

INTERNATIONAL MARMARA SCIENCES CONGRESS
IMASCON 2026 SPRING
8 MAY 2026 FRIDAY**The Start of Registration Process 10:00****AÇILIŞ KONUŞMALARI - OPENING SPEECHES 10:15****Mimarlık ve Tasarım Fakültesi Konferans Salonu Anıtpark Yerleşkesi**
Faculty of Architecture and Design Conference Hall Anıtpark Campus

- İstiklal Marşı ve Saygı Duruşu / National Anthem and Moment of Silence
- Kocaeli Üniversitesi Tanıtım Filmi / Short Film of Kocaeli University
- Prof. Dr. Öznur GÖKKAYA, President of Imascon Congress
- Prof. Dr. Arif ÖZKAN, Manager of Continuing Education Research and Application Center, Kocaeli University
- Prof. Dr. Elif ÖGÜT, Vice Rector of Kocaeli University

OPENING SESSION: INSTITUTIONAL AND THEORETICAL SUSTAINABILITY 10:45

Chairman: Prof. Dr. Arif ÖZKAN, Kocaeli University, Türkiye

- Prof. Dr. Serdar BOZKURT Yıldız Technical University
- Güven ÇÖMEZOĞLU YED Enerji Dönüşüm Teknolojileri AŞ
- Mustafa DOĞAN Deputy Director of Kocaeli Provincial National Education Directorate

IMASCON PANELS**IMASCON 2026 SPRING****BIOMEDICAL APPLICATIONS AND ENGINEERING INNOVATIONS – 15:30 / 16:30**

<https://tinyurl.com/2zyhf28x>

Session Chair:

Prof. Dr. Arif ÖZKAN, Kocaeli University, Türkiye and

Prof. Dr. Luis M. F. ROSEIRO, Polytechnic University of Coimbra Portugal

- Prof. Dr. Michael Wendland, Westfälische Hochschule, Germany
- PhD (C) Maria LUÍS, Polytechnic University of Coimbra Portugal
- PhD (C) Vítor Miguel SANTOS, Polytechnic University of Coimbra Portugal
- PhD (C) Sara VELVEZ, Polytechnic University of Coimbra Portugal
- PhD (C) Joana Filipa HENRIQUES, Polytechnic University of Coimbra Portugal
- PhD (C) Ayberk DİZDAR, Kocaeli University, Türkiye
- Dr. Çağatay TAŞDEMİRCİ Anglia Ruskin University (ARU), United Kingdom

IMASCON PANEL – DIGITAL TRANSFORMATION- 16:00 / 17:00

Chairman: Prof. Lecturer Dr. Mustafa OF, Kocaeli University, Türkiye

- Prof. Dr. Flora Merko, Albania
- Prof. Dr. Ludmyla Symockho, Ukraine
- Prof. Dr. Mahiboobsab Ahmedhusen Nagarbawadi, India
- Assist. Prof. Dr. Kesiuke Wakisaka, Japan
- Assist. Prof. Dr. Nursultan Abdimalip Uulu, Kyrgyzstan

8 MAY 2026 FRIDAY**ORAL (FACE to FACE) PRESENTATIONS**

8 MAY 2026 FRIDAY	SESSION 1	14:00 – 15:45
IMASCON 2026 SPRING SESSION 1.1 / 14:00 – 15:45	Hall : 1 (Brunga)	8 MAY 2026 FRIDAY
SESSION CHAIR : BETÜL KOÇYİĞİT		
EZGİ ÖZDEMİR	New-Generation Metal Forming Lubricants: Volatile Oil Technology	
BETÜL KOÇYİĞİT	Synthesis And Characterization Of Functionalized Calixarene Derivatives	
PELİN ERDOĞAN	Improvement Of Air Permeability And Crack Resistance Properties Of Inner Liner Compounds Used In Truck And Bus Tires	
GİZEM ŞARİ	Enhancing Tamoxifen Activity: Anticancer Potential Of Forsythia Europaea In MCF-7 Cells	
TAKVA DARVISH	Advanced Polymer-Based Nanofiber Wound Dressing For Wound Healing With Plant Extract Integration.	
Dr. AYSEN ORHAN ERKOVAN	Synthesis of a New Silver-Based Coordination Polymer via Liquid-Liquid Diffusion Method and Its Spectroscopic Characterization	
8 MAY 2026 FRIDAY ORAL (FACE to FACE) PRESENTATIONS		
8 MAY 2026 FRIDAY	SESSION 2	16:00 – 17:45
IMASCON 2026 SPRING SESSION 2.1 / 14:00 – 15:45	Hall : 2 (Kutluca)	8 MAY 2026 FRIDAY
SESSION CHAIR : GÜLHİS DUYGUN		
GÜLHİS DUYGUN	The Impact of the Digital Visibility Economy on Spatial Experience	
GÜLHİS DUYGUN	The Transformation of Spatial Experience Through Digital Technologies	
ORHUN İNCE	Examining the Rehabilitative Effect of Temporary Shelter Units After Disasters on Disaster Victims	
ORHUN İNCE	An Examination of Post-Disaster Permanent Housing Development Settlements through Biophilic Design Principles	
MENŞURE ÖZYURT	A Systematic Analysis of Factors Influencing Change and Transformation in Rural Areas, Emerging Issues, and Proposed Solutions	
ELİF KURT ARSLAN	Spatial And Sociological Analysis Of Rural Women’s Cooperatives As Threshold Spaces Based On Threshold Space Criteria	
IMASCON 2026 SPRING SESSION 2.2 / 14:00 – 15:45	Hall : 3 (Nikomedya)	16:00 – 17:45 8 MAY 2026 FRIDAY
SESSION CHAIR : Prof.Dr. VİLDAN ÇETKİN		
Prof.Dr. VİLDAN ÇETKİN	Some Results on Parameterized Degree of Convexity	
YASEMİN KARS	On Coefficient Problems For A Genocchi Polynomial–Defined	

	Univalent Function Class	
YASEMİN KARS	Coefficient Bounds For A Bi-Univalent Function Class Involving The Sălăgean Differential Operator And Fibonacci Numbers	
ELMAR GASIMOV	Dangerous Goods Management and Compliance Processes in Air Cargo Transportation	
BATUHAN IŞIK	Computational Nanomechanical Analysis of Glioblastoma Cells Using Experimental Atomic Force Microscopy Data	
IMASCON 2026 SPRING SESSION 2.2 / 16:00 – 17:45	Hall : 1 (Burunga)	16:00 – 17:45 8 MAY 2026 FRIDAY
SESSION CHAIR : Dr. YUSUF CAN DEMİR		
Dr. YUSUF CAN DEMİR	The Impact Of Global Warming On Annual Average Temperature Increases Globally And In TÜRKİYE	
UGUR KACAR	Investigation of the Effects of Fly Ash Fineness Used as a Cement Replacement on Concrete Performance	
SEMRA YAŞAR ÇIRAK	Effect of Current Density and pH on Chloride-Mediated Electrooxidation of Paracetamol Using a Boron-Doped Diamond Anode	
ŞEYDA ŞİKKİBAR	Technology In Preschool Education: A Systematic Review Of Master's Theses From 2019 To 2024	
ABOUBAKAR TRAORE	Recycling of Marine Dredged Sediments in Cement-Based Construction Materials	
IMASCON 2026 SPRING SESSION 2.2 / 16:00 – 17:45	Hall : 2 (Kutluca)	16:00 – 17:45 8 MAY 2026 FRIDAY
SESSION CHAIR : NEVRİZ YÜKSEL POLAT		
NEVRİZ YÜKSEL POLAT	Evaluation Of Material Selection In Ultrasonic Horns Based On Critical Performance Parameters	
VINCENT OGUEGBU	Design and Experimental Validation of a 65 V / 50 A DC Motor Driver with Active Bus Voltage Limiting and Adaptive Thermal Management for 24 V Industrial Platforms	
TUNA KARATEKELİ	Modeling, Simulation And Control Of A Scara Robot System Based On Kinematic Analysis And Trajectory Planning	
ALPHA HADJİ MANSARE	Robust Visual-Inertial Navigation And Control In Underwater Environments: A Multi-Modal Framework Based On Yolov8, Ibvs And Ekf	
KEMAL ALTUNTAŞ	Influence Of Shielding Gas Composition On Penetration Depth And Weld Geometry In Gmaw	
IMASCON 2026 SPRING SESSION 2.2 / 16:00 – 17:45	Hall : 3 (Nikomedyä)	16:00 – 17:45 8 MAY 2026 FRIDAY
SESSION CHAIR : ÇAĞATAY BAŞGÜL		
ÇAĞATAY BAŞGÜL	The Effect Of Thermal Insulation Materials On Energy Loss Reduction In Industrial Systems: A Case Study On A Tire Press Line	
ÇAĞATAY BAŞGÜL	Technological Transformation From Screw Compressor To Turbo	

	Compressor And Energy Efficiency Analysis	
SERDAR TOPUZ	Usability Analysis Of The Pardus Operating System: A Study Based On SUS And Task-Based User Testing	
NECATİ ÇOBAN	Design And Techno-Economic Analysis Of A Biomass-ORC And Photovoltaic Hybrid Energy System For An Industrial Facility	
FATİH İSEN	Hybrid System Design For The Energy Needs Of Karasu District	
IMASCON 2026 SPRING SESSION 2.2 / 16:00 – 17:45	Hall : 3 (Nikomedyia)	16:00 – 17:45 8 MAY 2026 FRIDAY
SESSION CHAIR : Assoc.Prof.Dr. ÖMER GÜNGÖR		
Assist Prof. Dr. Asmae BOUZIANI	Smartphone-Based Color Detection Apps for Analytical and Environmental Monitoring	
Assist. Prof. Dr. Asmae BOUZIANI	Surface Modification of HKUST-1 for Enhanced Dye-Adsorbent Interactions	
Assist. Prof. Dr. Haifa BEN AZİZA	Multifunctional Phthalocyanine-Based Biofilms for Anticancer Applications	
Assist. Prof. Dr. Haifa BEN AZİZA	Synthesis and Antibacterial Evaluation of Novel Coumarin-Functionalized Polyacrylamide (PAM) Cryogels for Biomedical Applications	
ELİF CESARET	Synthesis, Characterization, And Investigation Of Drug Release Properties Of Polymeric Carriers For Antineoplastic Agents	
ONLINE PRESENTATIONS 9 MAY 2026 SATURDAY		
ONLINE PRESENTATIONS		
IMASCON 2026 SPRING SESSION 1.2 / 10:00 – 11:15	Hall : 1	9 MAY 2026
https://tinyurl.com/46ywk7dd		
SESSION CHAIR : TUBA ŞİMŞEK		
TUBA ŞİMŞEK	Development of a Domestic Low-Foam Alkali Cleaning Product for CIP Systems	
Batuhan Yetim	Hybrid Molecule Design for Proteasome Inhibition and Computational Evaluation	
BERFİN KELAHEMETOĞLU	Synthesis and Investigation of the Photophysical Properties of Indan-1-one-Based Donor- π -Acceptor Compounds	
BENGÜ SEMA MUTAFOĞLU	Investigation of Novel Caspase-1 Inhibitors for the Treatment of Inflammatory Diseases Employing in Silico and in Vitro Methodology	
AHSEN ALBAŞ	Simultaneous Electrochemical Determination of Dopamine, Uric Acid, and Ascorbic Acid Using Modified Glassy Carbon Electrode	
Memduh İlter TAPU	Performance Analysis Of Flame Retardants, With And Without	

	Heavy Metals, Used In Textile Products.	
Discussion		
IMASCON 2026 SPRING SESSION 1.2. 10:00 – 11:15	Hall : 2	9 MAY 2026
https://tinyurl.com/4vvekaaw		
SESSION CHAIR : Assoc.Prof.Dr. TALİP ÇELİK		
Assoc.Prof.Dr. Talip Çelik	Finite Element Mesh Convergence Analysis Of A Femoral Model Under Combined Loading	
Assoc.Prof.Dr. Talip Çelik	Safety In Future Mobility: The Revolution Of Artificial Intelligence And Digital Twin In Vehicle Damage Analysis	
SARA VALVEZ	Geometry-driven design of re-entrant structures for biomimetic left atrial appendage cardiac tissue	
RANA ÖZGÜÇ	ResNet-50 Based Classification of Diabetic Retinopathy Using Image Processing Techniques	
JOANA FİLİPA HENRİQUES	Chemical vs Physical Disinfection of Polymeric Components Obtained Through Additive Manufacturing	
UFUK TAŞTAN	In Silico Investigation of Potential Toxic Effects of Certain Chemicals Used in the Cosmetics Manufacturing Sector on Occupational Health	
HASAN DOĞRUDAĞ	Investigation of the Usability of Artificial Intelligence and Machine Learning in Threat Prediction in the Defense Industry	
IMASCON 2026 SPRING SESSION 1.3. 10:00 – 11:15	Hall : 3	9 MAY 2026
https://tinyurl.com/3w3d9775		
SESSION CHAIR : Dr. MERVE YILMAZER		
Dr. MERVE YILMAZER	Effects of Vitamin B6 on Glucose Metabolism	
GONCHA AGHAZADA	In Silico Investigation Of Rosmarinic Acid-Mediated Modulation Of Redox Systems In Glioblastoma Cells	
NİĞMET DOĞAN	Characterization of the Chloroplast Genome of Eleutherospermum cicutarium Using Next-Generation Sequencing Technology and Investigation of Its Genetic Diversity	
GİZEM GÜL	Determination of the Antioxidant Activity of Pterogonium gracile (Hedw.) Sm. Extracts Using the CUPRAC Method	
BERİL YEŞİLOVA	Effects Of Mechanical Scarification And Hydropriming Treatments On In Vitro Seed Germination And Organ Development In Centaurea Kilaea Boiss.	
MARİA LUİS	Assessment Of Micromovements And Surface Deformations Of Implants Subjected To Immediate Loading: An Ex Vivo Study	
IMASCON 2026 SPRING SESSION 1.2. 11:30 – 12:45	Hall : 1	9 MAY 2026
https://tinyurl.com/5hescfy6		

SESSION CHAIR : Zeynep SARI			
Zeynep SARI		Analyzing Genetic Algorithm Behavior On A Challenging And Fully Nonseparable Problem: The Case Of Cec 2013 F15	
HASİBE ALTUNTAŞ		A Data-Leakage-Free Approach to Diagnosing Parkinson’s Disease Using Vocal Biomarkers: The Hybrid KAN-GCN Model	
ZELİHA SEZGİN		The Effect Of Mobile Notifications On User Behavior And Digital Well-Being: A Survey Study	
ABDULLAH ALİ GÜN		AI-Based Printing Defect Detection in FDM/FFF 3D Printers	
YASAR AZİMİ		The Impact of LLM-Supported Search Tools on Decision Quality and Cognitive Biases: A Comparative Analysis	
NESLİHAN KARADENİZ		A YOLOv8-Based Image Processing Approach for Fault Detection in Automotive Fuse Boxes	
ONLINE PRESENTATIONS 9 MAY 2026 SATURDAY			
ONLINE PRESENTATIONS			
9 MAY 2026	SESSION 5	13:30 – 14:45	
IMASCON 2026 SPRING SESSION 1.4 / 11:30 – 12:45		Hall : 2	9 MAY 2026
https://tinyurl.com/yrf2xcrv			
SESSION CHAIR : Assoc.Prof.Dr. AHMET DEMİR			
Assoc.Prof.Dr. AHMET DEMİR		Organic Field-effect Transistors With An Anthocyanin Gate Dielectric Extracted From Düzce Black-rice Husk Waste	
İLKNUR ÇAVUŞOĞLU ZERENGÖK		Comparative Evaluation Of Nanoscintillators For X-ray Induced Photodynamic Therapy	
SEDANUR KIRCI		The Impact Of Ai Uncertainty On User Decisions And Trust	
ALPER DEMİR		Comparison Of Parameter-efficient Fine-tuning Methods For Vision Transformer Models In Medical Image Classification	
ALPER DEMİR		Convolutional Autoencoder And Chaotic Map-based Hybrid Image Encryption Method	
YİĞİT MALÇOK		Text-based Machine Learning For Price Prediction In Commercial Rose Arrangements	
IMASCON 2026 SPRING SESSION 1.4 / 11:30 – 12:45		Hall : 3	9 MAY 2026
https://tinyurl.com/5cecpust			
SESSION CHAIR : Prof.Lecturer.Dr. MUSTAFA OF			
Assoc.Prof.Dr. TOLGA ULAŞ GÜRBÜZ		A Nonlinear Inversion Approach Enhanced By A Recursive Formulation For Efficient Imaging In Arbitrarily Shaped Multilayer Cylinders2/12/	
Assoc.Prof.Dr. TOLGA ULAŞ GÜRBÜZ		On The Adaptation Of A Constrained Optimization Method For Bound-constrained Contrast Source Inversion	

Assoc.Prof.Dr. TOLGA ULAŞ GÜRBÜZ	A Recursive Eigenfunction Expansion Approach For Te Scattering By Arbitrary-shaped Multilayer Cylinders	
METİN ACAR	Dual-band Filtenna Design And Analysis For 5g And Wlan Applications	
EDA TUNÇ	Communication Systems In Unmanned Aerial Vehicles: Limitations Of Rf-based Architectures And A Vlc-based Alternative Approach	
MÜCAHİT ENGİN AKAR	Design And Optimization Of Phase Shifted Full Bridge Converter For Wide Input Voltage Range Applications	
IMASCON 2026 SPRING SESSION 1.4 / 13:00 – 14:45	Hall : 1	9 MAY 2026
https://tinyurl.com/kxmmtsuf		
SESSION CHAIR : HÜRKAN ÖLMEZ		
HÜRKAN ÖLMEZ	Energy Storage Technology Selection by Vehicle Category: A Comparative Review for Electric Vehicles, Hybrid Systems, and Electric Buses	
AHMET ALPEREN ALTUNDAL	Analysis Of Short Circuit Faults In The Distribution System And Evaluation Of Their Economic Impacts For A Sample Organized Industrial Zone.	
MELİKE ZÜBEYDE KALKAN	Fuzzy Mathematical Programming-Based Cpm: An Application İn The Defense Industry	
MEHMET KUTLU	Analysis Of A High-Voltage Bidirectional Lcl-T Rezonans Converter For Electric Vehicle Charging Systems	
İRFAN GÜVEN ÇÖMEZOĞLU	Artificial Intelligence-Assisted Battery Management System for Domestic Lithium-Ion Cells: Equivalent Circuit Modeling, State Estimation and Real-Time Simulation Platform	
ÖZGE İPEKDAL	An Algorithm for Distance Protection Based on Voltage Phase Angle Variation	
Abdurrahman Özırk	An Assessment of the Efficiency of Fixed-Orientation and Single-Axis Solar-Tracking Photovoltaic Systems under Kocaeli Climate Conditions	
IMASCON 2026 SPRING SESSION 1.4 / 13:00 – 14:45	Hall : 2	9 MAY 2026
https://tinyurl.com/5n62nzh6		
SESSION CHAIR : YASEMİN UZUNER		
YASEMİN UZUNER	Evaluation of Environmental Performance in Sustainable Port Management: A Life Cycle Assessment Approach	
ÇİSİL GÖKTAŞ	Exploratory Assessment of Meteorological Drivers and the Effects of Destructive Earthquakes on PM10 Variability in Türkiye (2010–2023)	
BAŞAK ARDA	Pixelmathx: Adaptive Mathematics Practice Model	
GÖNÜL AKIN	Local Perceptions of Istanbul Airport's Economic, Social, and Environmental Impacts: A Social Exchange Theory-Based Analysis of Online Reviews	

FİKRET KIR	The Impact Of Periodic Inspections On Fire Safety Culture In Türkiye	
HÜSEYİN UTKUCAN ÇETİN	An Analysis Of The Impact Of Cookie Banner Designs On User Decision-Making On Websites	
MEMDUH İLTER TAPU	Performance Analysis Of Flame Retardants, With And Without Heavy Metals, Used In Textile Products.	
IMASCON 2026 SPRING SESSION 1.4 / 13:00 – 14:45	Hall : 3	9 MAY 2026
https://tinyurl.com/59nu8ayu		
SESSION CHAIR : FURKAN BELLİBAŞ		
FURKAN BELLİBAŞ	Simulation-Assited Investigation Of The Cold Forging Manufacturability Of A Fastener With An Octagonal Head Geometry	
ARDA TURACI	Hypothesis-Driven Feature Engineering Reveals Arrhenius–Salt Interactions in Molten Salt Reactor Corrosion	
OĞUZHAN KARS	Support And Design Of High-Temperature Pipelines	
HANDE SAVRAN	Die Design and Finite Element Analysis for the Production of an AL7075 Aerospace Pin by Cold Forming	
Vitor Miguel Santos	Sensor Integration Strategy in Additively Manufactured Samples for Instrumented and Smart Insole Development	
HANDE SAVRAN	Die Analysis in the Forming of Internal Torx-Lobed Flat Head Bolt: A Comparison of A286 Stainless Steel and 20MnB4 Steel	
İSMAİL ÖZOLU	Thermodynamic Analysis of New Generation Refrigerants	
IMASCON 2026 SPRING SESSION 1.4 / 13:00 – 14:45	Hall : 4	9 MAY 2026
https://tinyurl.com/yw7jbubu		
SESSION CHAIR : ŞEVVAL MAYTA		
ŞEVVAL MAYTA	Development of Hot Forging Process and Microstructural Investigation of Ti-6Al-4V Aircraft Turbine Engine Blade Components	
RUBAINATU CHALPANG ADAM	Spatio-Temporal Modelling of Dust-Induced Rainfall Anomalies in Northern Ghana	
SEVGİ ALTINKÖK	Experimental Analysis Of Thermal Distribution And Cooling Characteristics In Photovoltaic-Thermoelectric Generator (Pv-Teg) Hybrid Systems	
SÜMEYRA KÖSE	Development and Characterization of Nanostructure-Reinforced Carboxymethyl Cellulose (CMC) Based Hybrid Polymeric Films	
HALİL KAYAK	The Role Of Critical Strategic Raw Materials In Electric Vehicle Batteries: Supply Chain Risks, Accessibility And Sustainability	
OZAN GÜNEY	Investigation of Temporal Deformation and Surface Roughness on Airport Runways Using Digital Elevation Models	
MEHMET KAYA	Investigation Of Pile Groups Under Strong Ground Motions With Different Arias Intensities Using Numerical Analyses	