Technical University "Flow Control and Thermal Behavior of Bearings Using a Proportional Valve in a Closed-Loop Lubrication System for Turbine Engines" Suzan Ergün - İstanbul Technical University	MECHANICAL ENGINEERING Computational Fluid Dynamics "Optimization of Thermal Flow Performance in a Turbine Cooling Passage" Suzan Ergün - İstanbul Technical University "Analysis of Effects of Turbulence on Heat Transfer Performance" Suzan Ergün - İstanbul Technical University "Aerodynamic Performance Enhancement of a 2D Airfoil Profile Through Geometric Modifications" Suzan Ergün - İstanbul Technical University "Optimization of Polymer Melting Temperature by Extrusion Method" Suzan Ergün - İstanbul Technical University
	Chair: Prof. Dr. Burcu Yıldız	Chair: Dr. Gökrem Günay	Chair: Assoc. Prof. Dr. Tank Serhat Bozkurt	Chair: Assoc. Prof. Dr. Emre Koyuncu	Chair: Assoc. Prof. Dr. Deniz Artan	Chair: Asst. Prof. Dr. Sevan Karaböğözü	Chair: Asst. Prof. Dr. Korhan Şahin
10:00 - 11:00	MUSICOLOGY AND MUSIC THEORY Popular Music "It's Gonna Be a Beautiful Day: A Study on 'The Musical Men'" Suzan Ergün - İstanbul Technical University "The Issue of 'Originality' in Arabic Music: Analysis of Musical Knowledge, Creativity, and Production Practices from Arab Music" Suzan Ergün - İstanbul Technical University "Analysis of Some Manuscripts from the Arabic Music Conference 1922" Suzan Ergün - İstanbul Technical University "Music as 'Whisper' from Reality: Subjective Aesthetic Perception" Suzan Ergün - İstanbul Technical University	ARCHITECTURE Architectural History "Rural Houses in Residential Architecture: Proposals of Residential Sites according to the Social Hierarchies in the South East" E. Savaş Aksoy, Özgür - İstanbul Technical University "Spatial Representation in Recent New Home Complexes: An Analysis Through Agents' Views On A.I. (1982 Film)" Suzan Ergün - İstanbul Technical University "Urbanization Through Urbanization: Research on 'Urbanization'" Suzan Ergün - İstanbul Technical University "The Impact of Islamic Calligraphy on the Architecture of the 20th Century: The Role of Perfection" Suzan Ergün - İstanbul Technical University	ARCHITECTURE Building Construction Technologies "Evaluation of Sustainability Techniques in Residential Concrete Buildings" Suzan Ergün - İstanbul Technical University "Multi-Agent Reinforcement Learning with Behavior Primitives for Collaborative Control of a Drone Swarm" Suzan Ergün - İstanbul Technical University "Evaluation of the Seismic Performance of Reinforced Concrete Structures in Relation to Structural Deterioration" Suzan Ergün - İstanbul Technical University "Structural Control, Design and Performance" Suzan Ergün - İstanbul Technical University "Evaluation of the Seismic Performance of Reinforced Concrete Structures in Relation to Structural Deterioration" Suzan Ergün - İstanbul Technical University "The Impact of Islamic Calligraphy on the Architecture of the 20th Century: The Role of Perfection" Suzan Ergün - İstanbul Technical University	AERONAUTICAL AND ASTRONAUTICAL ENGINEERING Control Systems, Adaptive, Intelligent, Digital, Optimal, Pneumatic/Hydraulic "Multi-Agent Reinforcement Learning with Behavior Primitives for Collaborative Control of a Drone Swarm" Suzan Ergün - İstanbul Technical University "Control Systems, Adaptive, Intelligent, Digital, Optimal, Pneumatic/Hydraulic" Suzan Ergün - İstanbul Technical University "Control Systems, Adaptive, Intelligent, Digital, Optimal, Pneumatic/Hydraulic" Suzan Ergün - İstanbul Technical University	CONSTRUCTION MANAGEMENT Construction Project Management "Optimizing the Project Quality Risk in Turkish Construction Industry" Suzan Ergün - İstanbul Technical University "Evaluating the Project Quality Risk in Turkish Construction Industry" Suzan Ergün - İstanbul Technical University "Evaluating the Project Quality Risk in Turkish Construction Industry" Suzan Ergün - İstanbul Technical University	ENERGY SCIENCE AND TECHNOLOGY Energy Conversion and Storage Technologies "Sustainable Energy Storage Systems for Renewable Energy Sources" Suzan Ergün - İstanbul Technical University "Sustainable Energy Storage Systems for Renewable Energy Sources" Suzan Ergün - İstanbul Technical University "Sustainable Energy Storage Systems for Renewable Energy Sources" Suzan Ergün - İstanbul Technical University	MECHANICAL ENGINEERING System Dynamics and Control "Robust System Identification of a Soft Control System" Suzan Ergün - İstanbul Technical University "Robust System Identification of a Soft Control System" Suzan Ergün - İstanbul Technical University "Robust System Identification of a Soft Control System" Suzan Ergün - İstanbul 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 Karaböğözü, Prof. Dr. Hakan Ali Çirpan	Chair: Prof. Dr. Erdinç Altuğ
11:00 - 12:00	MUSICOLOGY AND MUSIC THEORY Ethnomusicology "Evaluating Sounds on the Water from an Ecological Perspective: The Case of Halk" Suzan Ergün - İstanbul Technical University	ARCHITECTURE Architectural History "The Historical Layers of Buildings in Contemporary Residential Contexts" Suzan Ergün - İstanbul Technical University "Urban Open Spaces as a Result of Change and Culture in Mediterranean Architecture" Suzan Ergün - İstanbul Technical University "Building Materials and Technologies" Suzan Ergün - İstanbul Technical University "Developing One-part Descriptive Models for Buildings in Contemporary Residential Contexts" Suzan Ergün - İstanbul Technical University	ARCHITECTURE Environmental Control and Building Technology "Microclimate and Sustainable Architecture: A Case Study of Istanbul" Suzan Ergün - İstanbul Technical University "Microclimate and Sustainable Architecture: A Case Study of Istanbul" Suzan Ergün - İstanbul Technical University "Microclimate and Sustainable Architecture: A Case Study of Istanbul" Suzan Ergün - İstanbul Technical University	AERONAUTICAL AND ASTRONAUTICAL ENGINEERING Mechanical Vibrations and Structural Dynamics "Mechanical Vibrations and Structural Dynamics" Suzan Ergün - İstanbul Technical University "Mechanical Vibrations and Structural Dynamics" Suzan Ergün - İstanbul Technical University "Mechanical Vibrations and Structural Dynamics" Suzan Ergün - İstanbul Technical University	CONSTRUCTION MANAGEMENT Construction Project Management "The Role of Cloud-Based Construction Management Systems in Enhancing Project Efficiency" Suzan Ergün - İstanbul Technical University "The Role of Cloud-Based Construction Management Systems in Enhancing Project Efficiency" Suzan Ergün - İstanbul Technical University "The Role of Cloud-Based Construction Management Systems in Enhancing Project Efficiency" Suzan Ergün - İstanbul Technical University	ENERGY SCIENCE AND TECHNOLOGY Renewable Energy "Feasibility Assessment of Hydrogen Fuel Cell Integration in the Smart Grid with the Structural and Operational Considerations" Suzan Ergün - İstanbul Technical University "Feasibility Assessment of Hydrogen Fuel Cell Integration in the Smart Grid with the Structural and Operational Considerations" Suzan Ergün - İstanbul Technical University "Feasibility Assessment of Hydrogen Fuel Cell Integration in the Smart Grid with the Structural and Operational Considerations" Suzan Ergün - İstanbul Technical University	MECHANICAL ENGINEERING Machine Dynamics, Vibration, and Acoustics "Comparison of Time and Frequency Approaches for Finite Element Analysis Using the Finite Element Method" Suzan Ergün - İstanbul Technical University "Acoustical Investigation of the Effect of Noise on the Performance of a Turbine Engine" Suzan Ergün - İstanbul Technical University "Acoustical Investigation of the Effect of Noise on the Performance of a Turbine Engine" Suzan Ergün - İstanbul Technical University
12:00 - 13:00	BREAK						

SESSION - IV

TIME	MAIN HALL	HALL - I	HALL - II	HALL - III	HALL - IV	HALL - V	HALL - VI	
	Chair: Assoc. Prof. Dr. Gökhan Deneç	Chair: Assoc. Prof. Dr. Bihler Almaç	Chair: Prof. Dr. Hatice Ayataç	Chair: Prof. Dr. Mehmet Şahin	Chair: Asst. Prof. Dr. Ömer Tuğrul Turan	Chair: Assoc. Prof. Dr. Onur Ferhanoglu	Chair: Prof. Dr. Ala Muğan	
13:00 - 14:00	MUSIC Sound Engineering and Design "Transformation of Digital Audio from Mono to Stereo" Suzan Ergün - İstanbul Technical University "Methodology in Participatory Media Analysis: Insights from Audio Recording Scenes on Halk Music" Suzan Ergün - İstanbul Technical University "Spatial Audio Mixing in 3D Audio: Challenges, Experimentation and Applications for Immersive Sound" Suzan Ergün - İstanbul Technical University "Music, Memory and the Relationship Between Music, Memory and Culture in Turkey: The Past, Present, and Future" Suzan Ergün - İstanbul Technical University	ARCHITECTURE Architecture Design Theory "Soft Matters: (Re)Defining Architecture Through Performative Practices" Suzan Ergün - İstanbul Technical University "Urban Open Spaces as a Result of Change and Culture in Mediterranean Architecture" Suzan Ergün - İstanbul Technical University "Building Materials and Technologies" Suzan Ergün - İstanbul Technical University "Architectural Excursions: Reading Spatial History through Memory through Spatial Practices" Suzan Ergün - İstanbul Technical University	URBAN AND REGIONAL PLANNING Transportation Planning and Urban Infrastructure "Towards Walkable and Green Cities: A Study on the Urban Design of Istanbul" Suzan Ergün - İstanbul Technical University "Towards Walkable and Green Cities: A Study on the Urban Design of Istanbul" Suzan Ergün - İstanbul Technical University "Towards Walkable and Green Cities: A Study on the Urban Design of Istanbul" Suzan Ergün - İstanbul Technical University	AERONAUTICAL AND ASTRONAUTICAL ENGINEERING Theoretical, Computational and Experimental Aerodynamics and Fluid Dynamics "Fully Coupled CFD-DEM Simulation for Particle Flow in a Turbulent Flow" Suzan Ergün - İstanbul Technical University "Fully Coupled CFD-DEM Simulation for Particle Flow in a Turbulent Flow" Suzan Ergün - İstanbul Technical University "Fully Coupled CFD-DEM Simulation for Particle Flow in a Turbulent Flow" Suzan Ergün - İstanbul Technical University	STRUCTURAL ENGINEERING Structural Analysis and Design "The Effect of Initial Imperfections in Steel I-beams on their Behavior" Suzan Ergün - İstanbul Technical University "The Effect of Initial Imperfections in Steel I-beams on their Behavior" Suzan Ergün - İstanbul Technical University "The Effect of Initial Imperfections in Steel I-beams on their Behavior" Suzan Ergün - İstanbul Technical University	CONSTRUCTION MANAGEMENT Construction Project Management "Assessing the Level of Digitalization of Construction Processes in Turkey" Suzan Ergün - İstanbul Technical University "Assessing the Level of Digitalization of Construction Processes in Turkey" Suzan Ergün - İstanbul Technical University "Assessing the Level of Digitalization of Construction Processes in Turkey" Suzan Ergün - İstanbul Technical University	ELECTRONICS AND COMMUNICATION ENGINEERING Computational Solid Mechanics "Parametric Investigation of Mechanical Properties for a Layered Composite Beam Using Finite Element Analysis" Suzan Ergün - İstanbul Technical University "Parametric Investigation of Mechanical Properties for a Layered Composite Beam Using Finite Element Analysis" Suzan Ergün - İstanbul Technical University "Parametric Investigation of Mechanical Properties for a Layered Composite Beam Using Finite Element Analysis" Suzan Ergün - İstanbul Technical University	MECHANICAL ENGINEERING Machine Dynamics, Vibration, and Acoustics "Structural Optimization of a Turbine Engine Component for Weight Reduction and Performance Enhancement" Suzan Ergün - İstanbul Technical University "Structural Optimization of a Turbine Engine Component for Weight Reduction and Performance Enhancement" Suzan Ergün - İstanbul Technical University "Structural Optimization of a Turbine Engine Component for Weight Reduction and Performance Enhancement" Suzan Ergün - İstanbul Technical University
	Chair: Dr. Jane Harrison	Chair: Prof. Dr. Ozan Önder Özener	Chair: Assoc. Prof. Dr. Başak Demireç	Chair: Asst. Prof. Dr. Saliha Banu Yılmaz	Chair: Assoc. Prof. Dr. Murat Yılmaz	Chair: Prof. Dr. Ece Olcaç Güneş	Chair: Prof. Dr. Ala Muğan	
14:00 - 15:00	MUSIC Musical Theory "Effects of Performance Space on Interpretation Practices" Suzan Ergün - İstanbul Technical University "Cyber Video and Remote Experience in Music Performance: A Study on the Relationship Between Music, Memory and Culture in Turkey: The Past, Present, and Future" Suzan Ergün - İstanbul Technical University "Sonic Memory of the 2023 Earthquake: A Study on the Relationship Between Music, Memory and Culture in Turkey: The Past, Present, and Future" Suzan Ergün - İstanbul Technical University "Challenging Conventions: Case Works No. 20 and the Soundscapes of 19th-Century Music" Suzan Ergün - İstanbul Technical University	ARCHITECTURE Architecture Design Theory "The Performance of the Archive in an Event: Exploring Architecture" Suzan Ergün - İstanbul Technical University "Reading Architectural Memory through Chronotopical Image: A Study on the Relationship Between Music, Memory and Culture in Turkey: The Past, Present, and Future" Suzan Ergün - İstanbul Technical University "Climate Change and Planning" Suzan Ergün - İstanbul Technical University "The Impact of Governmental Power on Urban Morphology: A Case Study of London" Suzan Ergün - İstanbul Technical University	URBAN AND REGIONAL PLANNING Sustainability, Ecology, and Energy in Planning "Sustainable Urban Planning: A Study on the Urban Design of Istanbul" Suzan Ergün - İstanbul Technical University "Sustainable Urban Planning: A Study on the Urban Design of Istanbul" Suzan Ergün - İstanbul Technical University "Sustainable Urban Planning: A Study on the Urban Design of Istanbul" Suzan Ergün - İstanbul Technical University	AERONAUTICAL AND ASTRONAUTICAL ENGINEERING Theoretical, Computational and Experimental Aerodynamics and Fluid Dynamics "Digital Twin Application in System-Level Modeling for Aerospace Applications of a Rocket Engine: A Review" Suzan Ergün - İstanbul Technical University "Digital Twin Application in System-Level Modeling for Aerospace Applications of a Rocket Engine: A Review" Suzan Ergün - İstanbul Technical University "Digital Twin Application in System-Level Modeling for Aerospace Applications of a Rocket Engine: A Review" Suzan Ergün - İstanbul Technical University	STRUCTURAL ENGINEERING Structural Analysis and Design "Design and Analysis of Inverted-Curved Cylindrical Structures for Launch Vehicles: Mechanical Modeling and Buckling Factor Correlation with Finite Element Method" Suzan Ergün - İstanbul Technical University "Design and Analysis of Inverted-Curved Cylindrical Structures for Launch Vehicles: Mechanical Modeling and Buckling Factor Correlation with Finite Element Method" Suzan Ergün - İstanbul Technical University "Design and Analysis of Inverted-Curved Cylindrical Structures for Launch Vehicles: Mechanical Modeling and Buckling Factor Correlation with Finite Element Method" Suzan Ergün - İstanbul Technical University	CONSTRUCTION MANAGEMENT Construction Project Management "The Role of Cloud-Based Construction Management Systems in Enhancing Project Efficiency" Suzan Ergün - İstanbul Technical University "The Role of Cloud-Based Construction Management Systems in Enhancing Project Efficiency" Suzan Ergün - İstanbul Technical University "The Role of Cloud-Based Construction Management Systems in Enhancing Project Efficiency" Suzan Ergün - İstanbul Technical University	ELECTRONICS AND COMMUNICATION ENGINEERING Bio-Medical, Bio-Inspired Circuits/Systems "Parametric Investigation of Mechanical Properties for a Layered Composite Beam Using Finite Element Analysis" Suzan Ergün - İstanbul Technical University "Parametric Investigation of Mechanical Properties for a Layered Composite Beam Using Finite Element Analysis" Suzan Ergün - İstanbul Technical University "Parametric Investigation of Mechanical Properties for a Layered Composite Beam Using Finite Element Analysis" Suzan Ergün - İstanbul Technical University	MECHANICAL ENGINEERING Machine Dynamics, Vibration, and Acoustics "Effect of Wavelength, Material, and Fiber Orientation on the Dynamic Behavior of Fiber-Reinforced Composites" Suzan Ergün - İstanbul Technical University "Effect of Wavelength, Material, and Fiber Orientation on the Dynamic Behavior of Fiber-Reinforced Composites" Suzan Ergün - İstanbul Technical University "Effect of Wavelength, Material, and Fiber Orientation on the Dynamic Behavior of Fiber-Reinforced Composites" Suzan Ergün - İstanbul Technical University
	Chair: Dr. Robert Oliver Beahrs	Chair: Assoc. Prof. Dr. Ashkan Şenel	Chair: Prof. Dr. Hayriye Eşbah Tunçay	Chair: Assoc. Prof. Dr. Ramazan Çağlar	Chair: Assoc. Prof. Dr. Enes Zengin	Chair: Prof. Dr. Berna Örs Yalçın	Chair: Asst. Prof. Dr. Alper Tolga Çalkı	
15:00 - 16:00	MUSIC Musical Performance "Musical as a Cultural Practice: A Study on the Relationship Between Music, Memory and Culture in Turkey: The Past, Present, and Future" Suzan Ergün - İstanbul Technical University "The Relative Cost of Musical Instruments and the Role of Music in the Sound of the Future" Suzan Ergün - İstanbul Technical University "Exploring Deep Faculty: Social Ethnography and Active Inquiry through Audio Practice" Suzan Ergün - İstanbul Technical University	ARCHITECTURE Architecture Design Theory "The Performance of the Archive in an Event: Exploring Architecture" Suzan Ergün - İstanbul Technical University "Reading Architectural Memory through Chronotopical Image: A Study on the Relationship Between Music, Memory and Culture in Turkey: The Past, Present, and Future" Suzan Ergün - İstanbul Technical University "Climate Change and Planning" Suzan Ergün - İstanbul Technical University "The Impact of Governmental Power on Urban Morphology: A Case Study of London" Suzan Ergün - İstanbul Technical University	LANDSCAPE ARCHITECTURE Landscape Design "Sustainable Urban Planning: A Study on the Urban Design of Istanbul" Suzan Ergün - İstanbul Technical University "Sustainable Urban Planning: A Study on the Urban Design of Istanbul" Suzan Ergün - İstanbul Technical University "Sustainable Urban Planning: A Study on the Urban Design of Istanbul" Suzan Ergün - İstanbul Technical University	AERONAUTICAL AND ASTRONAUTICAL ENGINEERING Theoretical, Computational and Experimental Aerodynamics and Fluid Dynamics "Digital Twin Application in System-Level Modeling for Aerospace Applications of a Rocket Engine: A Review" Suzan Ergün - İstanbul Technical University "Digital Twin Application in System-Level Modeling for Aerospace Applications of a Rocket Engine: A Review" Suzan Ergün - İstanbul Technical University "Digital Twin Application in System-Level Modeling for Aerospace Applications of a Rocket Engine: A Review" Suzan Ergün - İstanbul Technical University	STRUCTURAL ENGINEERING Structural Analysis and Design "Design and Analysis of Inverted-Curved Cylindrical Structures for Launch Vehicles: Mechanical Modeling and Buckling Factor Correlation with Finite Element Method" Suzan Ergün - İstanbul Technical University "Design and Analysis of Inverted-Curved Cylindrical Structures for Launch Vehicles: Mechanical Modeling and Buckling Factor Correlation with Finite Element Method" Suzan Ergün - İstanbul Technical University "Design and Analysis of Inverted-Curved Cylindrical Structures for Launch Vehicles: Mechanical Modeling and Buckling Factor Correlation with Finite Element Method" Suzan Ergün - İstanbul Technical University	CONSTRUCTION MANAGEMENT Construction Project Management "The Role of Cloud-Based Construction Management Systems in Enhancing Project Efficiency" Suzan Ergün - İstanbul Technical University "The Role of Cloud-Based Construction Management Systems in Enhancing Project Efficiency" Suzan Ergün - İstanbul Technical University "The Role of Cloud-Based Construction Management Systems in Enhancing Project Efficiency" Suzan Ergün - İstanbul Technical University	ELECTRONICS AND COMMUNICATION ENGINEERING Bio-Medical, Bio-Inspired Circuits/Systems "Parametric Investigation of Mechanical Properties for a Layered Composite Beam Using Finite Element Analysis" Suzan Ergün - İstanbul Technical University "Parametric Investigation of Mechanical Properties for a Layered Composite Beam Using Finite Element Analysis" Suzan Ergün - İstanbul Technical University "Parametric Investigation of Mechanical Properties for a Layered Composite Beam Using Finite Element Analysis" Suzan Ergün - İstanbul Technical University	MECHANICAL ENGINEERING Machine Dynamics, Vibration, and Acoustics "Effect of Wavelength, Material, and Fiber Orientation on the Dynamic Behavior of Fiber-Reinforced Composites" Suzan Ergün - İstanbul Technical University "Effect of Wavelength, Material, and Fiber Orientation on the Dynamic Behavior of Fiber-Reinforced Composites" Suzan Ergün - İstanbul Technical University "Effect of Wavelength, Material, and Fiber Orientation on the Dynamic Behavior of Fiber-Reinforced Composites" Suzan Ergün - İstanbul Technical University
16:00 - 16:45	KEYNOTE SPEAKER							

"Reconstructing A Turkish Identity in Boston: Jazz, Mehter, Byzantine Music and the Process of Internalization"
Prof. Dr. Mehmet Ali SANLIKOL, *New England Conservatory - Boston*

4th INTERNATIONAL GRADUATE RESEARCH SYMPOSIUM - IGRS'25



SESSION - V							
TIME	MAIN HALL	HALL - I	HALL - II	HALL - III	HALL - IV	HALL - V	HALL - VI
17:00 - 18:00	<p>Chair: Prof. Dr. Kamile Perçin Akgül, Dr. Görkem Giray</p> <p>TRADITIONAL DANCES Dance, Traditional Dances in terms of its role in interdisciplinary interaction in performance areas "The Resurgence of Traditional Dance in Turkey: The Bazaar Dance 'Tül' Project" Gökçe İnanç, İstanbul Technical University</p> <p>POLITICAL STUDIES Political and Social Thought "State's Construction of 'Othering' Mechanisms, Stigmatization and Discrimination Processes" Özge Çelikkaya, İstanbul Technical University</p> <p>Political Philosophy "An Evaluation of Aristotle, Plato and Aristotle Regarding Their Conceptualizations of Political Legitimacy" Özge Çelikkaya, İstanbul Technical University</p>	<p>Chair: Asst. Prof. Dr. Eoem Tezel</p> <p>ARCHITECTURE Project and Construction Management "A Literature Review On Architectural Structures in The Construction Industry" Özge Çelikkaya, İstanbul Technical University</p> <p>"Investigating the Role of Data Management in Architecture for Sustainable Building of Construction (A Literature Review)" Nesrin Çelebi, İstanbul Technical University</p> <p>Sustainable Design "Investigating Circular Economy Through Digital Circularity Model" Nesrin Çelebi, İstanbul Technical University</p>	<p>Chair: Assoc. Prof. Dr. Merve Tomaş</p> <p>FOOD ENGINEERING Food Biotechnology "Production of Protein Composites from Single Protein by Enzyme Assisted Extraction" Ayşe Nur, İstanbul Technical University</p> <p>Functional Foods "Comparative and Technological Properties of Aquatic From Liquid Lipids" Ayşe Nur, İstanbul Technical University</p> <p>"Plant Based Protein in Infant Soaps: Comparison of Surface, Functional and Bioactive Properties" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Assoc. Prof. Dr. Salih Başçı Öztürk</p> <p>ELECTRIC POWER & ENERGY SYSTEMS "Techno-Economic Investigation of Nuclear Energy Towards Achieving Net-Zero Emissions" Ayşe Nur, İstanbul Technical University</p> <p>Power Electronics "A Real Time Response Detection and Mitigation Method for Short Arches Power Filter" Ayşe Nur, İstanbul Technical University</p> <p>Electrical Machines "Investigation of the Effect of Space Vector PWM Technique on Zero Sequence Voltage Formation in Open-End Windings" Ayşe Nur, İstanbul Technical University</p> <p>"Determination of Absolute Dependent Insulation Breakdown of Strained DC Starter Generators" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Assoc. Prof. Dr. Enes Zengin</p> <p>STRUCTURAL ENGINEERING Seismic Performance "Seismic Performance Evaluation and Comparison of Different Structural Systems Using Nonlinear Time History Analysis" Ayşe Nur, İstanbul Technical University</p> <p>HYDRAULICS AND WATER RESOURCES ENGINEERING Hydrology "Spatio-Temporal Analysis of Long-Term Natural Energy Trends and Climate Impacts on Evapotranspiration" Ayşe Nur, İstanbul Technical University</p> <p>Geological Engineering Rock Mechanics "Detachment Induced by Thermal Cycling at Grain Boundaries of Fine Grained Marble" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Prof. Dr. Volkan Sezer</p> <p>MECHANICAL ENGINEERING Robotics "Comparison Of MPC Based Motion Control Algorithms On Multi-Joint Robot Platform" Ayşe Nur, İstanbul Technical University</p> <p>"Electrification of Heavy Commercial Truck: Vehicle Dynamic Modeling, Energy Efficiency Analysis, and Economic Comparison with Conventional Diesel Engine" Ayşe Nur, İstanbul Technical University</p> <p>HEAT FLUID "A Study on the Performance of GDL, PCL, and PCL as a GDL-Based Transport Framework" Ayşe Nur, İstanbul Technical University</p> <p>"Investigation and Optimization of the Effect of Different Model Modifications on Gas Mass and Strength in the Double with Single Stage Turbine" Ayşe Nur, İstanbul Technical University</p> <p>"Generation of Proprietary Conditions with Hydrodynamic Stability Analysis: A Case Study For An Axially-Flowing Pipe Flow" Ayşe Nur, İstanbul Technical University</p> <p>"Multi-Objective Aerodynamic Shape Optimization of Helicopter Rotor" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Assoc. Prof. Dr. Alaadin Burak İrez</p> <p>MECHANICAL ENGINEERING Automotive "Development of a Novel Fuel System for Internal Combustion Engines" Ayşe Nur, İstanbul Technical University</p> <p>"Optimization of the Fuel System for Internal Combustion Engines" Ayşe Nur, İstanbul Technical University</p>
18:00 - 19:00		<p>Chair: Assoc. Prof. Dr. Orkan Zeynel Güzelci</p> <p>INTERNATIONAL MASTER OF INTERIOR ARCHITECTURAL DESIGN Interior Architecture "The Role of Virtual Reality in Interior Design: A Digital Publication Approach" Ayşe Nur, İstanbul Technical University</p> <p>Technology in Interior Design "A Strategy for Outdoor Preparation in A Market Trading: The Case of Istanbul" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Prof. Dr. Nese Şahin Yeşilçubuk, Asst. Prof. Dr. Çiğdem Yılmaz Çolak</p> <p>FOOD ENGINEERING Sustainable Foods "Development and Characterization of Biodegradable Films Enriched with Protein Extracted from Agro-Industrial Pea Waste and Soy-Products" Ayşe Nur, İstanbul Technical University</p> <p>"Effects of Amino-Range Based Treatment on the Microbiological Quality of Strawberry Post-Harvest Storage" Ayşe Nur, İstanbul Technical University</p> <p>MOLECULAR BIOLOGY - GENETICS AND BIOTECHNOLOGY Metagenomics and Protein Engineering "The Effect of Temperature on the Stability of Protein Structure: A Case Study of Lysozyme" Ayşe Nur, İstanbul Technical University</p> <p>"Characterization of Protein Structure and Function: A Case Study of Lysozyme" Ayşe Nur, İstanbul Technical University</p>				

14 MAY 2025, WEDNESDAY
ONLINE
SESSION - VI

SESSION - VI							
TIME	MAIN HALL	HALL - I	HALL - II	HALL - III	HALL - IV	HALL - V	HALL - VI
09:00 - 10:00	<p>Chair: Prof. Dr. Bihter Erol</p> <p>GEOMATICS ENGINEERING Geographic Information Systems "Estimating Vertical Curve Control Parameters in the Amazon Rain Region Using AIS and GIS Data" Ayşe Nur, İstanbul Technical University</p> <p>"Spatial Vulnerability Analysis of the Cities Affected by the February 6 Turkey Earthquake" Ayşe Nur, İstanbul Technical University</p> <p>"Transformation of Solid Waste Management in Bursa: A GIS-Based MCDM Approach to Landfill Site Selection Beyond Evaluation" Ayşe Nur, İstanbul Technical University</p> <p>"Spatial Problems and Effective Factors in Hospital Location Selection" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Asst. Prof. Dr. Bihter Erol</p> <p>COMPUTER SCIENCE Data Science "A Data Driven Approach to Process Discovery: Event-Driven Machine Learning with Process Mining" Ayşe Nur, İstanbul Technical University</p> <p>"EET Image Detection Using Deep Learning: A Case Study of COVID-19" Ayşe Nur, İstanbul Technical University</p> <p>"Resilient Reconstruction Applications For Aerial Image Restoration" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Asst. Prof. Dr. Recep Kaya</p> <p>ECOLOGY AND EVOLUTION Anthropocene "Exploring the Anthropocene Phenomenon of Climate Change: Climate Conditions" Ayşe Nur, İstanbul Technical University</p> <p>"Unraveling the Complexity of Turkey's Biodiversity Politics" Ayşe Nur, İstanbul Technical University</p> <p>Paleo-Biology "The Geoarchaeology of the Ankara Basin: Insights into the Lives of QST and Geoarchaeological Data" Ayşe Nur, İstanbul Technical University</p> <p>"Exploring the Evolution of Socio-Ecological Systems Through Agent-Based Modeling: Insights from North Central Anatolia During the Early Bronze Age" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Assoc. Prof. Dr. Bülent Arıkan</p> <p>GEOMATICS ENGINEERING Geographic Information Systems "Spatial Analysis and Optimization of E-Governance Capacity's Factors: A Case of Istanbul, Istanbul" Ayşe Nur, İstanbul Technical University</p> <p>Remote Sensing "Evaluating the Temporal Consistency of SAR and Optical Imagery for Urban Monitoring Using Sentinel-1 and Sentinel-2" Ayşe Nur, İstanbul Technical University</p> <p>GEOGRAPHIC INFORMATION TECHNOLOGIES Artificial Intelligence and Machine Learning in Remote Sensing Analysis "Current Challenges in the Management and Control of Urban Sprawl Using Geographic Information Technologies (GIS)" Ayşe Nur, İstanbul Technical University</p> <p>Remote Sensing Applications in Natural Disaster and Natural Resource Management "Spatiotemporal Change Analysis and Future Projections of Wetlands in Central Anatolia, Turkey" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Assoc. Prof. Dr. Eilif Küçükşayracı</p> <p>INDUSTRIAL DESIGN Historical, Cultural and Social Context of Design "Decoding Text Attachment Between Design Process and Its Users: Understanding by using Metaphors" Ayşe Nur, İstanbul Technical University</p> <p>"Optimizing User Experience: An In-Depth Understanding of the Interaction of Design, Media, and Community" Ayşe Nur, İstanbul Technical University</p> <p>Product Design "Testing the Aesthetic Responses to Smart Household Appliances in the Context of Incremental Innovation" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Assoc. Prof. Dr. Derya Güleç Özer</p> <p>GAME AND INTERACTION TECHNOLOGIES Game Design "Understanding Player Behavior: The Role of Emotion and Aesthetics in Game Player Types" Ayşe Nur, İstanbul Technical University</p> <p>"Optimizing User Experience: An In-Depth Understanding of the Interaction of Design, Media, and Community" Ayşe Nur, İstanbul Technical University</p> <p>"Responsible Spaces in Games: Using Accessibility Principles to Enhance Inclusivity of New Game Mechanics" Ayşe Nur, İstanbul Technical University</p> <p>"A Systematic Approach to Adaptive Learning Methods for Improving Learning Outcomes and Retention" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Assoc. Prof. Dr. Mehmet Emin Şalgamcıoğlu</p> <p>URBAN DESIGN Design and Evaluation of Public Spaces "The Transformation of Urban Spaces: A Case Study of Istanbul" Ayşe Nur, İstanbul Technical University</p> <p>"Effects Of Building And Street Intervention On Behavior: An Experiment Through Proxy In Kocaeli" Ayşe Nur, İstanbul Technical University</p> <p>"The Impact of Urban Design on Quality of Life: A Case Study of Istanbul" Ayşe Nur, İstanbul Technical University</p>
10:00 - 11:00	<p>Chair: Prof. Dr. Bihter Erol</p> <p>GEOMATICS ENGINEERING Remote Sensing "Aerial Photogrammetry and Deep Learning Networks on Remote Sensing Images" Ayşe Nur, İstanbul Technical University</p> <p>"Investigation of Anthropogenic Effects on Protected Wetlands Using Remote Sensing and Geographic Information Systems: A Case Study of Mersin Bay Wetlands and Bird Reserves" Ayşe Nur, İstanbul Technical University</p> <p>"Enhancing Sentinel-1 SAR Data Accuracy: The Impact of SAR Interferometry Performance" Ayşe Nur, İstanbul Technical University</p> <p>"Urban Heat Island Effect: A Case Study of Istanbul" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Dr. Meriç Yücel</p> <p>COMPUTER ENGINEERING Artificial Intelligence "Multi-Task ECG Classification Using a Mixture of Experts Transformer Model" Ayşe Nur, İstanbul Technical University</p> <p>"The Role of Artificial Intelligence in Enhancing Software Quality: A Multidisciplinary Review" Ayşe Nur, İstanbul Technical University</p> <p>"An Intelligent, Adaptive, and Self-Organizing Reinforcement Learning Approach" Ayşe Nur, İstanbul Technical University</p> <p>Computer Networks "Analyzing Network Security: A Case Study of Istanbul" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Asst. Prof. Dr. Ebru Acuner Türet</p> <p>SUSTAINABILITY Climate Change Mitigation "Assessing Decarbonization Strategies and Decoupling Trends of Turkey's Private Sector Companies" Ayşe Nur, İstanbul Technical University</p> <p>"The Relationship Between Sustainable Finance and the Carbon Border Adjustment Mechanism (CBAM): A Policy Impact Assessment and Hypothesis Case Study" Ayşe Nur, İstanbul Technical University</p> <p>Smart and Sustainable Cities "Investigation of Green Building Trends and Smart Cities in Turkey: A Case Study of Istanbul" Ayşe Nur, İstanbul Technical University</p> <p>"An Inclusive Digital Accessibility Policy for Individuals with Disabilities" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Prof. Dr. Himmet Karaman</p> <p>INDUSTRIAL DESIGN Spatial Data Algorithms and Visualization and 3D GIS Technologies "Tactical Map Production Processes and Application Areas for 'Visual Imprints'" Ayşe Nur, İstanbul Technical University</p> <p>"Weging Urban Heat Island Effect Through Remote Sensing: The Case of Istanbul" Ayşe Nur, İstanbul Technical University</p> <p>"City Model Production with Lidar Technology and Integration of Urban Transformation with GIS: The Example of Zeytinliköy District" Ayşe Nur, İstanbul Technical University</p> <p>"Analysis of Customer Complaints in Mobile Communication Networks with GIS" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Assoc. Prof. Dr. Koray Gelmez</p> <p>INDUSTRIAL DESIGN Theory and Methodology in Industrial Design "Understanding Creativity: A Theory-Based Investigation into the Psychology of Designers' Creativity during the Ideation Phase" Ayşe Nur, İstanbul Technical University</p> <p>"User Experience in Automotive: Exploring New Possibilities" Ayşe Nur, İstanbul Technical University</p> <p>"Exploring Innovation in Design Research: An In-Depth Understanding of the Interaction of Design, Media, and Community" Ayşe Nur, İstanbul Technical University</p> <p>"Unraveling the Impact of Design Research: An In-Depth Understanding of the Interaction of Design, Media, and Community" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Assoc. Prof. Dr. Derya Güleç Özer</p> <p>GAME AND INTERACTION TECHNOLOGIES User Studies "An Analysis of Learning Behavior Through Brain's Eye World & Human Psychology" Ayşe Nur, İstanbul Technical University</p> <p>"VR for Game Development: A Framework for Immersive and Adaptive Audio Design" Ayşe Nur, İstanbul Technical University</p> <p>AI in Gaming "Preliminary Study on the Feasibility of Neural Network-Based Generative AI Models in Video Game Music Production" Ayşe Nur, İstanbul Technical University</p> <p>"A Comparative Study for Analyzing LLM Performance in Multi-Modal Content Generation" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Assoc. Prof. Dr. Mehmet Emin Şalgamcıoğlu</p> <p>URBAN DESIGN Urban Conservation "A Study of Meaning in Urban: Ancient Cities as Open-Air Museum" Ayşe Nur, İstanbul Technical University</p> <p>Urban Resilience "Shaping Resilient Cities: A Case Study of Istanbul" Ayşe Nur, İstanbul Technical University</p>
11:00 - 12:00	<p>Chair: Prof. Dr. Bihter Erol</p> <p>GEOMATICS ENGINEERING Natural Hazards "Seismic Hazard Assessment of Suburban Areas: A Case Study of Istanbul" Ayşe Nur, İstanbul Technical University</p> <p>"Food Risk Analysis with Geospatial Artificial Intelligence Techniques" Ayşe Nur, İstanbul Technical University</p> <p>"On the Role of Earth Observation and Remote Sensing in Environmental and Climate Change" Ayşe Nur, İstanbul Technical University</p> <p>Phytogeography "Determining a High Definition Map (HD Map) via VLSI On-Chip Logic Using Deep Learning-Based Object Detection Model" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Assoc. Prof. Dr. Şerif Bahtiyar</p> <p>COMPUTER ENGINEERING Cyber Security "Reputation Based Decision Making Consensus Mechanism for UAV Swarms with Ethereum Blockchain" Ayşe Nur, İstanbul Technical University</p> <p>"Enhancing IoT Based Detection: A Streamlined Approach to Feature Selection" Ayşe Nur, İstanbul Technical University</p> <p>"Neuro-inspired Computing and Memristor-Based Network Attack Detection Systems: New Approaches in Cybersecurity" Ayşe Nur, İstanbul Technical University</p> <p>Embedded Systems "Comparison of the Effects of Different Compiler Environments on Communication Signal Detection Between" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Asst. Prof. Dr. Ebru Acuner Türet</p> <p>SUSTAINABILITY Life Cycle Assessment "The Intersection of Sustainability and Decoupling Trends of Turkey's Private Sector Companies" Ayşe Nur, İstanbul Technical University</p> <p>Sustainable Development Goals "Enhancing Efficiency of AI-Based Monitoring via Quantum Optimization: A Case Study of Istanbul" Ayşe Nur, İstanbul Technical University</p> <p>Water and Waste Management "Evaluating the Water Footprint of Food Products: A Comparative Study of Food and Cotton in Turkey" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Assoc. Prof. Dr. Bülent Arıkan</p> <p>INDUSTRIAL DESIGN Theory and Methodology in Industrial Design "Understanding Creativity: A Theory-Based Investigation into the Psychology of Designers' Creativity during the Ideation Phase" Ayşe Nur, İstanbul Technical University</p> <p>"User Experience in Automotive: Exploring New Possibilities" Ayşe Nur, İstanbul Technical University</p> <p>"Exploring Innovation in Design Research: An In-Depth Understanding of the Interaction of Design, Media, and Community" Ayşe Nur, İstanbul Technical University</p> <p>"Unraveling the Impact of Design Research: An In-Depth Understanding of the Interaction of Design, Media, and Community" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Assoc. Prof. Dr. Derya Güleç Özer</p> <p>GAME AND INTERACTION TECHNOLOGIES User Studies "An Analysis of Learning Behavior Through Brain's Eye World & Human Psychology" Ayşe Nur, İstanbul Technical University</p> <p>"VR for Game Development: A Framework for Immersive and Adaptive Audio Design" Ayşe Nur, İstanbul Technical University</p> <p>AI in Gaming "Preliminary Study on the Feasibility of Neural Network-Based Generative AI Models in Video Game Music Production" Ayşe Nur, İstanbul Technical University</p> <p>"A Comparative Study for Analyzing LLM Performance in Multi-Modal Content Generation" Ayşe Nur, İstanbul Technical University</p>	<p>Chair: Assoc. Prof. Dr. Alihan Erkmen</p> <p>ART HISTORY Art History "The Evolution of Art: A Case Study of Istanbul" Ayşe Nur, İstanbul Technical University</p> <p>"The Role of Digital Technologies in Modern Art: A Case Study of Istanbul" Ayşe Nur, İstanbul Technical University</p>	

* THE PRESENTATION DURATION IS DEFINED AS 15 MINUTES, INCLUDING Q-A (ONLY FOR ORAL PRESENTATION)

14 MAY 2025, WEDNESDAY
IN PERSON, ITU Süleyman Demirel Arts and Conference Center, Ayazağa Campus

TIME	GROUND FLOOR and FIRST FLOOR IN PERSON	TIME	CONFERENCE HALL IN PERSON	TIME	WORKSHOP HALL IN PERSON
09:00 - 12:45	<p>POSTER SESSION</p>	10:00 - 11:30	<p>"3 MINUTE THESIS" Competition</p>	10:00 - 11:00	<p>Chair: Prof. Dr. Aydan Turanlı</p> <p>SCIENCE, TECHNOLOGY AND SOCIETY (STS) Communication of Science and Technology "A Bibliometric Analysis of Women's Technology in Healthcare Services" Ayşe Nur, İstanbul Technical University</p> <p>"The Impact of Rural Practices on Rural Production and Trade Policies in Turkey: The Case of Turkey" Ayşe Nur, İstanbul Technical University</p> <p>Social and Ethical Dimensions of AI "Unethical Consequences of Generative AI: A Case Study of AI-Generated Content" Ayşe Nur, İstanbul Technical University</p>
12:45-13:00				11:15 - 12:00	<p>KEYNOTE SPEAKER STS - Talk "Democratic Science And Participation in the Digital Era: Insights from Citizen Science Projects in the Environmental And Marine Sciences" Asst. Prof. Alessandra Genzi, Aalborg University - Denmark * The distinguished speaker is hosted within the scope of ERASMUS+ programme.</p>

CLOSING REMARKS

Prof. Dr. Fatma Seniha GÜNER , Institute Director, Istanbul Technical University

CONCERT AND PERFORMANCE PROGRAMME, CONFERENCE HALL
Istanbul Technical University, Turkish Music State Conservatory