



TICMET '25

The 6th International Conference of
Materials and Engineering Technology

6. Uluslararası Malzeme ve Mühendislik
Teknolojileri Konferansı



6-9 OCTOBER, 2025

GAZİANTEP UNIVERSITY
MÂVERA CONGRESS AND ART CENTER

GAZİANTEP - TÜRKİYE

BÜYÜKŞEHİR
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CONFERENCE OBJECTIVE

The main purpose of TICMET'25 is to present the latest research and results of scientists related to materials and engineering technologies. This conference provides different field delegates with opportunities to exchange new ideas and application experiences, build business or research relationships, and find global partners for future collaboration. After this science feast, your abstract/full texts will be published in conference book with ISBNs and will be brought to the world of science literature with open access and significant contributions will be made to the scientific field.

The 6th International Conference of Materials and Engineering Technology (TICMET'25) will be held on 06-09 October 2025 in partnership with Hasan Kalyoncu University, Gaziantep Islamic Science and Technology University and Gaziantep University.

The conference organizing committee is pleased to invite prospective authors to send their original texts to TICMET'25. All papers will be reviewed and evaluated by the referees in the field, based on their technical and/or research content depth, accuracy, relevance to the conference, contributions, and readability. Selected papers presented at the conference will be published in conference book as an abstract and then will be proposed for publication in one of the following journals:

- * **Journal of Sustainable Construction Materials and Technologies (JSCMT)** (TR Dizin)
- * **International Advanced Researches and Engineering Journal (IAREJ)** (TR Dizin)
- * **Journal of Advances in Manufacturing Engineering (JAME)** (TR Dizin)
- * **Turkish Journal of Electromechanics and Energy (TJOEE)**
- * **International Journal of Materials and Engineering Technologies (TIJMET)** (Dergipark)

I would like to thank all participants who presented papers at the TICMET 25 conference, all my colleagues who took part in the organization, and all our sponsors who provided financial support.

Best regards,

Prof. Dr. Necip Fazıl YILMAZ

Conference Chair

PROGRAM COMMITTEES

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Prof. Dr. Suleyman Can Kurnaz, Sakarya University – TR

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Dr. Mazhar Malik, University Of The West Of England - GB

Dr. Mirza Nadeem Baig, Pakistan Welding Institute - PK

Dr. Mohammad Ghaffar Faraj, Koya University - IQ

Dr. Peter Kay, University Of The West Of England - GB

Dr. Sabir Ghauri, University Of The West Of England - GB

Dr. Shahroz Sakhawat, Pakistan Welding Institute - PK

INVITED SPEAKERS



Invited Speaker

Prof. Dr. Muzaffer ŞEKER

**Turkish Academy of Sciences (TÜBA)
President**

Prof. Dr. Muzaffer ŞEKER completed his veterinary studies at Uludağ University and later earned his Ph.D. in Human Anatomy from the University of Leicester, UK. Over the course of his academic career, he held key positions including Head of the Department of Medical Education and Informatics at Selçuk University, founding rector of Konya University, and subsequently rector of Necmettin Erbakan University.

He has also served internationally, holding academic appointments in the United Arab Emirates. Prof. Şeker has played an influential role in national science and higher education policy through his memberships in the Turkish Academy of Sciences (TÜBA), the Scientific Board of TÜBİTAK, and various councils under YÖK and ÜAK. He contributed to the development of institutional and regional science strategies through his leadership roles in university associations, educational foundations, and health education commissions.

His involvement in national award committees—such as TÜSEB Aziz Sancar, TÜBA-GEBİP, and TÜBİTAK Science Awards—further reflects his commitment to scientific excellence. Representing Türkiye at high-level global science platforms such as the G20 S20 Summit and the World Science Forum, he has also maintained long-term engagement with professional societies in anatomy and basic medical sciences.

INVITED SPEAKERS



Invited Speaker

Prof. Dr. Muammer KOÇ

**Professor and Coordinator
Hamad Bin Khalifa University (HBKU)**

Prof. Dr. Muammer KOC, Prior to his appointment as a founding professor of sustainability at HBKU in 2014, Professor Koç held professor, director, chair and dean positions at different universities in Turkey and the USA between 2000-2014. He has a PhD degree in Industrial and Systems Engineering from the Ohio State University (1999) and an Executive MBA degree from the University of Sheffield, UK (2014). He has published 130+ publications in various international journals and conferences; edited three books; organized, chaired, and co-chaired various international conferences, workshops and seminars on design, manufacturing and product development.

In addition to his academic and educational activities, he provides consulting services to industry, government and educational institutes for strategic transformation, business optimization, organizational efficiency, lean operations, restructuring and reengineering initiatives. He has taught courses across a range of subjects, including product/process/business innovation and development; medical design and production; energy and efficiency; computer-aided engineering, design and manufacturing; modern manufacturing technologies; manufacturing system design; material forming plasticity; and the mechanical behavior of materials.

INVITED SPEAKERS



Invited Speaker

Prof. Dr. Zakaria BOUMERZOU

University Mohamed Khider of Biskra

Zakaria BOUMERZOU is a professor in the Department of Mechanical Engineering at the University of Biskra. He headed the Department of Mechanical Engineering from 1998 to 2004 and the Department of Metallurgy from 2004 to 2009. A professor at the University of Biskra from 1992 to the present, he has organized one international conference and 12 national conferences and workshops.

He is responsible for doctoral training in metallurgy. He has supervised more than 30 doctoral students. He has published more than 90 research articles, three books (Metallic Materials and Their Industrial Applications, Welding of Metallic Materials, Metal Wire Fabrication), two book chapters, and edited one book (Advanced Design and Mechanics of Materials) in the field of materials science. He holds a patent. He has led 10 national scientific projects and one international project with the University of Mons (Belgium).

He has been a member of the scientific committee of several international conferences. He has participated in more than fifty international conferences as a participant (with posters and oral presentations) and as an invited speaker.

INVITED SPEAKERS



Keynote Speaker

Prof. Dr. Mete KALYONCU

Konya Technical University

Prof. Dr. Mete KALYONCU is a faculty member at the Department of Mechanical Engineering, Konya Technical University, with a research background in mechanical vibrations, system dynamics, mechanism design, control systems, robotics, and artificial intelligence-based optimization methods. He received his Ph.D. in Mechanical Engineering from Selçuk University in 1998 and later conducted postdoctoral research at Cardiff University in the United Kingdom.

Throughout his career, he has authored numerous national and international publications, supervised dozens of graduate theses, and managed or contributed to over 50 publicly funded R&D projects. He also served on the board of TÜBİTAK TEYDEB MAKİTEG, evaluating more than 1,200 industrial R&D proposals, and provided consultancy for the establishment of several R&D centers.

Beyond academia, Prof. Kalyoncu played an active role in the Chamber of Mechanical Engineers (TMMOB), holding multiple leadership positions including Konya Branch Chair over several terms. He has contributed to the profession through the organization of technical events and the publication of reference materials as both editor and author. His career bridges academic research, industrial innovation, and professional service in mechanical engineering.

INVITED SPEAKERS



Keynote Speaker

Prof. Dr. Oğuzhan YILMAZ

Gazi University

Prof. Dr. Oğuzhan YILMAZ received his Ph.D. in Mechanical, Materials and Manufacturing Engineering from the University of Nottingham in 2006, where he participated in several Rolls-Royce and EPSRC-funded research projects within the Rolls-Royce University Technology Centre (UTC).

Following his return to Türkiye, he coordinated and supervised multiple nationally and privately funded R&D projects, including those supported by TÜBİTAK. Between 2007 and 2015, he served at Gaziantep University, and since 2017, he has been a faculty member at Gazi University, where he leads the Advanced Manufacturing Technologies Research Group (AMTRG). His research focuses on additive manufacturing, wire arc additive manufacturing (WAAM), advanced production techniques, and industrial repair technologies. He is currently Editor-in-Chief of The Journal of the Faculty of Engineering and Architecture of Gazi University (SCI-E) and Associate Editor of The Journal of Machine Design and Production.

Prof. Yılmaz is also actively involved in national initiatives for additive manufacturing, serving as a board member of the Welding and Joining Technologies Research and Application Center, a researcher at the Turkish Additive Manufacturing Excellence Center (EKTAM), and a founding member of the Turkish Additive Manufacturing Association (TAMA). He co-chaired the AMCTURKEY 2019 and 2021 conferences.

INVITED SPEAKERS



Keynote Speaker

Prof. Dr. Rahmi ÜNAL

Gazi University

Prof. Dr. Rahmi ÜNAL graduated from the Mechanical Engineering Department of the Faculty of Engineering at METU Gaziantep in 1991. He completed his master's degree at Gazi University's Department of Mechanical Engineering in 1995 and his doctorate at Clausthal Technical University at Materials Science and Engineering Department in Germany in 1999. He currently serves as a professor in the Mechanical Engineering Department at Gazi University.

His research interests lie in Mechanical Engineering and Materials Science/Engineering. He focuses on Powder Metallurgy, Manufacturing Technologies, Material Behavior, and Alloy Design. He continues his research and development efforts, especially in metal powder production using gas atomization and plasma atomization methods, alloy design, and additive manufacturing.

PROGRAM OVERVIEW		
Location: Gaziantep University - Maveria Congress and Art Center		
06.10.2025 - MONDAY		
09:00 – 10:00	Registration	Conference Registration Desk
10:00 – 11:15	Opening Ceremony	Gaziantep University – Main Hall
11:15 – 12:00	Invited Talk	Prof. Dr. Muzaffer ŞEKER Bilim Diplomasisi ve TÜBA: Akademik Sorumluluklarımız
12:00 – 13:30	Lunch -	Gaziantep University Main Dining Hole
13:30 – 14:45	Session I	Gaziantep University - Hall 1 - Hall 2 - Hall 3 & Hall 4
14:45 – 15:00	Coffee Break	
15:00 – 16:00	Invited Speakers Session (Gaziantep University)	Prof. Dr. Muammer KOÇ Design for Sustainability: Needs, Challenges & Opportunities under the Changing Global Dynamics
		Prof. Dr. Mete KALYONCU Mühendislik Uygulamalarında Optimizasyon
16:00 – 16:30	Coffee Break	
16:30 – 17:45	Session II	Gaziantep University - Hall 1 - Hall 2 - Hall 3 & Hall 4
18:00	Bus transfer from Hotel and Maveria Congress and Art Center for Dinner	
18:30 – 21:30	Dinner (Göl Restaurant)	
21:00	Bus transfer to Hotel	
07.10.2025 - TUESDAY		
09:00 – 10:15	Session III	Gaziantep University - Hall 1 - Hall 2 - Hall 3 & Hall 4
10:15 – 10:45	Coffee Break	
10:45 – 12:00	Session IV	Gaziantep University - Hall 1 - Hall 2 - Hall 3 & Hall 4
12:15	Bus transfer from Maveria Congress and Art Center to Hasan Kalyoncu University for Lunch	
12:45 – 14:00	Lunch – Hasan Kalyoncu University	
14:00 – 15:00	Invited Speakers Session (Hasan Kalyoncu University)	Prof. Dr. Oğuzhan YILMAZ Recent Advances in Metal Additive Manufacturing Technologies
		Prof. Dr. Zakaria BOUMERZOUG Metallurgical Aspect of Wire Drawing Process of Metallic Wires
15:30	Bus transfer from HKU to Gaziantep Panorama Museum and Gaziantep City Tour	
18:30	Dinner (İkinci Bahar Konuk Evi)	
22:00	Bus transfer to Hotel	
08.10.2025 - WEDNESDAY		
09:00 – 10:15	Session V	Gaziantep University - Hall 1 - Hall 2 - Hall 3 & Hall 4
10:15 – 10:45	Coffee Break	
10:45 – 12:00	Session VI	Gaziantep University - Hall 1 - Hall 2 - Hall 3 – Hall 4 & Hall 5
12:15	Bus transfer from Maveria Congress and Art Center to GIBTU for Lunch	
12:45 – 14:00	Lunch - Gaziantep Islamic Science and Technology University	
14:00 – 15:00	Invited Speakers Session (Gaziantep Islamic Science and Technology University)	Prof. Dr. Rahmi ÜNAL Aluminum Alloy Development Studies for Additive Manufacturing: Challenges and Opportunities.
15:30	Bus transfer from GIBTU to Gaziantep Zeugma Museum *Museum entrance fee shall be paid by participant	
18:30	Dinner (Oğuzeli Belediyesi Deliklitepe Sosyal Tesisi ve Seyir Terası)	
21:30	Bus transfer to Hotel	

09.10.2025 - THURSDAY

08:00-22:00 RUMKALE-HALFETİ Tour (Paid)*

08:00-22:00 GÖBEKLİTEPE-BALIKLIGÖL Tour (Paid)*

* The tour options are with a fee, and only one tour can be chosen.

* The registration for the tours and fee payment should be processed in the first day of conference (October 06, 2025) preferably during the registration.

*The fee includes only transportation and guided services. Expenses such as the meals, and personal expenses are not included in the fee.

OPENING CEREMONY

06.10.2025 – MONDAY (10:00 – 11:15)

OPENING SPEECHES

INVITED TALK

06.10.2025 – MONDAY (11:15 – 12:00)

OPENING SPEECH:

MAIN HALL

Prof. Dr. Muzaffer ŞEKER

Bilim Diplomasisi ve TÜBA: Akademik Sorumluluklarımız

Speaking language: Turkish

SESSION I

06.10.2025 - MONDAY (13:30 – 14:45)

Chair: Prof. Dr. Metin BEDİR

HALL 1

TICMET25-0005 COMPARATIVE ANALYSIS OF PRECIPITATION HARDENING MECHANISMS IN SEMI AUSTENITIC AND MARTENSITIC STAINLESS STEELS MICROSTRUCTURE HEAT TREATMENT AND MECHANICAL PERFORMANCE
SHAHROZ SAKHAWAT

TICMET25-0054 EXPERIMENTAL STUDY ON STRENGTHENING OF CONCRETE SPECIMENS WITH POLYUREA COATING
ALI GURBUZ, HARUN YUKSEL GULYAPRAK

TICMET25-0074 ASIRI PLASTİK DEFORMASYONUN ZN 15AL 3CU ALASIMININ MEKANİK ÖZELLİKLERİNE ETKİSİ
ALPER KAGAN BEKİRCAN, MUHAMMET UZUN, SADUN KARABIYIK, MURAT HACIOSMANOĞLU, YASIN ALEMDAG, ALI PASA HEKİMOĞLU, TEMEL SAVASKAN

TICMET25-0142 INTEGRATING ENVIRONMENTAL ECONOMIC AND SOCIAL METRICS FOR MULTI CRITERIA DECISION ANALYSIS OF HYDROGEN PRODUCTION TECHNOLOGIES
SHOUKAT ALIM KHAN, MUAMMER KOC

TICMET25-0007 EVALUATION OF BIOPOLYMERS AS ALTERNATIVE BINDERS IN EARTHEN SOIL COMPOSITES
ARSLAN YOUSAF, SHOUKAT ALIM KHAN, MUAMMER KOC

06.10.2025 - MONDAY (13:30 – 14:45)	
Chair: Prof. Dr. Ömer EYERCİOĞLU	
HALL 2	TICMET25-0045 DETECTION OF FATIGUE CRACK FORMATION IN GLASS FIBER REINFORCED THERMOPLASTIC COMPOSITE WITH MACHINE LEARNING DR METE KAYIHAN, RESEARCH ASSISTANT AMMAR TARIK DINCER, PROF DR MUSTAFA BAKKAL
	TICMET25-0049 SYNTHETIC BRAIN VESSEL DATASET GENERATION FOR SINGLE MODALITY MRI AND 3D SEGMENTATION PERFORMANCE PROF DR MUHAMMED FATİH TALU, RES ASST MUSTAFA SAHİN, RES ASST ASLI GURSOY
	TICMET25-0062 ESTIMATING CROSS COUNTRY SKIING PERFORMANCE THROUGH ADVANCED MACHINE LEARNING TECHNIQUES ASSIT PROF DR ALI KARAH BASH, ASSIT PROF DR SHAHABODDİN DANESHVAR
	TICMET25-0090 COMPARATIVE STUDY OF DEEP LEARNING SEGMENTATION MODELS FOR BACKGROUND SUBTRACTION AND PRE DEFECT DETECTION IN LARGE SCALE 3D PRINTING PROF DR OMER EYERCIOGLU, MR SINAN KESKİN
	TICMET25-0097 DESIGN AND PERFORMANCE EVALUATION OF AN INTERNET OF THINGS IOT ENABLED AUTOMATIC AQUAPONIC SYSTEM ASST PROF DR YUKSEL TOKUR BOZKURT, INDUSTRIAL AUTOMATION DEPT HEAD ADIL CEYLAN

06.10.2025 - MONDAY (13:30 – 14:45)	
Chair: Prof. Dr. Mustafa BAKKAL	
HALL 3	TICMET25-0013 IMPACT TOUGHNESS OF CPP AND PET BASED HYBRID THERMOPLASTIC LAMINATES UNDER FLATWISE CHARPY TESTING RESEARCH ASSISTANT NIDA PULGU, PROFESSOR AHMET ERKLİG
	TICMET25-0116 A CONCEPTUAL FRAMEWORK FOR ENHANCING JUTE POLYPROPYLENE INTERFACE USING A PINE RESIN ADDUCT MR MESUT TOZAN, MR AMMAR TARIK DINCER, DR METE KAYIHAN, PROF MUSTAFA BAKKAL
	TICMET25-0117 EFFECT OF RECYCLING GLASS FIBER REINFORCED ELIUM THERMOPLASTIC COMPOSITE MATERIALS ON MECHANICAL PROPERTIES MRS BERFİN CEVLANİ, DR METE KAYIHAN, PROF MUSTAFA BAKKAL
	TICMET25-0135 ANALYSIS OF AXIAL BUCKLING RESISTANCE IN CARBON EPOXY LAMINATED EPP FOAM STRUCTURES FOR UAV DESIGN RESEARCH ASSISTANT MUSTAFA VARKI, ASSIST PROF DR BURAK SAHİN, PROF DR EYUP YETER
	TICMET25-0004 ALUMİNYUM 1000 SERİSİ PLAKALARLA HAZIRLANAN KOMPOZİT YAPILARIN KATMAN SAYISINA GÖRE MEKANİK DAVRANISLARININ İNCELENMESİ PROF DR HALİL İBRAHİM KURT, MAHAMAT MOUSSA TAHER HAMADA, AYSENUR YAYLA, İBRAHİM YILMAZ
	TICMET25-0003 HARDOX 400 VE 1045 ÇELİKLERİNİN MAG YÖNTEMLERİLE BİRLEŞTİRİLMESİ MİKROYAPI VE MEKANİK ÖZELLİKLERİNİN İNCELENMESİ İBRAHİM YILMAZ, AYSENUR YAYLA, HALİL İBRAHİM KURT

06.10.2025 - MONDAY (13:30 – 14:45)	
Chair: Assoc. Prof. Dr. Abdülcabbar YAVUZ - Online Session: https://bit.ly/3Kv20As	
HALL 4	TICMET25-0131 OTONOM KBRN FİLTRE SİSTEMİNİN GELİSTİRİLMESİ PROF. DR. NECİP FAZİL YILMAZ, FURKAN YÜKSEK
	TICMET25-0121 CEMENT POWDER EFFECT ON THE STRUCTURAL AND MORPHOLOGICAL PROPERTIES OF AL 5 5Zn 2 5MG 1 5CU ALLOY ALUMIX 431 DR AYSE NUR ACAR
	TICMET25-0108 OTOMOTİV FREN DİSKLERİNİN HARMONİK VE TRANSİENT ANALİZLERİ SONLU ELEMANLAR YÖNTEMİ İLE TERMOMEKANİK DAVRANISININ İNCELENMESİ ASSOCIATE PROFESSOR CEVAT OZARPA, MS ZEHRA ASMA, RES ASS SEYİT ALİ KARA
	TICMET25-0051 INTEGRATED DESIGN AND FAULT SIMULATION OF A WIND ENERGY PMSG UNDER DEMAGNETIZATION CONDITIONS LINA BOUHAFS, SALAH TAMALOUZT
	TICMET25-0127 TENSILE PROPERTIES OF GFRC AFTER SUNLIGHT CONDITIONING EKREM TURKCANOĞLU, ASSOC PROF DR NURETTİN FURKAN DOĞAN, ASSOC PROF DR ZEYNAL ABİDİN OĞUZ
	TICMET25-0063 MICROWAVE SENSOR METHOD IN MATERIAL CHARACTERIZATION HÜSEYİN KORKMAZ, UĞUR CEM HASAR

INVITED SPEAKERS SESSION

06.10.2025 - MONDAY (15:00 – 16:00)

Chair: Prof. Dr. Necip Fazıl YILMAZ

MAIN HALL	Prof. Dr. Muammer KOÇ Design for Sustainability: Needs, Challenges & Opportunities under the Changing Global Dynamics
	Prof. Dr. Mete KALYONCU Mühendislik Uygulamalarında Optimizasyon
	Speaking language: Turkish

SESSION II

06.10.2025 - MONDAY (16:30 – 17:45)

Chair: Assist. Prof. Dr. Suat ÖNAL

HALL 1	TICMET25-0010 FARKLI ISIL ISLEMLERIN SICAK DOVME AISI 4140 CELIK PARCALARIN OZELLIKLERINE ETKISININ INCELENMESI GIZEM KARABULUT SEVK, BERK SEVK, NURAY BEKOZ ULLEN
	GOVTICMET25-0113 SURFACE ENHANCEMENT OF ADDITIVELY MANUFACTURED MICRO CHANNELS VIA ABRASIVE FLOW MACHINING AFM PROCESS OMER EYERCIOGLU, MEHMET ALI AKELOGLU
	TICMET25-0008 DIS HEKIMLIGI UYGULAMALARI ICIN DENTAL RECINEDE HIDROKSİAPATİT KATKISININ ÜRETİLEBİLİRLİĞİ VE YAPISAL ÖZELLİKLERE ETKİSİ MUSA YILMAZ
	TICMET25-0101 EARTHQUAKE PERFORMANCE OF PILE FOUNDATIONS ON MULTI STORY BUILDING IN PLAXIS 2D MEHMET EMİN YETİM, HAMZA GULLU, NİHAT ATMACA
	TICMET25-0089 EFFECTIVENESS OF ABRASIVE FLOW MACHINING ON ADDITIVELY MANUFACTURED PARTS WITH VARYING CROSS SECTION GEOMETRIES OMER EYERCIOGLU, MEHMET ALI AKELOGLU

06.10.2025 - MONDAY (16:30 – 17:45)

Prof. Dr. Enver ATİK

HALL 2	TICMET25-0053 BİR ELEKTRİKLI ARAC ICIN MPPT KONTROLLU GÜNEŞ ENERJİSİYLE ÇALIŞAN YÜKSİLTİCİ DÖNÜŞTÜRÜCÜ SİSTEMİNİN TASARIMI VE BENZETİMİ AYSENUR YILMAZ, EMRE YİĞİT, MUSTAFA ERGİN SAHİN
	TICMET25-0122 SYNTHESIS AND ELECTROCHEMICAL PERFORMANCE INVESTIGATION OF SB DOPED NA0 66MNO2 CATHODE MATERIAL YUNUS EMRE UYANIK, ERDİNC ÖZ
	TICMET25-0023 THERMAL OXIDATION AND ANODISATION OF ZINC FOR CORROSION APPLICATION ABDULCABBAR YAVUZ, ABDULRAHMAN ALHAJ OMAR
	TICMET25-0087 FLUID STRUCTURE INTERACTION FSI BEHAVIOR OF A VVER 1200 NUCLEAR REACTOR VESSEL UNDER NORMAL OPERATING CONDITIONS BEGÜM KUTUK, İBRAHİM HALİL GÜZELBEY
	TICMET25-0131 OTONOM KBRN FİLTRE SİSTEMİNİN GELİSTİRİLMESİ NECİP FAZİL YILMAZ, FURKAN YÜKSEK
	TICMET25-0024 ELECTROCHEMICAL AND STRUCTURAL CHARACTERIZATION OF INDIUM BASED ALLOY COATED FLEXIBLE ELECTRODES IN IONIC LIQUID ELECTROLYTE FOR ENERGY STORAGE APPLICATIONS ABDULCABBAR YAVUZ, METİN BEDİR

06.10.2025 - MONDAY (16:30 – 17:45)

Chair: Prof. Dr. Uğur Cem HASAR

HALL 3	TICMET25-0119 INVESTIGATION OF HOT PRESS JOINING OF GLASS FIBER REINFORCED PA66 AND AISI 304 BURAK KILIC, ALİ TANER KUZU, MURAT VURAL
	TICMET25-0039 VISCOSITY CHARACTERIZATION OF NON NEWTONIAN FLUIDS USING RECTANGULAR CHANNELS MEHMET AYAS, DOÇ. DR. JAN SKOCILAS, İNG. JAN STİPEK, RUDOLF ZITNY, TOMAS JIROUT
	TICMET25-0031 POWER ANALYSIS OF SOLAR CELLS WITH DIFFERENT BUSBAR NUMBERS AND FINGER TYPES ACCORDING TO THE NUMBER OF SOLDER PROBES HASAN MİTHAT DELİBAS, NECİP FAZİL YILMAZ
	TICMET25-0076 THE BLUETOOTH BASED SMART DOORBELL SYSTEM FOR HEARING IMPAIRED USERS MUHAMMED EMİN KUTLUCA, MUSTAFA ERGİN SAHİN

	TICMET25-0067 EFFECT OF SURFACE MODIFICATION ON HYDROPHILIC COATING IN NELATON CATHETERS CEMRE YASA
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06.10.2025 - MONDAY (16:30 – 17:45)

Chair: Prof. Dr. Yasin ALEMDAĞ - Online Session: <https://bit.ly/48HBfm7>

HALL 4	TICMET25-0055 COMPARATIVE STUDY OF WINGLET AND WINGTIP DESIGNS ON GLIDER EFFICIENCY MEHMET HANIFI DOGRU, IBRAHIM GOV, ONUR ACAR
	TICMET25-0056 STRUCTURAL EFFECTS OF STATIC LOADS AND MOTORS LOCATION OPTIMIZATION IN GLIDER WINGS ASSOC PROF DR MEHMET HANIFI DOGRU, PROF DR IBRAHIM GOV, PH D STUDENT ONUR ACAR
	TICMET25-0017 DEVELOPMENT AND NUMERICAL ANALYSIS OF CORE DESIGNS TO ENHANCE FLOW PERFORMANCE IN THE GOV PROCESS MURAT KALAK, MURAT KALAK, IBRAHIM GOV, BURAK SAHIN, BURAK SAHIN, KÜRŞAT GÖV
	TICMET25-0018 PREDICTION OF PILOT GEOMETRY FORMS FOR NON NEWTONIAN FLUIDS IN GOV PROCESS AND NUMERICAL ANALYSIS OF FLOW BEHAVIOUR MURAT KALAK, MEHMET HANIFI DOGRU, IBRAHIM GOV, BURAK SAHIN, KURSAD GOV
	TICMET25-0107 EVALUATION OF LOW PRESSURE INJECTION MOLDING PROCESS FOR RAPID MANUFACTURING OMER EYERCIOGLU, ONUR GEBOLOGLU
	TICMET25-0064 THE TECHNO ECONOMICS OF LITHIUM ION CATHODE RECYCLING IN A CIRCULAR ECONOMY MR ADIL FAROOQ, PROF DR OMER NECATI CORA

SESSION III

07.10.2025 - TUESDAY (09:00 – 10:15)

Chair: Prof. Dr. Gençğa PÜRÇEK

HALL 1	TICMET25-0002 ASSESSING THE IMPACT OF DIGITAL MODELLING AND AUTOMATION ON SUSTAINABILITY METRICS IN 3D PRINTED BUILDINGS A DATA DRIVEN ANALYSIS PHD STUDENT ZEYAD ASAAD ALABDULLAH, PROF MUAMMER KOC, DR SHOUKAT KHAN
	TICMET25-0016 ADDITIVE MANUFACTURING OF GRADIENT POLYMER NANOCOMPOSITE STRUCTURES USING SLA 3D PRINTING DR ANS AL RASHID, PROF DR MUAMMER KOC
	TICMET25-0028 THERMAL PERFORMANCE ASSESSMENT OF SLM FABRICATED AL6063 METAL FOAM PCM COMPOSITES EFFECTS OF INITIAL TEMPERATURE AND HEAT LOAD VARIATIONS RES ASST KAN GORKEM ELRI, ASSOC PROF DR MUSTAFA YUSUF YAZICI, PROF DR BULENT OZTURK
	TICMET25-0027 IMPACT OF FE AND CO ADDITIONS ON THE MECHANICAL BEHAVIOR OF NITI SHAPE MEMORY ALLOYS A MOLECULAR DYNAMICS STUDY UNDER HIGH STRAIN RATE RES ASST HAMIT ALI REIS, RES ASST KAN GORKEM ELRI, PROF DR BULENT OZTURK, DR RASIT SEZER
	TICMET25-0109 EXPERIMENTAL AND STATISTICAL OPTIMIZATION OF FLEXURAL YIELD STRENGTH IN CONDUCTIVE PLA USING FUSED FILAMENT FABRICATION MR IMRAN KHAN, DR ANS AL RASHID, PROF MUAMMER KOC

07.10.2025 - TUESDAY (09:00 – 10:15)

Chair: Prof. Dr. Ömer Necati CORA

HALL 2	TICMET25-0069 EFFECT OF Ti6AL4V COLD SPRAYING ON THE SURFACE QUALITY OF ADDITIVELY MANUFACTURED ALSi10MG ALLOY IBRAHIM CAN DUMAN, DURSUN MERIC, HASAN GEDIKLI, REMZI ECMEL ECE, OMER NECATI CORA
	TICMET25-0035 CUVAL KUMASLARINDA GORSEL HATA TURLERININ DERIN OGRENME ILE SINIFLANDIRILMASI CNN TABANLI BIR YAKLASIM NECIP FAZIL YILMAZ, MAHMUT FURKAN KALKAN, SEBAHATTIN CURUK
	TICMET25-0084 EFFECT OF COLD SPRAYING PARAMETERS ON THE DEPOSITION PERFORMANCE OF ADDITIVELY MANUFACTURED Ti6AL4V ALLOY STUDENT DOGUKAN KOLCU, DURSUN MERIC, HUSEYIN CAN AKSA, TUGCE DOKUZ, ASSISTANT PROF HARUN YANAR, PROF DR OMER NECATI CORA, PROF DR HASAN GEDIKLI, PROF DR TEMEL VAROL, PROF DR GENCAGA PURCEK
	TICMET25-0125 EMPIRICAL VALIDATION OF AN INTEGRATED MCDA LCA DECISION FRAMEWORK FOR 3D PRINTING ADOPTION IN HIGHER EDUCATION FACILITIES MANAGEMENT MR TUSKHEER ABID
	TICMET25-0130 FROM PHYSICS TO PRACTICE NUMERICAL MODELLING AND SIMULATION OF EXTRUSION BASED 3D CONCRETE PRINTING STUDENT ZEYAD ALABDULLAH, PROF MUAMMER KOC, DR SHOUKAT KHAN

07.10.2025 - TUESDAY (09:00 – 10:15)

Chair: Prof. Dr. Züleyha DEĞİRMENCI

HALL 3	TICMET25-0058 100 MICROMODAL VE MICROMODAL KASIRI KARISIMLI ORME KUMASLARIN FARKLI IPLIK NUMARALARINA GORE FIZIKSEL OZELLIKLERININ KARSILASTIRILMASI EDA AKCURA, ERSEN CATAK, ZULEYHA DEGIRMENCI
	TICMET25-0059 FARKLI ORANLARDA RECYCLE PAMUK KULLANIMININ IPLIK KALITE OZELLIKLERINE ETKISININ INCELENMESI ESRA GUNES, CANSU GENC, ERKAN EVRAN, ZULEYHA DEGIRMENCI
	TICMET25-0060 PAMUK VE ISIRGAN LIFI BIYOBASLI ELYAF KARISIMLI IPLIKLERDE BUKUM FARKININ IPLIK KALITE OZELLIKLERI UZERINE ETKISININ INCELENMESI ENGINEER BEYZAG, MANAGER ERKAN EVRAN, CHIEF CANSU GENC, DR ZULEYHA DEGIRMENCI
	TICMET25-0068 INVESTIGATION OF THE EFFECTS OF PRETREATMENTS ON THE PRINTING PROCESS IN TOWEL FABRIC MUSTAFA SAHIN KOSAK, NAVRUZ UDURGUCU, BETUL KARABORAN, ERSIN KEKLIKIOGLU, HARUN ARSLAN
	TICMET25-0083 INVESTIGATION OF THE PERFORMANCE OF FLAT AND CORE YARNS OBTAINED FROM SUSTAINABLE RIGID AND SOFT FIBER BLENDS NESLIHAN OKYAY, FATIH ISIK

07.10.2025 - TUESDAY (09:00 – 10:15)

Chair: Prof. Dr. Ali Tolga BOZDANA - **Online Session:** <https://bit.ly/473WBZJ>

HALL 4	TICMET25-0070 ASSEMBLY LINE BALANCING USING THE BEES ALGORITHM IN A MOBILE CRANE MANUFACTURING SEDAT ACAR, PROF DR METE KALYONCU
	TICMET25-0071 PASLANMAZ CELIK SACDAN MAMUL BIR PARCANIN DERIN CEKME PROSESININ ARI ALGORITMASI KULLANILARAK OPTIMIZASYONU EMRE GUL, MUSTAFA AY, METE KALYONCU
	TICMET25-0088 AUTOMATED IDENTIFICATION OF FORMED OR BENT SHEET METAL PARTS GUL SIGINDI, ALI KILIC
	TICMET25-0118 ENHANCING IRRIGATION SCHEDULING ACCURACY THROUGH MACHINE LEARNING AND DEEP LEARNING A CASE STUDY ON EVAPOTRANSPIRATION AND SOIL WATER CONTENT MODELING KAAN ARIK, BILAL EROL, AKIN DELIBASI, CEM ERTAL
	TICMET25-0126 SEQUENTIAL REBALANCING FRAMEWORK FOR STOCHASTIC U SHAPED DISASSEMBLY LINES LANA MANLA ALI, EREN OZCEYLAN, SULEYMAN METE
	TICMET25-0061 EFFECT OF PIN DENSITY ON INTERLOCKING STRENGTH ANALYTICAL MODELING AND FEM VALIDATION OF FAILURE MODES IN POLYMER METAL INTERFACES MEHMET ALADAG, IZABELA ZGLOBICK, KRZYSZTOF KURZYDLOWSKI

SESSION IV

07.10.2025 - TUESDAY (10:45 – 12:00)

Chair: Assoc. Prof. Dr. Esin SARIOĞLU

HALL 1	TICMET25-0103 YUKSEK ENTROPILI SUPER ALASIMLARIN MEKANIK OZELLIKLERINE AL TI ORANININ ETKISI ISMAIL CAN OZCELIK, KURSAT ICIN, SEFA EMRE SUNBUL
	TICMET25-0104 HADDELENMIS BORAKS TAKVİYELİ AL METAL MATRİS KOMPOZİTLERDE ISIL İŞLEM PARAMETRELERİNİN KOROZYON DİRENCİNE ETKİSİ SUAT ONAL
	TICMET25-0036 PRODUCTION CHARACTERIZATION AND APPLICATION POTENTIAL OF FUNCTIONAL HYDROXYAPATITE FROM NATURAL CALCIUM SOURCES BUKET ALP, SENA TEK, BURAK CEPER, SEFA EMRE SUNBUL
	TICMET25-0096 RHEOLOGICAL PERFORMANCE OF GROUTING MATERIALS MEHMET EMİN YETİM, HAMZA GULLU, NİHAT ATMACA
	TICMET25-0086 SAF BOR ESASLI KARISIM ILE AISI 4140 CELIGININ BORLANMASI SADUN KARABIYIK, YASIN ALEMDAG, MUHAMMET UZUN, GENCAGA PURCEK, FURKAN ALPTEKİN
	TICMET25-0080 DETERMINATION OF SURFACE ROUGHNESS OF METAL MATERIALS WITH IMAGE PROCESSING ASSISTED DEEP LEARNING TECHNIQUES ZEYNEP ASLI ERTAN, NECİP FAZİL YILMAZ, FURKAN KALKAN

07.10.2025 - TUESDAY (10:45 – 12:00)

Chair: Prof. Dr. Ahmet ERKLİĞ

HALL 2	TICMET25-0041 YUKSEK GUC UYGULAMALARI ICIN UC FAZLI IKI SEVIYELI ARTIRAN DOGRULTUCULARDA MODULASYON TEKNİKLERİNİN KARSILASTIRILMASI MERVE MOLLAHANNOGLU, HAKKI MOLLAHANNOGLU
	TICMET25-0042 MODULER BIR MAGLEV ULASIM TEST PLATFORMU TASARIMI VE KALICI MIKNATIS DIZILERININ PMA LDR PERFORMANSININ INCELENMESI HAKKI MOLLAHANNOGLU, UFUK KEMAL OZTURK, MURAT ABDIOGLU
	TICMET25-0011 DESIGNING QUANTUM RADAR FOR DETECTING UNVISIBLE OBJECTS MURAT ODUNCUOGLU

	TICMET25-0050 PRODUCTION AND CHARACTERIZATION OF TIN OXIDE AND TIN SULPHIDE BASED THIN FILM GAS SENSORS BY RF MAGNETRON SPUTTERING METHOD MUCAHIT OFLAZ, SOHEIL MOBTAKERI, MEHMET ERTUGRUL, SAMAN HABASHYANI, SEDANUR KELES
	TICMET25-0082 DWARF MONGOOSE OPTIMIZATION ALGORITHM FOR CHANNEL ESTIMATION YUKSEL TOKUR BOZKURT
07.10.2025 - TUESDAY (10:45 – 12:00)	
Chair: Prof. Dr. Mustafa Ergin ŞAHİN	
HALL 3	TICMET25-0093 AN INVESTIGATION INTO THE IMPACT OF WIRE DRAWING PROCESS PARAMETERS ON ENGINEERING PERFORMANCE PROPERTIES TUBA DEMIREL, LEVENT CENK KUMRUOĞLU
	TICMET25-0092 FINITE ELEMENT ANALYSIS OF THE V BENDING PROCESS OF ALUMINIUM COPPER CLAD SHEETS OMER EYERCIOĞLU, VEYSEL CELİK
	TICMET25-0079 DIE DESIGN AND MANUFACTURING PROCESS OPTIMIZATION OF MICRO SCALE EXPANDED COPPER MESH FOR AEROSPACE APPLICATIONS SELAMI OGUZ DERYA, MURAT AKSUT
	TICMET25-0081 METALLURGICAL ASPECT OF WIREDRAWING PROCESS OF METALLIC WIRES ZAKARIA BOUMERZOUG
	TICMET25-0075 STROKE AND FORCE TRANSMISSION OPTIMIZATION OF A SIX LINKAGE PRESS MECHANISM USING PARTICLE SWARM OPTIMIZATION ALI CEM OZER, MERVE SAHİN, UMUT KARAGUZEL, KEREM ALTUN
	TICMET25-0144 EFFECT OF TOOL TIP GEOMETRY ON THE MECHANICAL PROPERTIES OF ROTARY FRICTION WELDED JOINTS HAKAN CANDAR

07.10.2025 - TUESDAY (10:45 – 12:00)	
Chair: Assoc. Prof. Dr. Serkan ARACI	
HALL 4	TICMET25-0006 MULTIFUNCTIONAL SILICA AEROGEL NANOCOATINGS FOR THERMAL INSULATION OF GLASS SURFACES EKİN SU ESKİİZMİRLİLER, ERKAN ERSOZ, NİLAY GİZLİ
	TICMET25-0029 EXPERIMENTAL AND NUMERICAL INVESTIGATION OF THE VIBRATION BEHAVIOR OF A SYMMETRIC BALANCED COMPOSITE PLATE TEVFIK MELHEM, OMER USTA, BURHAN ÖZDEMİR, DURSUN MERİC, UMUT CAN, HASAN GEDİKLİ
	TICMET25-0110 KALSINASYON İŞLEMİNİN ELEKTROSPİNNİNG YÖNTEMİYLE SENTEZLENEN YÜKSEK ENTROPİLİ OKSİT NANOFİBERLERİN FAZ DONUŞUMLARI VE KRİSTALLEŞME DAVRANIŞI ÜZERİNE ETKİSİ MERVE ESRANUR YALCIN, SUMRAN BİLGİN, SEFA EMRE SUNBUL, DR KURSAT İCİN
	TICMET25-0123 SOME FORMULAS AND IDENTITIES FOR KAPPA BERNSTEIN POLYNOMIALS AYŞE KARAGENC, MEHMET ACIKGOZ,
	TICMET25-0124 PROBABILISTIC HERMITE POLYNOMIALS ASSOCIATED WITH CERTAIN APPLICATIONS BURCU DOĞRUER DOĞAN, MEHMET ACIKGOZ, SERKAN ARACI

INVITED SPEAKERS SESSION

07.10.2025 - TUESDAY (14:00 – 15:00)	
Chair: Prof. Dr. Necip Fazıl YILMAZ	
MAIN HALL	Prof. Dr. Oğuzhan YILMAZ Recent Advances in Metal Additive Manufacturing Technologies
	Prof. Dr. Zakaria BOUMERZOUG Metallurgical Aspect of Wire Drawing Process of Metallic Wires
	Speaking language: English

SESSION V

08.10.2025 - WEDNESDAY (09:00 – 10:15)

Chair: Assoc. Prof. Dr. Derya Kapusuz YAVUZ

HALL 1	TICMET25-0012 SOL GEL DERIVED ARCHITECTURES FOR NEXT GENERATION DATA STORAGE APPLICATIONS DERYA KAPUSUZ YAVUZ
	TICMET25-0129 CORROSION BEHAVIOR OF HEAT TREATED ALTiB MASTER ALLOYS FROM ADDITIVE ROLE TO STANDALONE MATERIAL POTENTIAL MAHMUT FURKAN KALKAN
	TICMET25-0037 IMPACT BEHAVIOR OF UNIDIRECTIONAL AND PLAIN WEAVE COMPOSITE STRUCTURES IN DIFFERENT CONFIGURATIONS BURHAN OZDEMIR, OMER USTA, DURSUN MERIC, HASAN GEDIKLI, UMUT CAN, OMER NECATI CORA
	TICMET25-0040 INVESTIGATION OF ENERGY ABSORPTION AND DAMAGE BEHAVIOR CHARACTERISTICS OF BIO INSPIRED SANDWICH PANELS ALIHAN ACUNER, TARIK DURSUN VIRDIL, RECEP TUNAHAN TURKER, ISMAIL OZEN, OMER NECATI CORA
	TICMET25-0048 THE EFFECT OF PROPOLIS IN BURN WOUND INFECTION MODEL INDUCED IN GALLERIA MELLONELLA LARVAE MERVE CORA, MINE EGIN
	TICMET25-0065 INSPECTION OF THE WELD ZONE BY COMBINING MIILUX PROTECTION 600 ARMOR STEEL WITH METAL INERT GAS WELDING MIG ENVER ATIK

08.10.2025 - WEDNESDAY (09:00 – 10:15)

Chair: Prof. Dr. Eren ÖZCEYLAN

HALL 2	TICMET25-0094 ROBOTİK TEKNOLOJİ KULLANILARAK METALİK EFEKTLİ UZUN DAMARLI MUHENDİSLİK TASLARININ GELİSTİRİLMESİ RECEP DIRİK, NURCAN TOPCU
	TICMET25-0095 MUHENDİSLİK TASI PARLATMA ATIKLARININ ALTERNATİF HAMMADDE OLARAK YENİDEN KULLANILMASI AYSE GUL TUNCER BASOGLU, HAKAN OMUR, NURCAN TOPCU, OYA USKUP KORCAN
	TICMET25-0099 ESTIMATING CROSS COUNTRY SKIING PERFORMANCE THROUGH ADVANCED MACHINE LEARNING TECHNIQUES ALI KARAH BASH, SHAHABODDIN DANESHVAR
	TICMET25-0111 SEMANTIC SEGMENTATION AND DOMAIN ADAPTATION FOR ROBUST IDENTIFICATION OF SHEET METAL PARTS GUL SIGINDI, ALI KILIC, SADETTIN KAPUCU
	TICMET25-0132 MULTI AGENT REINFORCEMENT LEARNING BASED COMMUNICATION AND TRAFFIC MANAGEMENT ALGORITHM FOR AUTONOMOUS MOBILE ROBOTS MUHAMMED IDRIS AKTAS, ZEYNEP DIDEM UNUTMAZ DURMUSOGLU, EREN OZCEYLAN
	TICMET25-0133 DYNAMIC TASK ALLOCATION AND ENERGY AWARE FLEET SCHEDULING USING AN AI BASED HYBRID ALGORITHM IN ROS BASED AUTONOMOUS MOBILE ROBOT SYSTEMS MUHAMMED IDRIS AKTAS, ZEYNEP DIDEM UNUTMAZ DURMUSOGLU, EREN OZCEYLAN

08.10.2025 - WEDNESDAY (09:00 – 10:15)

Chair: Prof. Dr. Sultan ÖZTÜRK

HALL 3	TICMET25-0134 GAZİANTEP TEKİ BİR TEKSTİL FİRMASINDA GES UYGULAMASI ENERJİ VERİMLİLİĞİ VE EKONOMİK KAZANCLARIN ANALİZİ BEHZAT YILDIRIM, FAHRI SENGUL, HILAL AGAC, MEHMET TOPALBEKİROĞLU
	TICMET25-0136 HALI KENAR SACAĞ ATIKLARINDAN ELDE EDİLEN GERİ DONUSTURULMUS ELYAFLARIN HALI ATKI İPLİĞİ ÜRETİMİNDE KULLANIMI VE MEKANİK ÖZELLİKLERİNİN İNCELENMESİ OZKAN BOZOGLAN, HALİL İBRAHİM ÇELİK
	TICMET25-0137 DESIGN AND DEVELOPMENT OF A YARN RECYCLING MACHINE FOR THE RECOVERY OF CARPET WEAVING SELVEDGE WASTES OZKAN BOZOGLAN, HALİL İBRAHİM ÇELİK
	TICMET25-0145 MİKROECOCCELL LİFLERİNDEN İNCE NUMARA İPLİK ÜRETİMİNDE RİNG VE MVS EGİRME PERFORMANS KARSILASTIRMASI SEYMA SATIL, TULIN KAYA NACARKAHYA, İLKAY MUSTU, ASAF OZMEN, YUNUS KURUZ, HÜSEYİN YILDIZ
	TICMET25-0146 REJENERE SELULOZİK LİYOSEL LİFLERİNİN FARKLI EGİRME KOMPONENTLERİ İLE EGİRİLMESİNİN İPLİK KALİTESİNE ETKİSİNİN ARASTIRILMASI RAMAZAN TUR, TULIN KAYA NACARKAHYA, TUĞRUL OĞULATA
	TICMET25-0147 AIR PERMEABILITY PROPERTIES OF THREE THREAD KNITTED FABRICS PRODUCED WITH SUSTAINABLE ECOCCELL ORGANIC COTTON FIBER BLENDS ESİN SARIOĞLU

08.10.2025 - WEDNESDAY (09:00 – 10:15)

Chair: Prof. Dr. Emrah ÖZAHİ - Online Session: <https://bit.ly/3VKgAX6>

HALL 1	TICMET25-0098 NUMERICAL AND EXPERIMENTAL STUDY OF THE SHEAR PROPERTIES OF COMPOSITE LAMINATES AHMET CETIN
	TICMET25-0085 A SYSTEMATIC REVIEW OF GOAL PROGRAMMING APPLICATIONS IN LOCATION ALLOCATION PROBLEMS ABDULHAMIT ERTUGRUL, SULEYMAN METE, EREN OZCEYLAN
	TICMET25-0072 PREDICTIVE MAINTENANCE OF LINEAR GUIDEWAYS IN PVC WELDING MACHINES USING FAILURE MODE DETECTION MUHAMMET TAHA AKKOC, HASAN AYTUG KURT, MUSTAFA BAKKAL, UMUT KARAGUZEL, HAYDAR LIVATYALI
	TICMET25-0073 ROBOTIC AUTOMATION INTEGRATION IN RUNNER BREAKOUT FOR PLASTIC INJECTION MOLDING A CASE STUDY IN FURNITURE MANUFACTURING ANIL AKDOGAN, ALI SERDAR VANLI, CAGLA SEN, MURAT CIDIK, CIHAN MERTOZ, UGUR ALEV
	TICMET25-0066 INVESTIGATION OF THE EFFECT OF YARN A VALUE ON ENDHEN SHRINKAGE RATIO MUSTAFA SAHIN KOSAK, NAVRUZ UDURGUCU, ECE SILA UNAL
	TICMET25-0032 VALIDATION OF DIE FORCES IN THE ROTARY SWAGING PROCESS USING EXPERIMENTAL AND NUMERICAL METHODS HASAN AYTUG KURT, MUSTAFA BAKKAL, UMUT KARAGUZEL, HASAN CAKIR

SESSION VI

08.10.2025 - WEDNESDAY (10:45 – 12:00)

Chair: Assoc.Prof. Dr. Kürşat İÇİN

HALL 1	TICMET25-0009 BİTKİSEL KAYNAKLI SONOSENTEZLENEN ZNO NANOPARTİKÜLLERİN MULTİFONKSİYONEL ÖZELLİKLERİNİN İNCELENMESİ GİZEM KARABULUT SEVK, NURAY BEKOZ ULLEN
	TICMET25-0020 KALSİYUM VE MAGNEZYUM KATKILI MANYETİK SRFE O NANOPARACACIKLARI TAKVİYELİ PAN TABANLI NANOFİBER ÜRETİMİ MERT ESMEROĞLU, SAMET TOPAL, DAMLA DILARA ÇAKIL, SULTAN ÖZTÜRK
	TICMET25-0022 SELECTION OF A SUITABLE CHOLINE CHLORIDE BASED DEEP EUTECTIC SOLVENTS FOR BIOACTIVE COMPOUNDS EXTRACTION FROM MYRTUS COMMUNIS L LEAVES EZGİ KALKAN, MEDENİ MASKAN
	TICMET25-0026 APPLICATION OF NATURAL DEEP EUTECTIC SOLVENT FOR COTTONSEED OIL EXTRACTION PROCESS AN EFFICIENT ALTERNATIVE TO HEXANE EZGİ KALKAN, MEDENİ MASKAN
	TICMET25-0138 SU JETİ GUDUMLU LAZER KESİM YONTEMINDE PARAMETRELERİN YÜZEY MORFOLOJİSİNE ETKİSİ AYKUT BİLİCİ

08.10.2025 - WEDNESDAY (10:45 – 12:00)

Chair: Dr. Shahroz SAKHAWAT

HALL 2	TICMET25-0034 ADVANCING SCAFFOLD DESIGN VIA HYBRID AIR JET SPINNING AND 3D PRINTING FOR ENHANCED TISSUE INTEGRATION SUMAMA NUTHANA KALVA, MUAMMER KOC
	TICMET25-0140 CATALYST INNOVATION FOR LOW CARBON HYDROGEN TRI REFORMING OF METHANE WITH BI METALLIC CATALYSTS FOR CO UTILIZATION TUQA ELSHAEIKH, SARAH ELDAKROURI, AHMED ASHOUR, NIMIR ELBASHIR
	TICMET25-0141 ADVANCING SUSTAINABLE DRILLING FLUIDS ENHANCING RHEOLOGICAL PROPERTIES WITH GREEN CARBON NANOTUBES GCNTS AGWA MUSA, EIMAN MOHAMED, CHALLI WALA, NIMIR ELBASHIR
	TICMET25-0091 A FORGING LOAD BASED DIGITAL TWIN APPROACH FOR CONCEPTUAL DESIGN OF PRECISION GEAR DIES ADEM AKSOY, OMER EYERCIOĞLU
	TICMET25-0077 ANALYSIS OF A HYBRID PHOTOVOLTAIC SYSTEM WITH THERMAL COLLECTOR FOR SUSTAINABLE ENERGY SUPPLY IN AUTONOMOUS AREAS REKIOUA DJAMILA, REKIOUA TOUFİK, BEN SALAH CHOKRI

08.10.2025 - WEDNESDAY (10:45 – 12:00)

Chair: Prof. Dr. Mehmet TOPALBEKİROĞLU

HALL 3	TICMET25-0114 OPEN END İPLİK EGİRME YONTEMİ İLE GERİ DONUSUMLU PAMUK KARISIMLI HAVLU HAV İPLİĞİ ÜRETİMİ VE ÖZELLİKLERİNİN İNCELENMESİ YUSUF SENEL, HATİCE DEMİRAL, EKİN UNLU, HALİL İBRAHİM ÇELİK
	TICMET25-0150 HİYEN UYGULAMALARI İÇİN SPUNLACE MELTBLOWN HİBRİT NONWOVEN KUMAS GELİSTİRİLMESİ HABİBE BAĞCI, H. GÜLŞAH ÖZKAN, ŞEBNEM KAMALAK, MURATHAN SEVİM, HACER NOZOĞLU

	TICMET25-0128 POLİPROPİLEN TEKSTİL URUNLERIN URETİMİNDEKİ TELEFLERİN GERİ DONUSUMU BEHZAT YILDIRIM, FAHRI SENGUL, MEHMET TOPALBEKİROĞLU
	TICMET25-0151 YENİLENEBİLİR VE BİYOBÖZÜNÜR LİFLERLE SÜRDÜRÜLEBİLİR İSLAK MENDİL KUMASI GELİSTİRİLMESİ ŞEBNEM KAMALAK, HABİBE BAĞCI, H. GÜLŞAH ÖZKAN, ALİ FURKAN AKGÜL, GÖKHAN YARDIM
	TICMET25-0105 FARKLI HAV YÜKSEKLİĞİNDEKİ POLYESTER HALILARIN SIKIŞTIRMA VE GERİ DONME PERFORMANSLARININ İNCELENMESİ BETÜL BULUT TURAN, GÜLBİN FİDAN

08.10.2025 - WEDNESDAY (10:45 – 12:00)

Chair: Prof. Dr. Abdulkadir ÇEVİK - **Online Session:** <https://bit.ly/4o1VbEN>

HALL 4	TICMET25-0078 INVESTIGATING ALKALI SILICA REACTION RESISTIVITY OF LIMESTONE AND QUARTZ AGGREGATES UTILIZED IN GAZİANTEP REGION AHMET TASDEMİR, ANIL NİS, ABDULKADİR CEVİK
	TICMET25-0046 HAVA ARAÇLARINDA KESTİRİMÇİ BAKIM UYGULAMASI YİĞİT GÜNERİ, KEMAL FİDANBOYLU
	TICMET25-0044 ESTIMATION OF MATERIAL MECHANICAL PROPERTIES USING FRAGILITY CURVES ALİ GURBUZ
	TICMET25-0038 PERFORMANCE EVALUATION OF RE ENTRANT AUXETIC CUCRZR LATTICES FOR ADDITIVE MANUFACTURED STRAIN SENSORS AYSU HANDE YÜCEL, GOKALP TURKAL, MUSTAFA BAKKAL
	TICMET25-0025 BİR BİYOGÜC SANTRALİNİN GENİŞLETİLMİŞ EKSERJİ MUHAŞEBESİ İLE DEĞERLENDİRİLMESİ AYSEGÜL ABUSOĞLU
	TICMET25-0047 ÇOKLU SENSÖR FUZYONU İLE ENDÜSTRİYEL ROBOT KALİBRASYONU UGUR ULU, KEMAL FİDANBOYLU
	TICMET25-0139 PERFORMANCE OF OLIVE OIL AND ALTERNATIVE FRYING OILS FRYING METHODS CHEMICAL CHANGES AND WASTE MANAGEMENT SONGUL KESEN

08.10.2025 - WEDNESDAY (10:45 – 12:00)

Chair: Prof. Dr. Nihat ATMACA - **Online Session:** <https://bit.ly/48an4pB>

HALL 5	TICMET25-0100 PRELIMINARY ANALYSIS OF CRANE DYNAMICS FROM ROPE ANGLE AND LOAD DATA FATMA PERİHAN CANDAN, SÜLEYMAN CANAN, ABDULKADİR SADAY
	TICMET25-0014 DIELECTRIC PROPERTIES OF BATIO₃ HAP AND BN HA NANOCOMPOSITE A COMPARATIVE STUDY ŞEHRİBAN KAYALIĞ, SERAP KOC
	TICMET25-0015 GAME BASED REHABILITATION WITH THE CWRR ROBOT DEVELOPMENT OF A MATLAB BASED INTERFACE HAMİDE ASLAN, MEHMET İLTERİS SARİGECİLİ
	TICMET25-0120 COMPREHENSIVE PROFIT OPTIMIZATION FOR E COMMERCE FIRMS UNDER RESOURCE CONSTARINTS HAVVA ABUKAN, YUNUS EROĞLU, ZULAL KENGER
	TICMET25-0021 THE EFFECT OF COPPER CONTENT ON THE MICROSTRUCTURE HARDNESS AND MAGNETIC PROPERTIES OF HIGH ENTROPY ALLOYS ZEHRİ MUTLU, MERVE GÜL TULEK, SUMRAN BİLGİN, CANBERK GAMSIZ, SULTAN ÖZTÜRK
	TICMET25-0148 A STACKELBERG BASED ANALYSIS OF STRATEGIC NEGOTIATIONS IN COLLABORATIVE NEW PRODUCT DEVELOPMENT SAMET KURSAT BASOL, PROF DR ALPTEKİN DURMUSOĞLU, PROF DR TURKAY DERELİ
	TICMET25-0149 MODELING STRATEGIC DECISION MAKING IN TECHNOLOGY TRANSFER ECOSYSTEMS AN EVOLUTIONARY GAME THEORY PERSPECTIVE SAMET KURSAT BASOL, ALPTEKİN DURMUSOĞLU, TURKAY DERELİ

INVITED SPEAKERS SESSION

08.10.2025 - WEDNESDAY (14:00 – 15:00)

Chair: Prof. Dr. Necip Fazıl YILMAZ

MAIN HALL	Prof. Dr. Rahmi ÜNAL Aluminum Alloy Development Studies for Additive Manufacturing: Challenges and Opportunities. Speaking language: English
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