

**IGRS 2026 | Day 1, Monday, 11 May 2026 (09:30 to 17:15)**

Time	Main Hall						
09:30-09:40	OPENING REMARKS						
09:40-10:00	WELCOME ADDRESS   Prof. Dr. F. Seniha Güner, Director of Graduate School						
10:00-10:30	RECTORAL ADDRESS   Prof. Dr. Hasan Mandal, Rector of ITU						
10:30-10:50	SPONSOR PRESENTATION						
10:50-11:00	Transition: Main Hall to Halls 1-6						
Time	Main Hall	Hall 1	Hall 2	Hall 3	Hall 4	Hall 5	Hall 6
11:00-12:00	T1-S01 Aerospace and Aeronautical Sciences (1/6)	T2-S01 Chemical and Process Engineering (1/4)	T3-S01 Electrical Engineering and Power Systems (1/4)	T4-S01 Civil and Structural Engineering (1/3)	T5-S01 Sustainability and Climate Action (1/4)	T6-S01 Architectural Design Computing (1/4)	T7-S01 Business Administration and Industrial Engineering (1/6)
12:00-13:00	KEYNOTE 1   Prof. Dr. Berk Canberk (50 min talk + 10 min Q&A, Main Hall)						
13:00-14:00	LUNCH BREAK						
14:00-15:00	T1-S02 Aerospace and Aeronautical Sciences (2/6)	T2-S02 Chemical and Process Engineering (2/4)	T3-S02 Electrical Engineering and Power Systems (2/4)	T4-S02 Civil and Structural Engineering (2/3)	T5-S02 Sustainability and Climate Action (2/4)	T6-S02 Architectural Design Computing (2/4)	T7-S02 Business Administration and Industrial Engineering (2/6)
15:00-16:00	T1-S03 Aerospace and Aeronautical Sciences (3/6)	T2-S03 Chemical and Process Engineering (3/4)	T3-S03 Electrical Engineering and Power Systems (3/4)	T4-S03 Civil and Structural Engineering (3/3)	T5-S03 Sustainability and Climate Action (3/4)	T6-S03 Architectural Design Computing (3/4)	T7-S03 Business Administration and Industrial Engineering (3/6)
16:00-16:15	COFFEE BREAK						
16:15-17:15	T1-S04 Aerospace and Aeronautical Sciences (4/6)	T2-S04 Chemical and Process Engineering (4/4)	T3-S04 Electrical Engineering and Power Systems (4/4)	T4-S04 Earthquake Engineering and Geotechnics (1/3)	T5-S04 Sustainability and Climate Action (4/4)	T6-S04 Architectural Design Computing (4/4)	T7-S04 Business Administration and Industrial Engineering (4/6)

**IGRS 2026 | Day 2, Tuesday, 12 May 2026 (09:00 to 17:15)**

Time	Main Hall	Hall 1	Hall 2	Hall 3	Hall 4	Hall 5	Hall 6
09:00-10:00	T1-S05 Aerospace and Aeronautical Sciences (5/6)	T2-S05 Materials Science and Engineering (1/5)	T3-S05 Electronics and Communication (1/2)	T4-S05 Earthquake Engineering and Geotechnics (2/3)	T5-S05 Environmental Engineering and Biotechnology (1/2)	T6-S05 Architectural Design and Theory (1/2)	T7-S05 Business Administration and Industrial Engineering (5/6)
10:00-10:45	INVITED SPEAKER   Assoc. Prof. Dr. Nil Özbek (40 min talk + 5 min Q&A, Main Hall)						
10:45-11:00	COFFEE BREAK						
11:00-12:00	T1-S06 Aerospace and Aeronautical Sciences (6/6)	T2-S06 Materials Science and Engineering (2/5)	T3-S06 Electronics and Communication (2/2)	T4-S06 Earthquake Engineering and Geotechnics (3/3)	T5-S06 Environmental Engineering and Biotechnology (2/2)	T6-S06 Architectural Design and Theory (2/2)	T7-S06 Business Administration and Industrial Engineering (6/6)
12:00-13:00	T1-S07 Mechanical Engineering and Design (1/5)	T2-S07 Materials Science and Engineering (3/5)	T3-S07 Computer Sciences and Engineering (1/3)	T4-S07 Project and Construction Management (1/3)	T5-S07 Energy Science and Technology (1/2)	T6-S07 Restoration, Heritage and Interior Architecture (1/3)	T7-S07 Industrial Design (1/3)
13:00-14:00	LUNCH BREAK						
14:00-15:00	T1-S08 Mechanical Engineering and Design (2/5)	T2-S08 Materials Science and Engineering (4/5)	T3-S08 Computer Sciences and Engineering (2/3)	T4-S08 Project and Construction Management (2/3)	T5-S08 Energy Science and Technology (2/2)	T6-S08 Restoration, Heritage and Interior Architecture (2/3)	T7-S08 Industrial Design (2/3)
15:00-16:00	T1-S09 Mechanical Engineering and Design (3/5)	T2-S09 Materials Science and Engineering (5/5)	T3-S09 Computer Sciences and Engineering (3/3)	T4-S09 Project and Construction Management (3/3)	T5-S09 Atmospheric and Earth System Sciences (1/2)	T6-S09 Restoration, Heritage and Interior Architecture (3/3)	T7-S09 Industrial Design (3/3)
16:00-16:15	COFFEE BREAK						
16:15-17:15	T1-S10 Mechanical Engineering and Design (4/5)	T2-S10 Mining, Petroleum and Nuclear (1/2)	T3-S10 Mathematical and Physics Engineering (1/2)	T4-S10 Transportation, Railway and Maritime Logistics (1/1)	T5-S10 Atmospheric and Earth System Sciences (2/2)	T6-S10 Urban Design and Regional Planning (1/3)	T7-S10 Maritime and Shipbuilding (1/3)

**IGRS 2026 | Day 3, Wednesday, 13 May 2026 (09:00 to 14:30)**

Time	Hall 1	Hall 2	Hall 3	Hall 4	Hall 5	Hall 6
09:00-10:00	T2-S11 Mining, Petroleum and Nuclear (2/2)	T3-S11 Mathematical and Physics Engineering (2/2)	T8-S01 Applied Mechanics and Acoustics (1/4)	T5-S11 Geomatics and Geographical Information Technologies (1/3)	T6-S11 Urban Design and Regional Planning (2/3)	T7-S11 Maritime and Shipbuilding (2/3)
10:00-10:45	INVITED SPEAKER   Assoc. Prof. Dr. Ömer Ekmekcioğlu (40 min talk + 5 min Q&A, Main Hall)					
10:45-11:00	COFFEE BREAK					
11:00-12:00	T1-S11 Mechanical Engineering and Design (5/5)	T3-S12 Control and Systems Dynamics (1/2)	T8-S03 Sustainability and Built Environment (2/4)	T5-S12 Geomatics and Geographical Information Technologies (2/3)	T6-S12 Urban Design and Regional Planning (3/3)	T7-S12 Maritime and Shipbuilding (3/3)
12:00-13:00	T7-S17 Humanities, Social Sciences and Arts (4/4)	T3-S13 Control and Systems Dynamics (2/2)	T8-S04 Theoretical Sciences and Performance Arts (3/4)	T5-S13 Geomatics and Geographical Information Technologies (3/3)	T6-S13 Landscape, Real Estate and Building Technologies (1/1)	T7-S13 Humanities, Social Sciences and Arts (1/4)
13:00-14:00	T7-S18 Music and Sonic Arts (1/1)	—	T8-S02 Political Philosophy and Social Sciences (4/4)	T5-S14 Molecular Biology, Genetics and Food Science (1/1)	T7-S15 Humanities, Social Sciences and Arts (3/4)	T7-S14 Humanities, Social Sciences and Arts (2/4)
14:00-14:30	CLOSING CEREMONY (30 minutes, Main Hall)					

## Track T1 | Aerospace, Mechanical and Manufacturing — Online

### T1-S01 Aerospace and Aeronautical Sciences (1/6) [Main Hall | Monday 11 May 2026 | 11:00-12:00]

Chair: Assoc. Prof. Dr. Özge Özdemir Co-Chair: Dr. Ayca Kizilkaya

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	1971	1	Optical Navigation and Direction-Based Attitude Estimation for Cislunar Spacecraft Using Camera Measurements	Mustafa Yılmaz	Istanbul Technical University
11:15-11:30	2079	2	Flow at a Wing-Body Junction Under a Discrete Vortex Gust	Orhan Hizalan	Istanbul Technical University
11:30-11:45	2480	3	Computational and Experimental Performance Analysis of a Floating Ring Seal Under High-Speed Conditions	Muhammed Kerem Sarı	Istanbul Technical University
11:45-12:00	2557	4	Hybrid Machine Learning Surrogate Model for Rotorcraft Performance Prediction and Optimization	Halil İbrahim Başpınar	Istanbul Technical University

### T1-S02 Aerospace and Aeronautical Sciences (2/6) [Main Hall | Monday 11 May 2026 | 14:00-15:00]

Chair: Assoc. Prof. Dr. Baha Zafer Co-Chair: Dr. Ayca Kizilkaya

Time	Abs No	Order	Paper Title	Presenter	Institution
14:00-14:15	3162	1	Multibody Dynamics Analysis of Helicopter Ground Resonance and Determination of Optimum Rotor Damper Parameters	Fatih ÇAKIR	Istanbul Technical University
14:15-14:30	3555	2	Numerical Study on the Performance of Biplane Plunging Airfoils	Eren Baver Kaya	Istanbul Technical University
14:30-14:45	3605	3	Performance Comparison of Regression Based Machine Learning Models for Aerodynamic Prediction on PALMO Dataset	Hakan Mavi	Eskişehir Osmangazi University
14:45-15:00	3795	4	Investigation of the Effect of Hinge Rigidity on the Aeroelastic Characteristics of Folding Aircraft Wings	Gorkem Dere	Istanbul Technical University

### T1-S03 Aerospace and Aeronautical Sciences (3/6) [Main Hall | Monday 11 May 2026 | 15:00-16:00]

Chair: Assis. Prof. Dr. Ali Tatar Co-Chair: Dr. Ayca Kizilkaya

Time	Abs No	Order	Paper Title	Presenter	Institution
15:00-15:15	4401	1	Tip Region Enhancement of a Pumpjet Propulsor with Circumferential Casing Grooves for Cavitation Reduction	Sefa Gönül	Istanbul Technical University
15:15-15:30	5805	2	Space-Based Orbit and Attitude Estimation of Resident Space Objects Using Star Tracker	Ceylan Şevval İnan	Istanbul Technical University
15:30-15:45	6053	3	Horizontal Tail Design and Optimization for a Trainer Aircraft	Selen Kırıcı	Istanbul Technical University
15:45-16:00	6098	4	Attitude Control and Relative Dynamics Analysis of a Dual-Purpose Technology Demonstration Mission: Formation-Flying Interferometry and Earth Observation in Sun-Synchronous Orbit (SSO)	Mustafa Ahmed Yeşilova	Istanbul Technical University

### T1-S04 Aerospace and Aeronautical Sciences (4/6) [Main Hall | Monday 11 May 2026 | 16:15-17:15]

Chair: Assis. Prof. Dr. Duygu Erdem Co-Chair: Dr. Ayca Kizilkaya

Time	Abs No	Order	Paper Title	Presenter	Institution
16:15-16:30	6499	1	Effect of Geometric Defects on Pressure Swirl Injectors	Ege Tugan	ROKETSAN
16:30-16:45	6737	2	On-Design Cycle Analysis of the EJ200 Turbofan Engine Using Multiple Gas Turbine Simulation Tools	Zehra Sena Senturk	Istanbul Technical University
16:45-17:00	7057	3	Experimental-Numerical Validation of Buckling Behaviour in Thin-Walled Cylindrical Shells for Response Surface Based Structural Optimization	Fırat Kaplan	Istanbul Technical University
17:00-17:15	7237	4	Large Eddy Simulation of Hydrogen Combustion in the HYLON-2 Dual-Swirl Combustor	Mustafa Şengül	Istanbul Technical University

### T1-S05 Aerospace and Aeronautical Sciences (5/6) [Main Hall | Tuesday 12 May 2026 | 09:00-10:00]

Chair: Assis. Prof. Dr. Oğuzcan İnal Co-Chair: Dr. Ayca Kizilkaya

Time	Abs No	Order	Paper Title	Presenter	Institution
09:00-09:15	7259	1	Guidance Law Design for Missiles Performing Evasive Maneuvers in the Terminal Phase	Hakan Süleyman Eze	Istanbul Technical University
09:15-09:30	8204	2	Online Moment of Inertia Estimation Based on Recursive Least Squares Algorithm	Evra Başaran	Istanbul Technical University
09:30-09:45	8257	3	Development of a High-Order Compact Finite-Difference Solver for Incompressible Flow	Elif Mihriban Zeyveli	Istanbul Technical University
09:45-10:00	8548	4	Magnetic Navigation for Aircraft	Samet Kaplan	Istanbul Technical University

### T1-S06 Aerospace and Aeronautical Sciences (6/6) [Main Hall | Tuesday 12 May 2026 | 11:00-12:00]

Chair: Dr. Tahir Soyugüzel Co-Chair: Dr. Ayca Kizilkaya

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	8773	1	Numerical Simulation of In Tube HFE 7000 Condensation in Microgravity Using OpenFOAM and Validation Against Published Parabolic Flight Measurements	Emil Aliyev	Istanbul Technical University
11:15-11:30	9011	2	Aerodynamic Performance of Bio-Inspired Corrugated Airfoils: Effects of Surface Smoothing and Geometric Parameters	Ahamed Waseem Areekadan	Istanbul Technical University
11:30-11:45	1412	3	Non-Reflecting Mixing Plane Implementation and Validation on Openfoam	Kuzey Can Derman	Istanbul Technical University

## Track T1 | Aerospace, Mechanical and Manufacturing — Online

11:45-12:00	1595	4	The Effects of Design Parameters of Escapement Mechanisms on Arming Delay in Medium Caliber Munitions	Cem Kılıç	Istanbul Technical University
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### T1-S07 Mechanical Engineering and Design (1/5) [Main Hall | Tuesday 12 May 2026 | 12:00-13:00]

Chair: Prof. Dr. Volkan Sezer Co-Chair: Dr. Ayca Kizilkaya

Time	Abs No	Order	Paper Title	Presenter	Institution
12:00-12:15	1656	1	Optimizing Camera Sensor Placement for Robust Object Detection Under High-Dynamic Maneuvers in a Military Vehicle	Ömer Yunus Dikmen	Istanbul Technical University
12:15-12:30	1747	2	Mechanical Behavior of Carbon Fiber Reinforced Nylon 6 Lattice Structures in Additive Manufacturing	Abdullah Mustafa Kiran	Yalova University
12:30-12:45	3698	3	Geometric Performance Analysis of a Compact Gas-Gas Ejector Using One-Dimensional Analytical Modeling and CFD Validation	Gürkan Avcı	Istanbul Technical University
12:45-13:00	4270	4	Parametric Investigation of Dome Geometry and Depth Ratio for Launch Vehicle Propellant Tanks	Ahmet Yazıcı	Istanbul Technical University

### T1-S08 Mechanical Engineering and Design (2/5) [Main Hall | Tuesday 12 May 2026 | 14:00-15:00]

Chair: Prof. Dr. Erdiç Altuğ Co-Chair: Dr. Ayca Kizilkaya

Time	Abs No	Order	Paper Title	Presenter	Institution
14:00-14:15	4460	1	Design of an Electro-Mechanical Sports Device Providing Resistance to Linear Motion	Sinan Aleksander Özüak	Istanbul Technical University
14:15-14:30	4531	2	Investigation of Defect-Mediated Deformation in {HCP} Titanium Using Molecular Dynamics Simulations	Emel Kula Topak	Istanbul Technical University
14:30-14:45	4638	3	Natural Frequency Topology Optimization using Gradient Based Methods	Kerem Utku Demir	Istanbul Technical University
14:45-15:00	5090	4	Adaptive Predictive Fuzzy PID Controller based on Runge-Kutta Model for Nonlinear Dynamical Systems	Ismail Koray Gundogan	Istanbul Technical University

### T1-S09 Mechanical Engineering and Design (3/5) [Main Hall | Tuesday 12 May 2026 | 15:00-16:00]

Chair: Prof. Dr. Erdiç Altuğ Co-Chair: Dr. Ayca Kizilkaya

Time	Abs No	Order	Paper Title	Presenter	Institution
15:00-15:15	5601	1	State of Health Estimation Based on Post-Charge Relaxation Dynamics and Two-Time-Constant Equivalent Circuit Parameters	Ebubekir Buğra Özarslan	Istanbul Technical University
15:15-15:30	5656	2	Enhanced State Estimation and Sensor Fusion Techniques for Ground Vehicle Localization and Navigation	Abdurrahman ElAdavy	Istanbul Technical University
15:30-15:45	5859	3	Numerical Investigation of Mechanical Performance and Elastic Energy Storage Capacity in Tetrachiral Auxetic Lattice Structure	Muhammed Raşit Karakoca	Istanbul Technical University
15:45-16:00	6651	4	Finite Element Analysis of Stress Distribution and Critical Fracture Regions in Chain Links with Different Material Properties	Abdülmelik Sancak	Istanbul Technical University

### T1-S10 Mechanical Engineering and Design (4/5) [Main Hall | Tuesday 12 May 2026 | 16:15-17:15]

Chair: Assis. Prof. Dr. Samet Çeri Co-Chair: Dr. Ayca Kizilkaya

Time	Abs No	Order	Paper Title	Presenter	Institution
16:15-16:30	6820	1	Aerodynamic and Structural Optimization of an Aircraft Wing Using Response Surface Methodology	Abdullah Demircan	Istanbul Technical University
16:30-16:45	7035	2	Analysis of Sea Spray Contamination on Helicopter During Low-Altitude Maritime Hover Operations	Ufuk Şahin	Istanbul Technical University
16:45-17:00	7921	3	Comparative Analysis of Load-Dependent Heat Losses in a Gasoline- and Hydrogen-Fueled Single-Cylinder Engine	Ramazan Aydın	Istanbul Technical University
17:00-17:15	7964	4	A Hybrid H-Infinity Filter and Neuro-Fuzzy Inference Framework for State of Charge Estimation in Lithium-Ion Batteries	Ebubekir Buğra Özarslan	Istanbul Technical University

### T1-S11 Mechanical Engineering and Design (5/5) [Hall 1 | Wednesday 13 May 2026 | 11:00-12:00]

Chair: Prof. Dr. Teoman Özer Co-Chair: Dr. Ayca Kizilkaya

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	8724	1	Investigation of Magnetic Surface Abrasion Using a Soft Robot	İclal Tetik	Balıkesir University
11:15-11:30	9491	2	Cylinder Pressure Peak and IMEP Estimation Using RMS Analysis of Crankshaft Speed Fluctuations	Yunus Emre Erginsoy	Istanbul Technical University
11:30-11:45	9522	3	Re-Design and Structural Optimization of the NLG Door of a Civil Aircraft	Faruk Yardımcıoğlu	Istanbul Technical University
11:45-12:00	9859	4	CFD Validation of an Open-Source Density-Based Solver for NASA Rotor 67 Transonic Compressor	Şeyda Nur İşleyen	Istanbul Technical University

## Track T2 | Materials, Chemistry and Process Engineering — Online

### T2-S01 Chemical and Process Engineering (1/4) [Hall 1 | Monday 11 May 2026 | 11:00-12:00]

Chair: Prof. Dr. Abdullah Aydoğan Co-Chair: Res. Asst. Asude Bolat

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	1050	1	A Versatile NH <sub>2</sub> -MWCNTs Modified MIP Based Electrochemical Sensor for AZA Detection in Biological, Pharmaceutical, and Environmental Matrices	Zeynep Aydemir	Istanbul Technical University
11:15-11:30	1456	2	Techno-Economic Analysis of Bio-Oil Reforming for Green Hydrogen Production: A Comparative Study of SR, SESR and OSR	Doruk Kirbay	Istanbul Technical University
11:30-11:45	3166	3	Synthesis of CuInSe/ZnS Quantum Dots and Investigation of Dye Adsorption Properties for Waste Treatment	Elif Çeltek	Istanbul Technical University
11:45-12:00	3328	4	Biogas Production from Primary Sludge in a Semi-Pilot-Scale Anaerobic Digester under Semi-Continuous Feeding Conditions	Ayman Alakash	Istanbul Technical University

### T2-S02 Chemical and Process Engineering (2/4) [Hall 1 | Monday 11 May 2026 | 14:00-15:00]

Chair: Prof. Dr. Devrim Barış Kaymak Co-Chair: Res. Asst. Asude Bolat

Time	Abs No	Order	Paper Title	Presenter	Institution
14:00-14:15	4510	1	Fabrication and Characterization of Cedar Extract-Loaded 3D-Printed Gelatin/Sodium Alginate Scaffold for Bone Tissue Engineering Application	Seba Alturkmani	Istanbul Technical University
14:15-14:30	4761	2	Catechol-functionalised supramolecular structures for remediation of micropollutants	Ekaterina Kozlova	Istanbul Technical University
14:30-14:45	4824	3	Ultrasound-Assisted Extraction of Phenolic Compounds from Cedar Bark Using Response Surface Methodology	Setenay Fırat	Istanbul Technical University
14:45-15:00	5573	4	Machine Learning-Enhanced Layer Of Protection Analysis: Random Forest-Based Prediction Of Independent Protection Layer Effectiveness For Process Safety	Sevgi Erişik	Istanbul Technical University

### T2-S03 Chemical and Process Engineering (3/4) [Hall 1 | Monday 11 May 2026 | 15:00-16:00]

Chair: Prof. Dr. Devrim Barış Kaymak Co-Chair: Res. Asst. Asude Bolat

Time	Abs No	Order	Paper Title	Presenter	Institution
15:00-15:15	5975	1	aza-BODIPY as Nitramin Sensor	Bleda Can Sadikogullari	Istanbul Technical University
15:15-15:30	5987	2	Laboratory-Scale Cultivation of Chlorella minutissima Microalgae Using Municipal Wastewater from Different Advanced Biological Wastewater Treatment Plants: A Comparative Study	Elif Bostanoğlu	Istanbul Technical University
15:30-15:45	6374	3	Design of a Reactive-Extractive Distillation Process for the Recovery of Ethyl Acetate and Methanol from Wastewater	Mehlika Nur Demir	Istanbul Technical University
15:45-16:00	6656	4	Development Of Polylactic Acid and Zeolite Based Mixed-Matrix Membranes For Active Packaging And Gas Barrier Applications	Deniz Arslan	Istanbul Technical University

### T2-S04 Chemical and Process Engineering (4/4) [Hall 1 | Monday 11 May 2026 | 16:15-17:15]

Chair: Assis. Prof. Dr. Ayşe Banu Kocaağa Co-Chair: Res. Asst. Asude Bolat

Time	Abs No	Order	Paper Title	Presenter	Institution
16:15-16:30	7387	1	Removal of Pharmaceutical Contaminants from Wastewater using Lanthanum-Modified BaTiO <sub>3</sub> Based Photocatalysts	Dilara Atasavun	Istanbul Technical University
16:30-16:45	8503	2	Parametric Optimization and Energy Analysis of MEA-Based CO <sub>2</sub> Capture Systems	Feyzullah Kesgin	Istanbul Technical University
16:45-17:00	8824	3	Water Treatment with Aerogel-Derived Carbon Materials from Waste Citrus Peels	Selin Serbest	Istanbul Technical University
17:00-17:15	9495	4	Sustainable Fabrication of a First Electropolymerized Molecularly Imprinted Sensor for Olaparib in Diverse Sample Matrices	Beril Sena Kaya	Istanbul Technical University

### T2-S05 Materials Science and Engineering (1/5) [Hall 1 | Tuesday 12 May 2026 | 09:00-10:00]

Chair: Prof. Dr. Duygu Ağaogulları Co-Chair: Res. Asst. Asude Bolat

Time	Abs No	Order	Paper Title	Presenter	Institution
09:00-09:15	9937	1	Electrospinning of Waste-Derived Polymer for the Fabrication of Vascular Scaffold Containing Plant Extracts	Melisay Aksoy	Istanbul Technical University
09:15-09:30	1180	2	Pack Aluminumizing of CMSX-4 Single Crystal Alloy	Gizem Köşretaş	Istanbul Technical University
09:30-09:45	1301	3	Production and Characterization of Ni-SiC Based Composite Coatings on Al-Si Eutectic Alloys	Kaan Ozsarac	Istanbul Technical University
09:45-10:00	1949	4	Investigation of Self-Recovery Behavior in Recycling of PLA/TPU Blends	Elif Çeçen	Istanbul Technical University

### T2-S06 Materials Science and Engineering (2/5) [Hall 1 | Tuesday 12 May 2026 | 11:00-12:00]

Chair: Dr. Mehtap Arslan Kaba Co-Chair: Res. Asst. Asude Bolat

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	2117	1	Development Of HfB <sub>2</sub> And LaB <sub>6</sub> Reinforced Inconel 718 Composites By Using Powder Metallurgy Methods	Ahmet Akay Habeşoğlu	Istanbul Technical University
11:15-11:30	2368	2	Investigation of PFAS Presence in Molded Fiber Bowls and Development of Cellulose Nanocrystal-Based Alternative Barrier Systems	Hande GÖKER	Istanbul Technical University
11:30-11:45	2443	3	Design and Characterization of a Drug-Eluting PLA Stent	Rumeysa ŞENER	Yıldız Technical University
11:45-12:00	2514	4	Influence of Blast Furnace Slag on The Fining Mechanism of Reducing and Oxidizing Soda-Lime-Silica Glass Batch	Tayfun Sarıkan	Istanbul Technical University

### T2-S07 Materials Science and Engineering (3/5) [Hall 1 | Tuesday 12 May 2026 | 12:00-13:00]

Chair: Dr. Mehtap Arslan Kaba Co-Chair: Res. Asst. Asude Bolat

Time	Abs No	Order	Paper Title	Presenter	Institution
12:00-12:15	2592	1	Optimization of Micro Arc Oxidation Parameters on 7075 Aluminum Alloy by Taguchi Method and Grey Relational Analysis	Sencer Öztan	Istanbul Technical University

## Track T2 | Materials, Chemistry and Process Engineering — Online

12:15-12:30	2992	2	Utilization of Hydrogen Gas as a Reductant in Green Iron Production from Slag	Çağdaş Ekin Zöhra	Istanbul Technical University
12:30-12:45	3697	3	Investigation of Dealkalization Process of Flat Glass Using Sulphur Containing Gas Compounds and Improvement of Environmental Durability	Eda Vergili	Istanbul Technical University
12:45-13:00	3746	4	Powder Metallurgical Synthesis and Characterization of High-Entropy (HfTiZrVTa)B <sub>2</sub> Diboride Reinforced Al and Al <sub>4</sub> Cu Matrix Composites	Berkay Demircan	Istanbul Technical University

### T2-S08 Materials Science and Engineering (4/5) [Hall 1 | Tuesday 12 May 2026 | 14:00-15:00]

Chair: Dr. Siddika Mertdinç Ülküseven      Co-Chair: Res. Asst. Asude Bolat

Time	Abs No	Order	Paper Title	Presenter	Institution
14:00-14:15	4123	1	Effect of Graphene Addition in Pack Aluminizing of IN718 Alloy on Mechanical Properties of Coating	İrem Ece Harani	Istanbul Technical University
14:15-14:30	4455	2	Development of a Smart Wearable Corset for Posture Monitoring and Correction	Oğuzcan Topaçlıoğlu	Ege University
14:30-14:45	4751	3	Synthesis and Characterization of Bismuth Titanate and Bismuth Tungstate Nanoparticles for the Production of Composite Radiation Shielding Materials	Mümin Balaban	Istanbul Technical University
14:45-15:00	4893	4	Ba/La Effect on Sintering Shrinkage of Al <sub>2</sub> O <sub>3</sub>	Ezgi Şahin	Istanbul Technical University

### T2-S09 Materials Science and Engineering (5/5) [Hall 1 | Tuesday 12 May 2026 | 15:00-16:00]

Chair: Dr. Siddika Mertdinç Ülküseven      Co-Chair: Res. Asst. Asude Bolat

Time	Abs No	Order	Paper Title	Presenter	Institution
15:00-15:15	5384	1	Synthesis of Environmentally Friendly Modified Ketonic Resins and Their Investigation in Rigid Insulation Polyurethane Foam	Esrarur Öztürk	Istanbul Technical University
15:15-15:30	6186	2	Bridging Nanomaterials and Sustainable Agriculture: Mo,N-Doped Carbon Quantum Dots as UV-Protective Agents for Plant Pigments	İbrahim Yağız COŞKUN	Istanbul Technical University
15:30-15:45	6526	3	Influence Of Modifier and Intermediate Oxide Ratios on the Chemical and Mechanical Properties of Soda-Lime Silicate Glasses	Deniz San Gürler	Istanbul Technical University
15:45-16:00	7794	4	Comparative Investigation of Ti6Al4V Alloy Treated with Micro-Arc Oxidation and Anodization Coatings	Enes Kök	Istanbul Technical University

### T2-S10 Mining, Petroleum and Nuclear (1/2) [Hall 1 | Tuesday 12 May 2026 | 16:15-17:15]

Chair: Assoc. Prof. Dr. M. Mustafa Kahraman      Co-Chair: Res. Asst. Asude Bolat

Time	Abs No	Order	Paper Title	Presenter	Institution
16:15-16:30	7912	1	Detection, Analysis and Characterization of Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) on Cookware Surfaces	Ezgi Gönül	Istanbul Technical University
16:30-16:45	1206	2	A Machine Learning Assisted Modelling Approach of Multilateral Fishbone Well Designs in Heavy-Oil Sandstone Reservoirs	Erk Yiğit Gözükara	Istanbul Technical University
16:45-17:00	2066	3	Three Dimensional Geotechnical Model and Numerical Analysis in Underground Metallic Mining	Bilal Aydoğan	Istanbul Technical University
17:00-17:15	5631	4	Petrophysical Evaluation of Carbonate and Sandstone Reservoirs: Integrating Hydraulic Flow Units and Discrete Rock Types	Mehmet Boyraz	Istanbul Technical University

### T2-S11 Mining, Petroleum and Nuclear (2/2) [Hall 1 | Wednesday 13 May 2026 | 09:00-10:00]

Chair: Assis. Prof. Dr. K. Tahsin Perek      Co-Chair: Dr. Aycan Kizilkaya

Time	Abs No	Order	Paper Title	Presenter	Institution
09:00-09:15	6408	1	Determination of Breakage Parameters and Perfect Mixing Model Simulation of a Kastamonu Copper Ore	Zeynep Gür	Istanbul Technical University
09:15-09:30	7187	2	Development of a Data-Driven Rheology Prediction Model for Drilling Fluids	Onuralp Mete Yağmur	Istanbul Technical University
09:30-09:45	7997	3	Radiation-Induced Defect in Material: A Case Study on Silicon through First-Principles and Experimental Investigation	Maryam Mansoor	Istanbul Technical University
09:45-10:00	9253	4	Process, Structure and Performance Relationships in Viton Coated Boron Based Pyrotechnic Materials for Turbojet Ignition	MERVE ALPAKIN ÖTE	Istanbul Technical University

## Track T3 | Electrical, Electronics, Computing and Mathematical Sciences — Online

### T3-S01 Electrical Engineering and Power Systems (1/4) [Hall 2 | Monday 11 May 2026 | 11:00-12:00]

Chair: Prof. Dr. M. Berke Yelten Co-Chair: Res. Asst. Hatice Tuğba Karayama

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	1246	1	SDR-Based Comparative Performance Analysis of MVDR and ESPRIT for Direction-of-Arrival Estimation	Mustafa Yasin ATEŞ	Istanbul Technical University
11:15-11:30	1504	2	Design and Calibration of a Wideband COTS Transceiver for Near-Field Microwave Imaging	Yunus Baykal	Istanbul Technical University
11:30-11:45	2410	3	Noise-Augmented Frequency-Domain 1D CNN for Rotating Machinery Fault Diagnosis	Shafiq Mohamed Ismail	Konya Technical University
11:45-12:00	2800	4	A 28-Gb/s PAM-4 Inductorless Transimpedance Amplifier with 40-dB Dynamic Range for High-Capacitance Photodiodes	Muhammed Emin Tunbak	Istanbul Technical University

### T3-S02 Electrical Engineering and Power Systems (2/4) [Hall 2 | Monday 11 May 2026 | 14:00-15:00]

Chair: Prof. Dr. Ece Olcay Güneş Co-Chair: Res. Asst. Hatice Tuğba Karayama

Time	Abs No	Order	Paper Title	Presenter	Institution
14:00-14:15	3348	1	An Ultra-Compact Bi-directional Ka-Band Front-End Module Supporting Full 5G FR2 Coverage (24–30 GHz)	Hüseyin Cahit Erbil	Istanbul Technical University
14:15-14:30	4057	2	Design and Asic Implementation of a Hardware Security Shield on a Risc-v Soc	Oğuzhan Vatanserver	Istanbul Technical University
14:30-14:45	4200	3	Implementation of a CCSDS Compliant Telecommand Decoder Subsystem with the Ascon-AEAD128 Lightweight Authenticated Encryption Algorithm	Arda Hüseyin Özalp	Istanbul Technical University
14:45-15:00	4772	4	A 2-25 GHz GaAs MMIC Distributed Low-Noise Amplifier with an Integrated Bypass Function	Veli Hakan	Istanbul Technical University

### T3-S03 Electrical Engineering and Power Systems (3/4) [Hall 2 | Monday 11 May 2026 | 15:00-16:00]

Chair: Prof. Dr. Serdar Özoğuz Co-Chair: Res. Asst. Hatice Tuğba Karayama

Time	Abs No	Order	Paper Title	Presenter	Institution
15:00-15:15	5228	1	From Classical Machine Learning to CNN-Transformer: A Scalability-Focused Comparative Study for Specific Emitter Identification	Alp Özcan	Istanbul Technical University
15:15-15:30	5586	2	A Radix-4 Decimation-in-Time Butterfly Unit Design with Optimized Floating-Point Implementations	İbrahim Taştan	Istanbul Technical University
15:30-15:45	6379	3	LDO with switchable ultra-low power features via current comparator in 65 nm CMOS Technology	Salih ULUKOZ	Istanbul Technical University
15:45-16:00	6683	4	Improving TDOA Localization Accuracy via Adaptive UAV Sensor Geometry	Elif Büşra Küçüktepepınar	Istanbul Technical University

### T3-S04 Electrical Engineering and Power Systems (4/4) [Hall 2 | Monday 11 May 2026 | 16:15-17:15]

Chair: Prof. Dr. Serdar Özoğuz Co-Chair: Res. Asst. Hatice Tuğba Karayama

Time	Abs No	Order	Paper Title	Presenter	Institution
16:15-16:30	6916	1	Direction of Arrival Estimation of Coherent Sources Using Polarization-Sensitive Arrays	Umut Yıldız	Istanbul Technical University
16:30-16:45	7526	2	Effect of Membrane Rigidity on Photoacoustic Signal Stability and Acoustic Damping Mechanism in Gold Nanoparticle-Loaded Liposomal Carriers	Elif Gürbuz	Istanbul Technical University
16:45-17:00	7892	3	An RF Front-End Characterization System for Amplitude Equalization	Enes MUTTA	Istanbul Technical University
17:00-17:15	9129	4	Compact Distributed Amplifier Design using Nested Inductor Structures	Firat Adsan	Istanbul Technical University

### T3-S05 Electronics and Communication (1/2) [Hall 2 | Tuesday 12 May 2026 | 09:00-10:00]

Chair: Assoc. Prof. Dr. Ahmet Can Erten Co-Chair: Res. Asst. Hatice Tuğba Karayama

Time	Abs No	Order	Paper Title	Presenter	Institution
09:00-09:15	9915	1	FPGA-Based Hardware Implementation of a Hippocampus-Inspired Spiking Neural Network	Sevde Vuslat Çıkkıcı	Istanbul Technical University
09:15-09:30	1021	2	Electromagnetic Performance Analysis of a Flux-Switching Permanent Magnet Generator	Umut Terzi	Istanbul Technical University
09:30-09:45	1259	3	Contributions to the Design of an Isolated Power Supply for Engine Control Units in National Aviation Applications	Nehir Akkuş	Istanbul Technical University
09:45-10:00	1909	4	Design and Performance Analysis of Parallel Connected GaN HEMTs using Double Pulse Test	Fikri Serkan Yavuz	Yıldız Technical University

### T3-S06 Electronics and Communication (2/2) [Hall 2 | Tuesday 12 May 2026 | 11:00-12:00]

Chair: Prof. Dr. Onur Ferhanoglu Co-Chair: Res. Asst. Hatice Tuğba Karayama

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	2355	1	Information Group Hierarchy and Ablation Analysis for Measuring Strategic Value in Istanbul's Industrial Electricity Demand Forecasting	REHABARAN	Istanbul Technical University
11:15-11:30	3972	2	Modeling Blackouts on IEEE Test Networks for Early Warning Algorithms	Buğra Erkek	Istanbul Technical University
11:30-11:45	8441	3	Battery Energy Storage Systems Optimization for Multi-Service Operation Considering Aging and Economic Returns in the Turkish Electricity Market	Sadi Muhammet Ümit	Istanbul Technical University
11:45-12:00	9292	4	Design of a High-Efficiency SiC-Based Bidirectional DC-DC Converter for High-Voltage Applications	Hatice ÇELİK	Istanbul Technical University

### T3-S07 Computer Sciences and Engineering (1/3) [Hall 2 | Tuesday 12 May 2026 | 12:00-13:00]

Chair: Assoc. Prof. Dr. Volkan Müjdat Tiryaki Co-Chair: Res. Asst. Hatice Tuğba Karayama

Time	Abs No	Order	Paper Title	Presenter	Institution
12:00-12:15	9982	1	Energy Management and Efficiency Optimization of a Hybrid Fuel Cell-Battery System for Small-Scale Electric Vehicles	Beyza Gül Şimşek	Istanbul Technical University

## Track T3 | Electrical, Electronics, Computing and Mathematical Sciences — Online

12:15-12:30	1448	2	A Modular Deep Learning Framework for Age and Sex Estimation from Multi-Anatomy Radiographs	Ekin Kağan Özkan	Istanbul Technical University
12:30-12:45	3097	3	Performance Comparison Of Large Language and Vision-Language Models On Unified Memory Architectures: Apple Silicon Versus NVIDIA Blackwell	Emre Ersoy	Istanbul Technical University
12:45-13:00	3385	4	Clustering Large-Scale Molecular Datasets: Faster Complete-Linkage at Threshold Consistency	Arshia Lamei	Istanbul Technical University

### T3-S08 Computer Sciences and Engineering (2/3) [Hall 2 | Tuesday 12 May 2026 | 14:00-15:00]

Chair: Dr. Muhammet Sebul Beratoğlu Co-Chair: Res. Asst. Hatice Tuğba Karayama

Time	Abs No	Order	Paper Title	Presenter	Institution
14:00-14:15	4445	1	Loss Function Analysis for Building Segmentation on the xBD Dataset Using VM-UNet	Fatma Kuzey Edes-Huyal	Altınbaş University
14:15-14:30	4483	2	Sudo: Scalable Underutilized Device Optimization	Mirac Vural	Istanbul Technical University
14:30-14:45	6913	3	A Multi-Agent Large Language Model Council Framework for Automated Integrity Assessment of User-Generated Video Game Review	Sumeyye Reyhan Eren	Istanbul Technical University
14:45-15:00	8095	4	Performance Analysis of Tcp, Udp and PCIe Data Transfers in Vxworks-Based Radar Systems	Ahmet Bartu YILMAZ	Istanbul Technical University

### T3-S09 Computer Sciences and Engineering (3/3) [Hall 2 | Tuesday 12 May 2026 | 15:00-16:00]

Chair: Assoc. Prof. Dr. Aslı Kanan Co-Chair: Res. Asst. Hatice Tuğba Karayama

Time	Abs No	Order	Paper Title	Presenter	Institution
15:00-15:15	9006	1	A Multi-Modal Deep Learning Framework for Binary Breast Cancer Classification	Neslihan Koyuncu	Istanbul Technical University
15:15-15:30	9263	2	Causality-Informed Dynamic Graph Neural Networks for Stock Return Prediction	Doğu Berk Gümüş	Istanbul Technical University
15:30-15:45	9389	3	Decentralized Trust Anchors: A Blockchain-Based Peer-Assisted Recovery Protocol for FIDO2 Credentials in Zero-Trust Enterprise Environments	Murat Sekmen	Istanbul Technical University
15:45-16:00	9845	4	Player Agency in Adaptive Game Environments: A Typology-Based Analysis	Sena Subaşı	Istanbul Technical University

### T3-S10 Mathematical and Physics Engineering (1/2) [Hall 2 | Tuesday 12 May 2026 | 16:15-17:15]

Chair: Prof. Dr. Atabey Kaygun Co-Chair: Res. Asst. Hatice Tuğba Karayama

Time	Abs No	Order	Paper Title	Presenter	Institution
16:15-16:30	2845	1	Real-Time Experimental Evaluation of PID and Fuzzy Speed Control for Sinusoidal BLDC Drives	Eymen Koşar	Istanbul Technical University
16:30-16:45	3222	2	Design and Development of an Embedded Tester Based on NMEA 0183 for Validation in Marine Navigation Systems	Gamze Kutluğ	Istanbul Technical University
16:45-17:00	5922	3	Comparison of Trajectory Generation Methods for Terrain Following Flights	Bilgehan Tanyeri	Istanbul Technical University
17:00-17:15	5982	4	Implementation of Hybrid Petri Nets on PLC for Automation and Adaptive Control of Turkish Coffee Machine	Gülşen Ece Kilsedar	Istanbul Technical University

### T3-S11 Mathematical and Physics Engineering (2/2) [Hall 2 | Wednesday 13 May 2026 | 09:00-10:00]

Chair: Prof. Dr. Gülçin Mihriye Muslu Co-Chair: Res. Asst. Ahmet Yazıcı

Time	Abs No	Order	Paper Title	Presenter	Institution
09:00-09:15	7036	1	Finite Time Passivity-based Control of Ikeda System with Time-Delay	Eray Özkurt	Istanbul Technical University
09:15-09:30	7801	2	Turret Stabilization Using Neuro-Adaptive Control Techniques	Burakcan Solak	Istanbul Technical University
09:30-09:45	7978	3	Drift-Aware GNSS-EKF Localization Performance Analysis Under GNSS-Available and GNSS-Denied Conditions in a ROS 2 Environment	Osman ÇOBAN	Istanbul Technical University
09:45-10:00	9313	4	Design and Analysis Methods of Nonlinear Dynamic Inversion and Autopilot for Fixed-Wing Fighter Aircraft	Ayşe Aydan Macit	Istanbul Technical University

### T3-S12 Control and Systems Dynamics (1/2) [Hall 2 | Wednesday 13 May 2026 | 11:00-12:00]

Chair: Prof. Dr. Yaprak Yalçın Co-Chair: Res. Asst. Ahmet Yazıcı

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	1397	1	Slow-Fast Dynamical Analysis of a FitzHugh-Nagumo Type Model for Dual Cognitive Processes	Furkan Emre Işık	Istanbul Technical University
11:15-11:30	1811	2	Lie Symmetry Analysis of the (2+1)-Extended Kadomtsev-Petviashvili-Boussinesq Equation	Ayşe Tiryakioğlu	Istanbul Technical University
11:30-11:45	1984	3	Design of a Modular Spectrophotometric Device for Multiplex Biomarker Determination in Serum Samples Using Visible Region Absorption Spectroscopy	Furkan ÜLENGİN	Istanbul University
11:45-12:00	2051	4	Supergravity Extension of Third-Way Consistent 3D Supersymmetric Gauge Theories	Kubilay Mert Ateş	Istanbul Technical University

### T3-S13 Control and Systems Dynamics (2/2) [Hall 2 | Wednesday 13 May 2026 | 12:00-13:00]

Chair: Assis. Prof. Dr. Abdurrahman Yılmaz Co-Chair: Res. Asst. Ahmet Yazıcı

Time	Abs No	Order	Paper Title	Presenter	Institution
12:00-12:15	2092	1	A Lightweight Hybrid Protocol Proposal Based on Hyperelliptic Curve and ChaCha20-Poly1305 for DICOM Medical Image Encryption	Altuğ Beyhan	Istanbul Technical University
12:15-12:30	5924	2	Calculation of Casimir Eigenvalues and Cohomology of E6 Lie Algebra	Batuhan ILHAN	Istanbul Technical University
12:30-12:45	7220	3	Integrated Optimization of Two-Dimensional Cutting Paths Using Genetic Algorithms and Geometric Preprocessing	İzzet Göksel	Istanbul Technical University
12:45-13:00	7725	4	Strain-Induced Topological Phase Transition in 2D BiSb Monolayer: A First-Principles Study	Recep Furkan Koç	Istanbul Technical University

## Track T4 | Civil, Earthquake, Construction and Transportation Engineering — Online

### T4-S01 Civil and Structural Engineering (1/3) [Hall 3 | Monday 11 May 2026 | 11:00-12:00]

Chair: Assis. Prof. Dr. Ö. Tuğrul Turan Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	3147	1	Use of Recycled Concrete Powder as Cement Substitute	Kadircan Varan	Istanbul Technical University
11:15-11:30	3533	2	Causes of Failure for a Mechanically Stabilized Earth Wall, A Case Study	Kübra Yıldız	Istanbul Technical University
11:30-11:45	3743	3	Evaluation of Linear and Nonlinear Analysis of Concentrically Braced Steel Frames According to TSCB2018 and ASCE41	Servan Çıplak	Istanbul Technical University
11:45-12:00	4081	4	Mechanical and Environmental Performance of Concrete Incorporating GGBS and Pumice Powder	Mahdi Shakerifard	Istanbul Technical University

### T4-S02 Civil and Structural Engineering (2/3) [Hall 3 | Monday 11 May 2026 | 14:00-15:00]

Chair: Assoc. Prof. Dr. Abdullah Can Zülfiyar Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu

Time	Abs No	Order	Paper Title	Presenter	Institution
14:00-14:15	5089	1	Development and Implementation of Energy-Dissipating Connection Details for Precast Reinforced AAC Panel Walls Subjected to Lateral Impact and Blast Loads	Servan DUMAN	Istanbul Technical University
14:15-14:30	5505	2	Determinants of Electric Vehicle Adoption in Türkiye: A Discrete Choice Analysis	Muhammed Yusuf Kahveci	Gebze Technical University
14:30-14:45	6049	3	Preliminary Tests of Beam-Column Connection in Precast RC Structures Equipped with Energy Dissipating Fuse Elements	Muhammed Fatih Ergün	Istanbul Technical University
14:45-15:00	6894	4	Strength Activity Index (SAI) Assessment of clay reactivities under different calcination temperatures	Enes Hamidoğlu	Istanbul Technical University

### T4-S03 Civil and Structural Engineering (3/3) [Hall 3 | Monday 11 May 2026 | 15:00-16:00]

Chair: Assis. Prof. Dr. Ö. Tuğrul Turan Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu

Time	Abs No	Order	Paper Title	Presenter	Institution
15:00-15:15	6895	1	Effect of Calcination Temperature on the Activity Index of Blended Clay Cements in Terms of Capillary Absorption	Nur Demir	Istanbul Technical University
15:15-15:30	7494	2	A Proposal For A Preliminary Cost Estimation Model At The Conceptual Stage Of Construction Projects	Serdar Tanrıku	Istanbul Technical University
15:30-15:45	9534	3	Microstructural Behavior of Graphene-Reinforced Cement Composites: A Material-Based Computational Design Approach	Arif Avni Uzuner	Istanbul Technical University
15:45-16:00	9921	4	Research Insights on the Non-local Micromechanical Explicit Analysis of Crack Parallel Stress Effects via Finite Element Modelling of the Gap Test	Sedat Kömürcü	Istanbul Technical University

### T4-S04 Earthquake Engineering and Geotechnics (1/3) [Hall 3 | Monday 11 May 2026 | 16:15-17:15]

Chair: Prof. Dr. Murat Monkul Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu

Time	Abs No	Order	Paper Title	Presenter	Institution
16:15-16:30	2035	1	Evaluation of Strategies for Establishment of Temporary Shelters	KANAN RAHIMOV	Istanbul Technical University
16:30-16:45	2333	2	Assessment of Vitric Tufts in the Bolu-Dörtdivan District as Potential Construction Materials	Mesut IŞ	Fatih Sultan Mehmet Vakif University
16:45-17:00	2485	3	Comparative Evaluation of Dynamic Soil Model Experiments with Numerical Analyses	Zorbey Ulus	Istanbul Technical University
17:00-17:15	2843	4	Evaluation of Different Column Pattern Configurations Beneath Road Embankment Slope Stabilized by the Deep Soil Mixing Method	Murat PERVER	Istanbul Technical University

### T4-S05 Earthquake Engineering and Geotechnics (2/3) [Hall 3 | Tuesday 12 May 2026 | 09:00-10:00]

Chair: Assoc. Prof. Dr. Müge Balkaya Co-Chair: Res. Asst. Ahmet Yazıcı

Time	Abs No	Order	Paper Title	Presenter	Institution
09:00-09:15	3205	1	Comparative Evaluation of Physico-Mechanical, Mineralogical and Geochemical Properties of Aggregates from Different Lithological Origins	Alper Akgündüz	Istanbul Technical University
09:15-09:30	3609	2	Accessibility of Educational Facilities in the Post-Disaster Reconstruction Process: A Spatial Analysis of Container Settlement and TOKI Housing Areas in Hatay	Gözde İdil Özcan	Istanbul Technical University
09:30-09:45	3629	3	Piled Raft Analysis Under Combined Loading: A Case Study	Ahmet Tuğsat Şimşek	Istanbul Technical University
09:45-10:00	6206	4	AI-Driven Data Augmentation for RC Shear Walls: Generation and Validation through Structural Criteria	Göktuğ ERTUĞRUL	Istanbul Technical University

### T4-S06 Earthquake Engineering and Geotechnics (3/3) [Hall 3 | Tuesday 12 May 2026 | 11:00-12:00]

Chair: Assoc. Prof. Dr. Zeynep Değer Co-Chair: Res. Asst. Ahmet Yazıcı

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	6494	1	Bayesian Earthquake Damage Assessment Using Observable Damage Indicators Under Uncertainty	Aslı Turabi	Istanbul Technical University
11:15-11:30	7109	2	Numerical Modeling and Validation of Geothermal Energy Piles: A Case Study at EPFL, Lausanne	Gülce Genç	Istanbul Technical University
11:30-11:45	8821	3	Evaluating functional urban resilience under air-to-ground strikes: A GNN simulation of cascading failures	DOAAAL-JAHMI	Istanbul Technical University
11:45-12:00	9571	4	Mechanical Behavior of Waste Glass-Modified Clayey Soils	Metehan Aydın	Istanbul Technical University

### T4-S07 Project and Construction Management (1/3) [Hall 3 | Tuesday 12 May 2026 | 12:00-13:00]

Chair: Prof. Dr. Esin Ergen Pehlevan Co-Chair: Res. Asst. Ahmet Yazıcı

Time	Abs No	Order	Paper Title	Presenter	Institution
12:00-12:15	9948	1	Rule-Based Generative Framework for the Rehabilitation of Earthquake-Damaged Reinforced Concrete Structures Using Steel Support Systems	Hakan Şahin	Istanbul Technical University

## Track T4 | Civil, Earthquake, Construction and Transportation Engineering — Online

12:15-12:30	1704	2	Motivational Factors and Organizational Commitment Across Generations: A Study of Office-Based Professionals in the Construction Industry	Ahsen Köksal	Istanbul Technical University
12:30-12:45	2617	3	Construction Delays in Restoration Projects	Ömer Mendeş	Istanbul Technical University
12:45-13:00	3998	4	A Meta-Analysis of Change Order Impacts on Construction Project Performance: A Systematic Review	Eylül Efeoğlu	Istanbul Technical University

### T4-S08 Project and Construction Management (2/3) [Hall 3 | Tuesday 12 May 2026 | 14:00-15:00]

Chair: Assis. Prof. Dr. Deniz B. Bural Co-Chair: Res. Asst. Ahmet Yazıcı

Time	Abs No	Order	Paper Title	Presenter	Institution
14:00-14:15	4017	1	A Literature Review on the Barriers to Adopting Lean Construction	Göksu Simge Üstüner	Istanbul Technical University
14:15-14:30	7116	2	Prioritization of Zoning Regulation Articles for Digital Approval of Architectural Projects: Kocaeli Analysis With AHP And Delphi	Bartu Büyükkeskin	Istanbul Technical University
14:30-14:45	8487	3	A Risk Assessment-Based Fire-Safe Building Compliance Check Model: A Conceptual Framework	Safak Besiroglu	Istanbul Technical University
14:45-15:00	9427	4	Optimization of Fire Safety in Sustainable Buildings: A Multi-Criteria Performance Model and Interaction Matrix Proposal	Gökçe Saadet Arpacı Coşkun	Istanbul Technical University

### T4-S09 Project and Construction Management (3/3) [Hall 3 | Tuesday 12 May 2026 | 15:00-16:00]

Chair: Assis. Prof. Dr. Cihad Delen Co-Chair: Res. Asst. Ahmet Yazıcı

Time	Abs No	Order	Paper Title	Presenter	Institution
15:00-15:15	9448	1	Large Language Models for Information Extraction from Public Construction Tender Documents: A Systematic and Thematic Review	Mustafa Polat	Istanbul Technical University
15:15-15:30	9498	2	Assessing AI Image-to-3D Reconstruction for Drone-Based Building Modeling: A Benchmark Framework for Urban Platform Integration	Abdalrahman T. Y. Alashi	Istanbul Technical University
15:30-15:45	4628	3	High-Performance Work Systems in Maritime Organizations: A System Architecture Perspective	Mehmet Özkan Keleş	Istanbul Technical University
15:45-16:00	5984	4	Traffic Accidents in Türkiye: A 15-year Statistical Analysis of Trends and Contributing Factors	Muhanad Azmi Mohamed Osman	Istanbul Technical University

### T4-S10 Transportation, Railway and Maritime Logistics (1/1) [Hall 3 | Tuesday 12 May 2026 | 16:15-17:15]

Chair: Assis. Prof. Dr. Cihad Delen Co-Chair: Res. Asst. Ahmet Yazıcı

Time	Abs No	Order	Paper Title	Presenter	Institution
16:15-16:30	5996	1	Validation of a Multidimensional High-Performance Work Systems Scale in the Maritime Industry	Mehmet Özkan Keleş	Istanbul Technical University
16:30-16:45	6843	2	Value of Travel Time Estimation for Autonomous Vehicles and Advanced Air Mobility in Istanbul	Yiğit Can Yavuz	Istanbul Technical University
16:45-17:00	7309	3	Investigation of the Relationship Between Flow Speed And Flow Rate in Interrupted Flows	Alperen Köstüklü	Istanbul Technical University
17:00-17:15	3355	4	Experimental Study on the Effect of Debris Accumulation on Bridge Pier Scour	Yasemin Eldayih Kanber	General Directorate of State Hydraulic Works

## Track T5 | Sustainability, Environment, Energy and Earth Sciences — Online

### T5-S01 Sustainability and Climate Action (1/4) [Hall 4 | Monday 11 May 2026 | 11:00-12:00]

Chair: Assis. Prof. Dr. Ramazan Keyikoğlu Co-Chair: Res. Asst. Berker Pandir

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	1925	1	Alignment Between IFC Performance Standards and Turkish Environmental and Social Legislation	Aziz Atan	Istanbul Technical University
11:15-11:30	2099	2	Performance Based Evaluation of Wastewater Treatment Plants Using Carbon and Water Footprint	Hüdanur Şefik	Istanbul Technical University
11:30-11:45	3600	3	Integrating Geospatial Climate Risk and Circular Economy Performance: A Resilience-Based Framework for Designing Sustainable Wastewater Treatment Plants in Türkiye	Muratcan Başkurt	Istanbul Technical University
11:45-12:00	4075	4	Investigating the Qualitative and Quantitative Savings of BIM through the Building Design Process Based on a Case Study	Buket Alpman	Istanbul Technical University

### T5-S02 Sustainability and Climate Action (2/4) [Hall 4 | Monday 11 May 2026 | 14:00-15:00]

Chair: Assis. Prof. Dr. Ramazan Keyikoğlu Co-Chair: Res. Asst. Berker Pandir

Time	Abs No	Order	Paper Title	Presenter	Institution
14:00-14:15	4132	1	The Effect of Facade Orientation on Lighting Automation and Energy Efficiency in Educational Buildings: The Case of ITU Energy Institute	Zeynep Demir	Istanbul Technical University
14:15-14:30	5252	2	Energy Transition and Capital Reallocation in the European Renewable Energy M&A Market	Duygu Gence	Istanbul Technical University
14:30-14:45	5491	3	Life Cycle Assessment of Constructed Wetlands for Building-Level Greywater Treatment and Reuse in Istanbul	Yeşim Umur	Istanbul Technical University
14:45-15:00	5931	4	Operational Building Energy Modelling and Improvement Strategies within a Life Cycle Perspective: A Residential Case Study	Abdurrahim BAŞTUĞ	Istanbul Technical University

### T5-S03 Sustainability and Climate Action (3/4) [Hall 4 | Monday 11 May 2026 | 15:00-16:00]

Chair: Assis. Prof. Dr. Ebru Acuner Türet Co-Chair: Res. Asst. Berker Pandir

Time	Abs No	Order	Paper Title	Presenter	Institution
15:00-15:15	6405	1	Embedding Sustainability into Interdisciplinary Graduate Programs: A Comparative Curriculum Analysis of Selected Programs from EELISA Universities	İnci ÇELİKBAŞ	Istanbul Technical University
15:15-15:30	6582	2	Sustainability of Istanbul's Surface Water Resources Under the Influence of Climate Change	Nergis Çilek	Istanbul Technical University
15:30-15:45	6597	3	Sustainable Cabin Waste Management in the Aviation Sector: Waste Generation, Characterization, and Circular Economy Strategies	Sedef Karaman	Istanbul Technical University
15:45-16:00	6812	4	Sustainability Performance of Three Full Scale Landfill Leachate Treatment Plants	Sena Bürkük	Istanbul Technical University

### T5-S04 Sustainability and Climate Action (4/4) [Hall 4 | Monday 11 May 2026 | 16:15-17:15]

Chair: Assis. Prof. Dr. Ebru Acuner Türet Co-Chair: Res. Asst. Berker Pandir

Time	Abs No	Order	Paper Title	Presenter	Institution
16:15-16:30	6997	1	Effect of Recycled Concrete Fines Replacement Levels on the Strength of Cement	H. Simgе Karadoğаn	Istanbul Technical University
16:30-16:45	7688	2	The Impact of the EU Taxonomy on the Automotive Sector	Halenur Kundakcı	Istanbul Technical University
16:45-17:00	7871	3	ESG and firm performance in the core Eurozone: Evidence from quantile mean group estimation	Muhammet Atlas Dogan	Istanbul Technical University
17:00-17:15	8062	4	The Impact of Green Bonds on Environmental Quality	Zahra Rahimi	Istanbul Technical University

### T5-S05 Environmental Engineering and Biotechnology (1/2) [Hall 4 | Tuesday 12 May 2026 | 09:00-10:00]

Chair: Assis. Prof. Dr. Meltem Ağtaş Co-Chair: Res. Asst. Berker Pandir

Time	Abs No	Order	Paper Title	Presenter	Institution
09:00-09:15	9108	1	Comparative Analysis of Carbon Reduction Strategies Across Sectors Under the Türkiye Sustainability Reporting Standards	Tahire Akgündoğdu	Istanbul Technical University
09:15-09:30	1699	2	Methodology Development for Post – Earthquake Debris Management Planning in Türkiye	Nida Cabbar	Istanbul Technical University
09:30-09:45	2275	3	Integrating process kinetics and biometric methods to evaluate the effect of copper on nitrification	Theint Thet Htar Win	Istanbul Technical University
09:45-10:00	2334	4	qPCR-Based Analysis of Hydrogenase Gene Expression in Microalgal and Microalgae-Bacteria Coculture Systems under Sulfur Limitation	Nazlıcan Yüksek	Istanbul Technical University

### T5-S06 Environmental Engineering and Biotechnology (2/2) [Hall 4 | Tuesday 12 May 2026 | 11:00-12:00]

Chair: Assis. Prof. Dr. Meltem Ağtaş Co-Chair: Res. Asst. Berker Pandir

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	5893	1	Decarbonizing Türkiye: Trends in Energy Mix, Sectoral Contributions, and Greenhouse Gas Emissions (1990–2023)	Emile Yedahoun	Gazi University
11:15-11:30	6183	2	The Mussilage Phenomenon: The Crisis in Aquatic Ecosystems	Gökçe Çaylıođlu	Istanbul Technical University
11:30-11:45	7215	3	Comparison of Multi-Criteria Decision-Making Methods (AHP, TOPSIS and PROMETHEE II) for Selecting Solid and Liquid Waste Disposal Alternatives for Airport Terminal Operations	Ceren Ünü	Istanbul Technical University
11:45-12:00	9094	4	Biogas Upgrading By Centrifugal Rotating Packed Bed System	saharsadat parvini	Istanbul Technical University

### T5-S07 Energy Science and Technology (1/2) [Hall 4 | Tuesday 12 May 2026 | 12:00-13:00]

Chair: Assoc. Prof. Dr. Burak Barutçu Co-Chair: Res. Asst. Berker Pandir

Time	Abs No	Order	Paper Title	Presenter	Institution
12:00-12:15	1417	1	Performance and Economic Comparison of Active and Passive Balanced Battery Management Systems Used in Lithium-ion Battery Energy Storage Packages	Emre YILMAZ	Istanbul Technical University

## Track T5 | Sustainability, Environment, Energy and Earth Sciences — Online

12:15-12:30	2257	2	Agent-Based Modelling of Rooftop Solar PV Diffusion in Türkiye: Integrating Spatial Dynamics and Energy Justice	Yavuz UNAL	Istanbul Technical University
12:30-12:45	3765	3	Climate-Aware Electricity Market Design for Türkiye: Modular Retirement Analysis, Carbon Pricing, and ML-Based Monthly MCP Projections	Buğra Kocadağ	Istanbul Technical University
12:45-13:00	4506	4	Design and Techno-Economic Analysis of a Photovoltaic-Powered LED Road Lighting System for the Kayseri-Malatya Highway (M3 Class)	Nurullah Talha GORUCU	Istanbul Technical University

### T5-S08 Energy Science and Technology (2/2) [Hall 4 | Tuesday 12 May 2026 | 14:00-15:00]

Chair: Assoc. Prof. Dr. Senem Şentürk Lüle Co-Chair: Res. Asst. Berker Pandir

Time	Abs No	Order	Paper Title	Presenter	Institution
14:00-14:15	5387	1	The Impact of Environmental Factors on Performance Prediction in Combined Cycle Power Plants: Sensor Data Quality and Model Robustness Analysis	Muhammet Bekir Dilek	Istanbul Technical University
14:15-14:30	6002	2	Tandem Copper-Cobalt Phthalocyanine Electrodes for Enhanced Electrochemical CO <sub>2</sub> Conversion to Ethylene	Kadir Türkmen	Istanbul Technical University
14:30-14:45	7937	3	Life Cycle Assessment of Carbon-Coated Silica Anode Materials for Lithium-Ion Batteries	HAMRA DENİZ	Istanbul Technical University
14:45-15:00	8444	4	Comparative Analysis of Turkey and the European Union in Decarbonizing the Residential Sector	Emre Ünalın	Istanbul Technical University

### T5-S09 Atmospheric and Earth System Sciences (1/2) [Hall 4 | Tuesday 12 May 2026 | 15:00-16:00]

Chair: Prof. Dr. Kasım Koçak Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu

Time	Abs No	Order	Paper Title	Presenter	Institution
15:00-15:15	2933	1	Performance Assessment of Traditional and Machine Learning Based Measure Correlate Predict (MCP) Methods	Gizem Bakır	Istanbul Technical University
15:15-15:30	4364	2	Wind Tunnel Study on the Influence of Facade Roughness and Urban Geometry Representation on Urban Flow Fields	Dalyan Karabudak	Istanbul Technical University
15:30-15:45	4716	3	Revealing Climate Change for Turkey Through a Stationarity-Based Approach	Merve Topçuoğlu	Istanbul Technical University
15:45-16:00	6246	4	Measurement-Based Calibration of ERA5 Offshore Wind Speeds Using Physics-Informed Machine Learning: The Bozcaada YEKA Case	Diyar Güden	Istanbul Technical University

### T5-S10 Atmospheric and Earth System Sciences (2/2) [Hall 4 | Tuesday 12 May 2026 | 16:15-17:15]

Chair: Prof. Dr. Hüseyin Toros Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu

Time	Abs No	Order	Paper Title	Presenter	Institution
16:15-16:30	6646	1	The Relationship Between Heat Waves and Stroke Cases: The Case of Kayseri (2016-2021)	Bilge Nur Emre Demirtaş	Istanbul Technical University
16:30-16:45	6848	2	Mountain Wave Dynamics and Their Role in Extreme Precipitation Under Subcritical Flow A Case Study of the 11 August 2021 Western Black Sea Flood	Rahan Öztürk	Istanbul Technical University
16:45-17:00	7327	3	Climatology and Trend Analysis of Cloud Base Height at Istanbul Sabiha Gökçen Airport, Ankara Esenboğa Airport, and Antalya Airport in Türkiye	Rabia Bozdemir	Istanbul Technical University
17:00-17:15	1183	4	Spatio-Temporal Patterns Of Vegetation Indices And Surface Parameters In A Rapidly Transformed Solar Energy Landscape	Bensu Maden	Istanbul Technical University

### T5-S11 Geomatics and Geographical Information Technologies (1/3) [Hall 4 | Wednesday 13 May 2026 | 09:00-10:00]

Chair: Prof. Dr. Uğur Algancı Co-Chair: Res. Asst. Berkre Pandir

Time	Abs No	Order	Paper Title	Presenter	Institution
09:00-09:15	2465	1	Determination of millimeter-level building displacements using terrestrial laser scanning	Gülçin Aktaş	Istanbul Technical University
09:15-09:30	2662	2	Modelling the Effects of Earthquake Risk on Financial Risk Management Using Geographic Analysis Methods: A Spatial Risk Approach for the Banking Sector	Zeynep Çakır	Istanbul Technical University
09:30-09:45	3823	3	Open-Source ADS-B and GIS-Based Radar Site Assessment Under Jamming Scenarios	Abdullah Erşan	Istanbul Technical University
09:45-10:00	5528	4	Digital Twin Approach for the Integration of Three-Dimensional Urban Morphology into Planning Processes	Merve Gülsün	Istanbul Technical University

### T5-S12 Geomatics and Geographical Information Technologies (2/3) [Hall 4 | Wednesday 13 May 2026 | 11:00-12:00]

Chair: Assoc. Prof. Dr. Orkan Özcan Co-Chair: Res. Asst. Tuğba Yıldız

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	5574	1	Estimating Soil Organic Carbon Stocks Using Sentinel-2 and Environmental Variables with Machine Learning	Buse Selin Ercan	Istanbul Technical University
11:15-11:30	7977	2	An Adaptive Window Integration Framework for Agricultural Field Boundary Extraction Using Sentinel-2 Data	Mert Kerem Taş	Istanbul Technical University
11:30-11:45	8584	3	Evaluation of Property Restrictions and Compensation Mechanisms Concerning Immovable Cultural Properties under Law No. 2863	Merve Özyaşar	Istanbul Technical University
11:45-12:00	8644	4	A Model Proposal Based on the Nominal Valuation Method for Determining Easement Expropriation Compensation	Mustafa Yılmaz	Istanbul Technical University

### T5-S13 Geomatics and Geographical Information Technologies (3/3) [Hall 4 | Wednesday 13 May 2026 | 12:00-13:00]

Chair: Assoc. Prof. Dr. Orkan Özcan Co-Chair: Res. Asst. Tuğba Yıldız

Time	Abs No	Order	Paper Title	Presenter	Institution
12:00-12:15	8957	1	Development of GIS-Based Nominal Real Estate Valuation Model for Urban Regeneration Applications	Suzan Doğan	Istanbul Technical University
12:15-12:30	9802	2	15-Minute City in Complex Metropolises: Accessibility and Investment Cost Analysis	Ayşegül Edige	Istanbul Technical University
12:30-12:45	2420	3	Effect of Superheated Steam Cooking on the Nutritional Value of Broccoli: A Comparison with Conventional Methods	Selin Özkapıcı	Istanbul Technical University
12:45-13:00	3309	4	Investigation of the Effects of Different Culture Media on the Recombinant Production of Cold-Active Ferredoxin/Flavodoxin-NADP <sup>+</sup> Reductase	Kaan Dizer	Istanbul Technical University

Track T5 | Sustainability, Environment, Energy and Earth Sciences — Online

T5-S14 Molecular Biology, Genetics and Food Science (1/1) [Hall 4 | Wednesday 13 May 2026 | 13:00-14:00]

Chair: Prof. Dr. Ceren Çiracı Co-Chair: Res. Asst. Tuğba Yıldız

Time	Abs No	Order	Paper Title	Presenter	Institution
13:00-13:15	4293	1	In-silico Determination of Potential Antioxidant Activity of Bacteriocins Against Keap1 Using Molecular Docking and Dynamics Simulations	Salma Shrif Hussin Reffat	Istanbul Technical University
13:15-13:30	5664	2	Genomic Analysis of Multiple Stress-Resistant ( <i>Saccharomyces cerevisiae</i> ) Strains Obtained by Inverse Metabolic Engineering	Tuna Birgün	Istanbul Technical University
13:30-13:45	6747	3	Characterization and Evaluation of the Biotechnological Potential of Novel Self-Sufficient CYP116 Enzyme Discovered Through a Metagenomic Approach	Başak Birdal	Istanbul Technical University
13:45-14:00	7797	4	Genomic Analysis and Exopolysaccharide Production in a Tulum Cheese Isolate, ( <i>Loigolactobacillus coryniformis</i> ) FOL-19	Ipek Tek	Istanbul Technical University

## Track T6 | Architecture, Urban Planning and Heritage — Online

### T6-S01 Architectural Design Computing (1/4) [Hall 5 | Monday 11 May 2026 | 11:00-12:00]

Chair: Assis. Prof. Dr. İmdat As Co-Chair: Dr. Serhat Boynukalın

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	1396	1	Women's Mobilization at the Intersection of Home and Street: An Analysis of Martıkuşu Street	Gizem Saka	Istanbul Technical University
11:15-11:30	1552	2	Low-Cost Housing Solutions for the Housing Crisis: The Case of Unilever Vita Worker Houses in Istanbul	Didem Çalışkan Yıldız	Istanbul Technical University
11:30-11:45	2132	3	Reading the Production of Space by Hegemonic Forces Through the Boundaries on Dolmabahçe Avenue	Özge Özgerçek	Istanbul Technical University
11:45-12:00	3594	4	Architectural Montage: (Representing of Schema Accommodation Through the Agency of Infra-Ordinary Objects)	Ayşegül Oruçoğlu Aşkın	Istanbul Technical University

### T6-S02 Architectural Design Computing (2/4) [Hall 5 | Monday 11 May 2026 | 14:00-15:00]

Chair: Assoc. Prof. Dr. Can Uzun Co-Chair: Dr. Serhat Boynukalın

Time	Abs No	Order	Paper Title	Presenter	Institution
14:00-14:15	3884	1	Architectural Design Knowledge in Jury Critiques: The Cyranoid Model	Gökhan KIYICI	Istanbul Technical University
14:15-14:30	3942	2	Reconfiguring Sacred Space and Urban Circulation: The Temple-Church Conversion at Aphrodisias	İdili Özenel	Istanbul Technical University
14:30-14:45	4214	3	Waste Management and Urban Cleaning in the Early 20th-Century Istanbul	Eda Nur Dalgıç	Istanbul Technical University
14:45-15:00	5153	4	Dirty Scales, Uncanny Assemblages: The Ontology of Representation in Sazlıdere	Erdem Karaçay	Istanbul Technical University

### T6-S03 Architectural Design Computing (3/4) [Hall 5 | Monday 11 May 2026 | 15:00-16:00]

Chair: Prof. Dr. Hatice Sözer Co-Chair: Dr. Serhat Boynukalın

Time	Abs No	Order	Paper Title	Presenter	Institution
15:00-15:15	5698	1	Reimagining School as a Spatial and Social Network: A Multiple Case Study of Innovative Learning Environments	PINAR GOKBAYRAK YAVUZ	Istanbul Technical University
15:15-15:30	6045	2	The Architecture of Dust: A Reading of Architecture Through the Temporal and Political Layers of the Invisible	Banu Çiçek Ulucan	Istanbul Technical University
15:30-15:45	6066	3	The Impact of Interior Atmosphere on Users in New-Generation Coworking Spaces	Ceren Erdem	Istanbul Technical University
15:45-16:00	7496	4	Architectural Space in Cinema: Liminality and Spatial Experience in The Shining and Eternal Sunshine of the Spotless Mind	Ecehan Erancı Bayraktutan	Istanbul Technical University

### T6-S04 Architectural Design Computing (4/4) [Hall 5 | Monday 11 May 2026 | 16:15-17:15]

Chair: Prof. Dr. Nilgün Baydoğan Co-Chair: Dr. Serhat Boynukalın

Time	Abs No	Order	Paper Title	Presenter	Institution
16:15-16:30	8206	1	The Effects of Spatial Configuration and Furnishing on Socialisation in Public Libraries: Case Study of Rami Library, Istanbul	Ceren Şahin	Istanbul Technical University
16:30-16:45	8330	2	A Perspective on Iconicity and Educational Structures through the Interrelation of Identity Construction, Physicality, and Actors: The Case of Sapienza University of Rome	Ezgi ESEN	Istanbul Technical University
16:45-17:00	8478	3	Spaces of Creativity: How Physical Environments Shape Writers' Creative Processes	Hande Nur Güleçoğlu	Artvin Coruh University
17:00-17:15	9353	4	The Multilayered Spatial Dynamics of Medieval Maçka	Nihan Zorlu Başel	Istanbul Technical University

### T6-S05 Architectural Design and Theory (1/2) [Hall 5 | Tuesday 12 May 2026 | 09:00-10:00]

Chair: Prof. Dr. Pelin Dursun Çebi Co-Chair: Dr. Serhat Boynukalın

Time	Abs No	Order	Paper Title	Presenter	Institution
09:00-09:15	9840	1	Alternative Reading And Representation Of Cistern No. 14 In Fatih Through The Concept Of Deterritorialization	Hande Karagül	Istanbul Technical University
09:15-09:30	1388	2	Color difference and visual perception	Mertcan Yürekli	Istanbul Technical University
09:30-09:45	5220	3	Lighting Analysis Predictions Using U-Net, Pix2Pix, and Clustering Machine Learning Techniques	Hakan Şahin	Istanbul Technical University
09:45-10:00	5696	4	Integrating AI Agents into BIM for Architectural Design Support: A Torsional Eccentricity Assessment Case	Ecem Berna Şahin	Istanbul Technical University

### T6-S06 Architectural Design and Theory (2/2) [Hall 5 | Tuesday 12 May 2026 | 11:00-12:00]

Chair: Assoc. Prof. Dr. N. Onur Sönmez Co-Chair: Dr. Serhat Boynukalın

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	6034	1	Designing Phased Pneumatic Waste Infrastructure Using Cellular Automata	İpek Geç	Istanbul Technical University
11:15-11:30	6638	2	Title Distributed Design Cognition in Architect-Digital Environment Interaction: A Qualitative Inquiry through the 4E Cognition Framework	F. Aslı Yalçın	Istanbul Technical University
11:30-11:45	6860	3	Cost and Risk Management in Construction Projects: A System Dynamics Approach	Ömer Mansur Arıç	Istanbul Technical University
11:45-12:00	7758	4	Immaterial Space: A Soft Robotic Spatial System	Aykut Dağ	Istanbul Technical University

### T6-S07 Restoration, Heritage and Interior Architecture (1/3) [Hall 5 | Tuesday 12 May 2026 | 12:00-13:00]

Chair: Assoc. Prof. Dr. Lana Kudumovic Co-Chair: Dr. Serhat Boynukalın

Time	Abs No	Order	Paper Title	Presenter	Institution
12:00-12:15	1311	1	An Integrated Walkability Framework: Research Design for Objective Assessment and Pedestrian Experience in Bakırköy Town Center, Istanbul	Mitra Torkinezhadiri	Istanbul Technical University

## Track T6 | Architecture, Urban Planning and Heritage — Online

12:15-12:30	1475	2	Integration of Digital Twin Technology into the Turkish Spatial Planning System	Şeyma Savaş	Istanbul Technical University
12:30-12:45	2113	3	Transcriptization: A Multi-layered Approach to Event-Based Spatial Representation – The Case of Santralistanbul	İpek Usta	Istanbul Technical University
12:45-13:00	2197	4	Future City Born from Destruction: Scenario Planning for Post-Disaster Urban Futures	Gizem Bakioglu Apaydin	Istanbul Technical University

### T6-S08 Restoration, Heritage and Interior Architecture (2/3) [Hall 5 | Tuesday 12 May 2026 | 14:00-15:00]

Chair: Prof. Dr. Seniye Banu Garip Co-Chair: Res. Asst. Tuğba Yıldız

Time	Abs No	Order	Paper Title	Presenter	Institution
14:00-14:15	2460	1	Visual Perception and Urban Image Interaction in Campus Spaces: A Study on Istanbul Technical University Ayazağa Campus	Kevser Çalık	Istanbul Technical University
14:15-14:30	2612	2	Machine Learning-Based Interpretation of Urban Data: Socio-Spatial Analysis and Green Visibility Modeling in Kadıköy	Akif Emre Tavlaşoğlu	Istanbul Technical University
14:30-14:45	3820	3	Urban Safety Beyond Crime: Spatial Evaluation of CPTED Principles in Different Socio-Economic Contexts	Hatice Ezgi Gülusta	Istanbul Technical University
14:45-15:00	5143	4	Quantifying Carbon Emissions in Sustainable Urban Passenger Transport: A Case Study of Kızılay Boulevard	Zeynep Karataş	Istanbul Technical University

### T6-S09 Restoration, Heritage and Interior Architecture (3/3) [Hall 5 | Tuesday 12 May 2026 | 15:00-16:00]

Chair: Assoc. Prof. Dr. Demet Arslan Dinçay Co-Chair: Res. Asst. Tuğba Yıldız

Time	Abs No	Order	Paper Title	Presenter	Institution
15:00-15:15	6550	1	The Impact of Spatial Integration on Housing Fabric and Social Interaction through an Inter-Scale Approach: The Case of Muğla City Center	Nur Selin Serdaroglu	Istanbul Technical University
15:15-15:30	8151	2	Modern Trade Center in a Historic Environment: Mersin Metropolis Trade Center	Şevval Bozbey Balci	Istanbul Technical University
15:30-15:45	9122	3	A Multidimensional Assessment of Sharing Economy Potential in the University Sector: The Case of Kırklareli	Büşra Begen Okay	Istanbul Technical University
15:45-16:00	9362	4	Evaluating the Sharing Economy in Cities: An Indicator-Based Approach	Büşra Begen Okay	Istanbul Technical University

### T6-S10 Urban Design and Regional Planning (1/3) [Hall 5 | Tuesday 12 May 2026 | 16:15-17:15]

Chair: Prof. Dr. Elif Alkay Co-Chair: Res. Asst. Tuğba Yıldız

Time	Abs No	Order	Paper Title	Presenter	Institution
16:15-16:30	9565	1	Resilient Coastal Interfaces: A Systematic Review of Shoreline Evacuation Corridors and Policies in Seismic Megacities	Mehmet Emin Sarhan	Istanbul Technical University
16:30-16:45	2777	2	Evaluation of the current state of a traditional residential structure in Gaziantep.	Beritan Çiftçi	Istanbul Technical University
16:45-17:00	3079	3	Supportive Interior Spaces in Substance Abuse Treatment: Design Guidelines Proposed for Rehabilitation Centers in Türkiye	Elif Ezgi Karataş	Istanbul Technical University
17:00-17:15	3179	4	The Reconstruction of Urban Morphology Following Large-Scale Cultural Heritage Loss: The Case of Antakya	Ebru Ekinici	Istanbul Technical University

### T6-S11 Urban Design and Regional Planning (2/3) [Hall 5 | Wednesday 13 May 2026 | 09:00-10:00]

Chair: Prof. Dr. Şevkiye Şence Türk Co-Chair: Res. Asst. Hande Vural

Time	Abs No	Order	Paper Title	Presenter	Institution
09:00-09:15	3586	1	From Monastic Heritage to Cultural Routes: Cultural Tourism Potentials of the Tao-Klarjeti Monasteries	Mustafa Tahir Ocak	Istanbul Technical University
09:15-09:30	3866	2	Conservation Project of the Üsküdar Kalfayan (Semerciyan Cemaran) Armenian School	Selin Özaydin	Istanbul Technical University
09:30-09:45	4286	3	19th Century Restorations of Mimar Sinan's Mosques in Istanbul as Depicted in Ottoman Archival Documents	Pınar Sürmen Akin	Istanbul Technical University
09:45-10:00	8484	4	Documentation and Conservation Assessment of Adobe Structures in Ayanbey Neighbourhood, Konya	Şükran Oksoy	Istanbul Technical University

### T6-S12 Urban Design and Regional Planning (3/3) [Hall 5 | Wednesday 13 May 2026 | 11:00-12:00]

Chair: Prof. Dr. Şevkiye Şence Türk Co-Chair: Res. Asst. Hande Vural

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	8661	1	Discussions on Reconstruction and Authenticity in Urban Conservation Areas: A Comparative Evaluation of Applications in the Süleymaniye World Heritage Site and the Antakya Urban Conservation Area	Elif Yıldırım	Istanbul Technical University
11:15-11:30	8726	2	Çengelköy: Heritage Conservation Challenges	Saliha Ravza Ayhün	Istanbul Technical University
11:30-11:45	1176	3	ESG Disclosure and Financial Performance in Turkish REITs: Evidence from Panel Data	Naz Kızılkın	Istanbul Technical University
11:45-12:00	3810	4	Visual Landscape Quality Analysis of Water Elements in Bursa Through Archival Photographs	Sude Özdemir Ülker	Istanbul Technical University

### T6-S13 Landscape, Real Estate and Building Technologies (1/1) [Hall 5 | Wednesday 13 May 2026 | 12:00-13:00]

Chair: Assoc. Prof. Dr. Bilal Tütüncü Co-Chair: Res. Asst. Hande Vural

Time	Abs No	Order	Paper Title	Presenter	Institution
12:00-12:15	4136	1	The Asymmetric Effects of Monetary Policy on European Housing Markets: Evidence from the 2022 Interest Rate Shock	Hüseyin Sevim	Istanbul Technical University
12:15-12:30	5667	2	Assessment of thermal performance through measurements in hot climate regions: The case of Medina, Saudi Arabia	Abdullah Alrachid	Istanbul Technical University
12:30-12:45	5704	3	Developing Urban-Scale Circularity Principles: A Cross-Scale Analysis in the Circular Economy	İrem Nur Yener	Istanbul Technical University
12:45-13:00	6402	4	Location Selection for Serviced Apartments in Istanbul using MCDM Methods	Fulya Ersoy Yaşar	Istanbul Technical University

## Track T7 | Maritime, Industrial, Business and Humanities and Arts — Online

### T7-S01 Business Administration and Industrial Engineering (1/6) [Hall 6 | Monday 11 May 2026 | 11:00-12:00]

Chair: Assoc. Prof. Dr. Çiğdem Altın Gümüüşoy Co-Chair: Res. Asst. Tuğba Yıldız

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	1521	1	Out of Sight, Not Out of Mind: May Brand Activism Morally Restore Hedonic Consumption Restraint under Survivor Guilt?	Aleyna Kütük	Istanbul Technical University
11:15-11:30	1727	2	An Improved Revenue Forecasting Model for Aviation using Social Media Data	Zeynep Uzar Bayezit	Istanbul Technical University
11:30-11:45	1743	3	A New Alternative Financing Model Recommendation for Türkiye: Revenue-Based Crowdfunding	Mehmet Fatih Çiftçi	Istanbul Technical University
11:45-12:00	2533	4	The Impact of Role Ambiguity on Employee Motivation in Hybrid Projects: A Study in the Banking Sector	Hüseyin Berkay Horlu	Istanbul Technical University

### T7-S02 Business Administration and Industrial Engineering (2/6) [Hall 6 | Monday 11 May 2026 | 14:00-15:00]

Chair: Dr. Kenan Mengüç Co-Chair: Res. Asst. Tuğba Yıldız

Time	Abs No	Order	Paper Title	Presenter	Institution
14:00-14:15	3278	1	Political-Economic Mechanisms of Women's Organisational Exclusion in Turkish Context	Hümeyra Nur Hatipoğlu	Istanbul Technical University
14:15-14:30	3558	2	The Impact of Free Public Transport on Elderly Mobility, Healthcare Access, and Mental Health: A Regression Discontinuity Analysis	Ferhanur Sahin	Istanbul Technical University
14:30-14:45	3684	3	An Intuitionistic Fuzzy Marcos Approach for IT Personnel Selection with Human-AI Collaboration Criterion	Şengül Timuray	Istanbul Technical University
14:45-15:00	3937	4	Understanding the Drivers of Sharing Economy Use: A Conceptual Structural Equation Modeling Framework	İlayda Şahin	Istanbul Technical University

### T7-S03 Business Administration and Industrial Engineering (3/6) [Hall 6 | Monday 11 May 2026 | 15:00-16:00]

Chair: Dr. Kenan Mengüç Co-Chair: Res. Asst. Tuğba Yıldız

Time	Abs No	Order	Paper Title	Presenter	Institution
15:00-15:15	4187	1	Working Capital as a Transmission Mechanism from Macro-Financial Shocks to the Labor Share: Firm-Level Evidence from Turkey	Muhammed Akif Dokumacı	Istanbul Technical University
15:15-15:30	4593	2	Distributionally Robust Lawyer Allocation for Legal Recovery of Non-Performing Loans	Buse Şenvardar	Istanbul Technical University
15:30-15:45	5920	3	Agent-Based AI for Automated Decision Support in Student Administration	Gamze Akman Acar	Istanbul Technical University
15:45-16:00	6951	4	The Effect of Distance Learning during the COVID-19 Pandemic on Student Achievement in Turkey	Onur Alper	Istanbul Technical University

### T7-S04 Business Administration and Industrial Engineering (4/6) [Hall 6 | Monday 11 May 2026 | 16:15-17:15]

Chair: Dr. Kenan Mengüç Co-Chair: Res. Asst. Tuğba Yıldız

Time	Abs No	Order	Paper Title	Presenter	Institution
16:15-16:30	7371	1	Media Framing of Gender Discourse in Working Life in Turkey (2010-2025)	Gamze Baytekin	Istanbul Technical University
16:30-16:45	7431	2	Improving The Performance of Defense Industry Office Processes Using Lean Management Techniques	Kübra Koçak	Istanbul Technical University
16:45-17:00	7542	3	Combination and Aggregation Approaches for Intermittent Demand Forecasting	Arda Odabaş	Istanbul Technical University
17:00-17:15	7572	4	Data-Driven Classification of Garment Types in Washing Machines via Machine Learning	Şule Ceylan	Istanbul Technical University

### T7-S05 Business Administration and Industrial Engineering (5/6) [Hall 6 | Tuesday 12 May 2026 | 09:00-10:00]

Chair: Dr. Tuğberk Tunçinan Co-Chair: Res. Asst. Hande Vural

Time	Abs No	Order	Paper Title	Presenter	Institution
09:00-09:15	7602	1	Short-Term Day-Ahead Electricity Price Forecasting in the Turkish Power Market Using Statistical and Machine Learning Algorithms	Cemre Nur Güngör	Istanbul Technical University
09:15-09:30	8269	2	Developing a Project Management 5.0 Maturity Model for AI-Supported Project Environments	Bayram Aytuğ Gölyeri	Istanbul Technical University
09:30-09:45	8529	3	The Impact of Leaders' Managerial Behaviors on Employee Motivation and Turnover Intention: An Examination of the Turkish Defense Industry	Mehmet Fatih İncehasan	Istanbul Technical University
09:45-10:00	9192	4	Access To Dependency: An Analysis Of Platform-Mediated Exporting	Aysu Keser Mol	Istanbul Technical University

### T7-S06 Business Administration and Industrial Engineering (6/6) [Hall 6 | Tuesday 12 May 2026 | 11:00-12:00]

Chair: Assoc. Prof. Dr. Gaye Karaçay Aydın Co-Chair: Res. Asst. Hande Vural

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	9478	1	An Agent-Based Framework for Systematic Generative Feature Engineering in Financial Markets	Mustafa Enes Karaman	Istanbul Technical University
11:15-11:30	9962	2	The Impact of Profitability Enhancement Strategies on Financial Performance and Corporate Valuation in the Automotive Industry	Tunahan Haldız	Istanbul Technical University
11:30-11:45	1734	3	An Arts-Based Approach for Enhancing Non-Designers' Participation in Co-Creation	Merve Zeynep Sarıkaya	Istanbul Technical University
11:45-12:00	4024	4	Investigation of Hobby Drone Users Experiences through Experience-Based Design Research (EBDR)	Tuğçe Bayram	Istanbul Technical University

### T7-S07 Industrial Design (1/3) [Hall 6 | Tuesday 12 May 2026 | 12:00-13:00]

Chair: Assoc. Prof. Dr. Özge Çelikoğlu Co-Chair: Res. Asst. Hande Vural

Time	Abs No	Order	Paper Title	Presenter	Institution
12:00-12:15	4145	1	Perceived Benefits and Barriers of Mixed Reality in Product Design Workflows: A Survey Study	Fateh Isgandarov	Istanbul Technical University

## Track T7 | Maritime, Industrial, Business and Humanities and Arts — Online

12:15-12:30	4195	2	Digital Applications as Meaningful Artifacts: Exploring the Experience of Users Aged 65+	Elif Şimal Göver	Istanbul Technical University
12:30-12:45	6349	3	Exploring Hedonic Expectations In Utilitarian Product Concepts Through Anticipated User Experience	Ayşe Nilay Anıl	Istanbul Technical University
12:45-13:00	6967	4	Exploring Autonomous Aerial Vehicle-Supported Welfare Scenarios for Istanbul's Street Cats: A Design Fiction Application for Multispecies Coexistence	Emrah YILMAZ	Istanbul Technical University

### T7-S08 Industrial Design (2/3) [Hall 6 | Tuesday 12 May 2026 | 14:00-15:00]

Chair: Prof. Dr. Başar Öztayşi Co-Chair: Res. Asst. Hande Vural

Time	Abs No	Order	Paper Title	Presenter	Institution
14:00-14:15	7636	1	Positioning Artificial Intelligence as a Design Actor: Examining Designer-AI Collaboration in UX/UI Design Processes	E. Gülnur Üstün Özcan	Istanbul Technical University
14:15-14:30	8057	2	Exploring Mental Well-being in Doctoral Design Education: A Conceptual Review of Challenges and Disciplinary Needs	Miray Hamarat Dündar	Istanbul Technical University
14:30-14:45	8401	3	Comparative Analysis of User Research Focuses for Innovative Product Design: A Study with Five Different Perspectives	CEYLAN ŞAHİN	Istanbul Ticaret University
14:45-15:00	9175	4	Autoethnography in Designer-Maker Practice: A Pilot Study of Contemporary Jewelry Making	Nazire Öykü Kaya	Istanbul Technical University

### T7-S09 Industrial Design (3/3) [Hall 6 | Tuesday 12 May 2026 | 15:00-16:00]

Chair: Prof. Dr. Başar Öztayşi Co-Chair: Res. Asst. Hande Vural

Time	Abs No	Order	Paper Title	Presenter	Institution
15:00-15:15	9531	1	Fostering Sustainable Consumption in Home Appliance Retail Stores: A Co-design Workshop with Industry Professionals	Şeyma Yıldırım	Istanbul Technical University
15:15-15:30	9632	2	Material as a Driver of Circular Design Strategies: Insights from the Literature	Seyda Senay Elmas	Istanbul Technical University
15:30-15:45	1419	3	Carbon Pricing in Maritime Transport: EU ETS Cost Implications for the Turkish-Flagged Fleet	ÖZLEM MULUN AKPINAR	Istanbul Technical University
15:45-16:00	1647	4	A Multi-Criteria Evaluation of Offshore Wind Farm Installation Methods: A Case Study in the Çanakkale Region, Türkiye	Ömer Kaplan	Istanbul Technical University

### T7-S10 Maritime and Shipbuilding (1/3) [Hall 6 | Tuesday 12 May 2026 | 16:15-17:15]

Chair: Assis.Prof.Dr. Serdar Aytekin Köroğlu Co-Chair: Res. Asst. Hande Vural

Time	Abs No	Order	Paper Title	Presenter	Institution
16:15-16:30	1847	1	Artificial Intelligence and Autonomy in Maritime Transport: IMO Regulations and Liability Law	Hazal Akyürek	Istanbul Technical University
16:30-16:45	2175	2	Lateral Accelerations and Loads Acting on Container Lashing Systems in a Container Ship	Fatih Tuncay Kolçak	Istanbul Technical University
16:45-17:00	2762	3	Site-Specific Coupled Dynamic Analysis and Performance Assessment of Floating Offshore Wind Turbines (FOWTs) Under Black Sea Conditions	Huseyn Hasanzade	Istanbul Technical University
17:00-17:15	3840	4	A Feedforward Control Method For Ships With Controllable Pitch Propellers	Muhammad Hamza Shahid	Istanbul Technical University

### T7-S11 Maritime and Shipbuilding (2/3) [Hall 6 | Wednesday 13 May 2026 | 09:00-10:00]

Chair: Prof. Dr. Ahmet Ergin Co-Chair: Res. Asst. Tuğba Yıldız

Time	Abs No	Order	Paper Title	Presenter	Institution
09:00-09:15	4343	1	Towards a Complex-Systems Second Phase of the Maritime Security Matrix: A Systems Dynamics and Fuzzy MCDM Approach to Inter-Pillar Modelling	Mehmet Cengiz Ekren	Istanbul Technical University
09:15-09:30	4444	2	Julia-based Numerical Implementation of a Moving Pressure-driven Boussinesq Wave Model	Omar Batt	Istanbul Technical University
09:30-09:45	5052	3	Evolving Maritime Security- A Three Dimensional Approach to the Maritime Security Matrix	Mehmet Cengiz Ekren	Istanbul Technical University
09:45-10:00	7841	4	Numerical investigation of heave and pitch damping in spar buoys with multiple damping geometries	Murtala Nyako Musa	Istanbul Technical University

### T7-S12 Maritime and Shipbuilding (3/3) [Hall 6 | Wednesday 13 May 2026 | 11:00-12:00]

Chair: Assis.Prof.Dr. Serdar Aytekin Köroğlu Co-Chair: Res. Asst. Berker Pandir

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	8329	1	Legal Framework for Alternative Marine Fuels: A Comparative Analysis of IMO Regulations and EU FuelEU Maritime Regulation	Ayşe Selcen Büyük	Marmara University
11:15-11:30	8921	2	Nonlinear Modeling and NDI-Based Lateral Control of a Supercavitating AUV	Ahmet Hakan Albayrak	Istanbul Technical University
11:30-11:45	9349	3	Hydrodynamic and Hydrostatic Investigation of the Effects of Metallic Foam as a Lightweight Material on the OC4 DeepCwind Semi-Submersible Platform	Tugba Karakaya	Istanbul Technical University
11:45-12:00	1026	4	A Brief Look Into Walter Murch's Approach to Film Sound	Serkan Köseoğlu	Istanbul Technical University

### T7-S13 Humanities, Social Sciences and Arts (1/4) [Hall 6 | Wednesday 13 May 2026 | 12:00-13:00]

Chair: Prof. Dr. Tuncay Zorlu Co-Chair: Dr. Ayca Kızılkaya

Time	Abs No	Order	Paper Title	Presenter	Institution
12:00-12:15	1757	1	Black-Box Modeling of Immersive Reverberation with Generative Artificial Intelligence Models	Yavuz Buruk	Istanbul Technical University
12:15-12:30	3263	2	Sabâ Expression in the Gazel Performances of Hamiyet Yüceses	Enes Çıbukçu	Istanbul Technical University
12:30-12:45	3571	3	Five Different Worlds: An Experiment in Electronic Sound Perception in Improvising Musicians	Vladimir Seletskii	Istanbul Technical University
12:45-13:00	3596	4	Automated Difficulty Evaluation of Bassoon Scores	Ali Rıza SARAL	Istanbul Technical University

**Track T7 | Maritime, Industrial, Business and Humanities and Arts — Online**

**T7-S14 Humanities, Social Sciences and Arts (2/4) [Hall 6 | Wednesday 13 May 2026 | 13:00-14:00]**

Chair: Prof. Dr. Tuncay Zorlu Co-Chair: Res. Asst. Hande Vural

Time	Abs No	Order	Paper Title	Presenter	Institution
13:00-13:15	3784	1	Three Sisters in Turkish Music: An Examination of Vocal Performance Characteristics Through Three Selected Pieces from the Existing Recordings of Lale, Nerkis and Belkis Hanım	Berk Özçam	Istanbul Technical University
13:15-13:30	4375	2	The Effect Of Different Bracing Systems On The Timbre Of The Turkish Oud	Mehmet Haşim Açınal	Istanbul Technical University
13:30-13:45	5194	3	Real-Time Generative Sound Design: Reshaping User Experience in Virtual Spaces	Beste Öztürk	Istanbul Technical University
13:45-14:00	5992	4	A Technical Comparison of Various Capturing Technologies for Tube Guitar Amplifiers for Both Performer and Listener Perspectives	Ekin Can Kollu	Istanbul Technical University

**T7-S15 Humanities, Social Sciences and Arts (3/4) [Hall 5 | Wednesday 13 May 2026 | 13:00-14:00]**

Chair: Prof. Dr. Aytekin Çökelez Co-Chair: Res. Asst. Hatice Tuğba Karayama

Time	Abs No	Order	Paper Title	Presenter	Institution
13:00-13:15	6637	1	Organized Visibility and Audience Investment in Reality Music Competitions: The Case of Produce 101 Season 2	Gizem Kurt	Istanbul Technical University
13:15-13:30	6933	2	A Thematic Analysis of Mor Ve Ötes'i's Lyrics	Buşem Göksu Altinel	Istanbul Technical University
13:30-13:45	7070	3	Cyborg Doctors and the Sonic Ecology of the Emergency Department	İdil Kocabozdoğan	Istanbul Technical University
13:45-14:00	7727	4	Challenges And Strategies For Reviving The Santur In Turkey: A Sociological Analysis	MOHAMMAD REZA NADERMANESH	Istanbul Technical University

**T7-S17 Humanities, Social Sciences and Arts (4/4) [Hall 1 | Wednesday 13 May 2026 | 12:00-13:00]**

Chair: Assis.Prof.Dr. Emmanouil Ekmektsoglou Co-Chair: Res. Asst. Berker Pandir

Time	Abs No	Order	Paper Title	Presenter	Institution
12:00-12:15	7891	1	Serialism Beyond Dodecaphony: Serial Thinking In The Early American Minimalist Music	Orhan Torun	Istanbul Technical University
12:15-12:30	8001	2	The Application of Brahms' Developing Variation Technique on the Finale (Passacaglia) of 4th Symphony	Can Dilekçi	Istanbul Technical University
12:30-12:45	9907	3	Shining Through Time: Jazz Singer Nûkhet Ruacan's 1998 Live Performance Revived in the 2025 Album "Annem Nûkhet Ruacan"	Aysen Zulfikar	Istanbul Technical University
12:45-13:00	2053	4	Politics Of Global Environmental Governance: The Case Of Carbon Emissions Regulation In Maritime Trade	Nilden Say	Istanbul Technical University

**T7-S18 Music and Sonic Arts (1/1) [Hall 1 | Wednesday 13 May 2026 | 13:00-14:00]**

Chair: Prof. Dr. Zeynep Kuban Tokgöz Co-Chair: Res. Asst. Ahmet Yazıcı

Time	Abs No	Order	Paper Title	Presenter	Institution
13:00-13:15	2738	1	İlhan Koman: Geometry in Sculpture Art from Plane to Volume	Mustafa Deniz Türkoğlu	Doğuş University
13:15-13:30	3290	2	Detours: Production of Aphasia	Alhareth Mohamed	Istanbul Technical University
13:30-13:45	3672	3	Fluid Dynamics of Tragedy: A Retrospective Bio-Mathematical Analysis of the Four Humors in Shakespeare's Lady Macbeth and Uşaklıgil's Bihter Ziyagil	Mustafa Deniz Türkoğlu	Doğuş University
13:45-14:00	4219	4	Climate Change Communication in Schools: How Teachers Shape the Educational Landscape	Betül Sena Öztürk	Istanbul Technical University

## Track T8 | Hybrid Sessions Detail — Online

### H1 Applied Mechanics and Acoustics [Code: T8-S01 | Hall 3 | Wednesday 13 May 2026 | 09:00-10:00]

Chair: Assoc. Prof. Dr. Uğurcan Eroğlu Co-Chair: Res. Asst. Hatice Şeyma Selbesoğlu

Time	Abs No	Order	Paper Title	Presenter	Institution
09:00-09:15	4831	1	Evaluating the effect of gap on optical performance of a thermal imaging system	Hakan Fidan	Istanbul Technical University
09:15-09:30	7335	2	Study Of Chamber-Case Interaction Effects On Case Rupture In 25×137 Mm Steel Cartridge Cases	Önder Sarıkaya	Istanbul Technical University
09:30-09:45	8097	3	Identification of Structural Damage in Beams Using Analytical Modal Curvatures and Acoustic Beamforming	Syed Majid Naqash	Istanbul Technical University
09:45-10:00	8593	4	A Study On The Acoustic Investigation Of The Underwater Test Tank	Mehmet Ali KAPLAN	Istanbul Technical University

### H2 Political Philosophy and Social Sciences [Code: T8-S02 | Hall 3 | Wednesday 13 May 2026 | 13:00-14:00]

Chair: Assoc. Prof. Dr. Aslı Çalkıvık Co-Chair: Dr. Melis Toker Derdiyok

Time	Abs No	Order	Paper Title	Presenter	Institution
13:00-13:15	6283	1	The Internal Structure of the Republican Party in the Pre-Trump Period	Ceren Bakkal	Kadir Has University
13:15-13:30	7969	2	Engineering the Republic: From Kondüktör Mekteb-i Âlisi to Yıldız Technical University	Furkan Sarier	Istanbul Technical University
13:30-13:45	8697	3	Empathy in the context of Democratic Legitimacy	Mustafa Nurkan Bitlisi	Istanbul Technical University
13:45-14:00	8945	4	Normative Reasons and Political Moralism	Agit Utkan	Istanbul Technical University

### H3 Sustainability and Built Environment [Code: T8-S03 | Hall 3 | Wednesday 13 May 2026 | 11:00-12:00]

Chair: Prof. Dr. Nilgün Baydoğan Co-Chair: Dr. Melis Toker Derdiyok

Time	Abs No	Order	Paper Title	Presenter	Institution
11:00-11:15	8663	1	Urban Growth and Office Market Transformation in Istanbul: How Evolving Typologies Shape City Dynamics and Real Estate Value	Irmak Çırakoğlu	Istanbul Technical University
11:15-11:30	8691	2	Ankara İlinde Örnek Bir Konut Yapısının Yağmur Suyu Hasadı Potansiyelinin Mevcut ve Gelecek İklim Koşulları Altında Değerlendirilmesi	Cansu ÖZTÜRK	Istanbul Technical University
11:30-11:45	9906	3	Ultrasound-Assisted Production and Optimization of Bioactive Peptides from Agricultural By-Products	Duygu Gökçen	Istanbul Technical University

### H4 Theoretical Sciences and Performance Arts [Code: T8-S04 | Hall 3 | Wednesday 13 May 2026 | 12:00-13:00]

Chair: Prof. Dr. Zeynep Gonca Girgin Co-Chair: Dr. Melis Toker Derdiyok

Time	Abs No	Order	Paper Title	Presenter	Institution
12:00-12:15	9279	1	Ultra-dilute Quantum Droplets	Mert Şulam	Istanbul Technical University
12:15-12:30	9559	2	Sign Transition in Dark Energy Density from Interactions	Mevhibe Dilara Pütkül	Istanbul Technical University
12:30-12:45	5412	3	Embodied Authorship and Invisible Labor: Task-Based Choreography in {She Wove Her Name}	Seyede Moozhan Ayatollahi	Istanbul Technical University