

Schedule overview

| Day I | October 10, 2024 Thursday | |
|--|---------------------------|----------------------------|
| Opening Ceremony | | 10:00 – 10:30 Türkiye Time |
| Keynote Forum 1 | | 10:30 – 12:00 Türkiye Time |
| Group Photo | | 12:00 – 12:10 Türkiye Time |
| Lunch Break | | 12:10 – 13:30 Türkiye Time |
| Keynote Forum 2 | | 13:30 – 14:30 Türkiye Time |
| Keynote Forum 3 | | 14:40 – 15:40 Türkiye Time |
| Keynote Forum 4 | | 15:50 – 16:50 Türkiye Time |
| Keynote Forum 5 | | 17:00 – 18:00 Türkiye Time |
| Day II | October 11, 2024 Friday | |
| Parallel Sessions | | 10:00 – 11:15 Türkiye Time |
| <ul style="list-style-type: none"> • Sustainability • Production Management • Quality Management • Simulation and Modelling | | |
| Parallel Sessions | | 11:30 – 12:45 Türkiye Time |
| <ul style="list-style-type: none"> • Sustainability • Artificial Intelligent Applications • Quality Management • Productivity and Performance Management | | |
| Lunch Break | | 12:45 – 14:00 Türkiye Time |
| TU Wien Pilot Factory Virtual Tour | | 14:00 – 14:45 Türkiye Time |
| Parallel Sessions | | 15:00 – 16:40 Türkiye Time |
| <ul style="list-style-type: none"> • Sustainability • Industrial Applications • Supply Chain and Logistics Management • Operations Research Applications | | |
| Special Session | | 17:00 – 18:00 Türkiye Time |
| Parallel Sessions | | 18:10 – 19:30 Türkiye Time |
| <ul style="list-style-type: none"> • Sustainability • Industrial Applications • Supply Chain and Logistics Management • Industry 4.0 and Industry 5.0 Applications | | |
| Day III | October 12, 2024 Saturday | |
| Special Session | | 10:30 – 11:00 Türkiye Time |
| Parallel Sessions | | 11:00 – 12:15 Türkiye Time |
| <ul style="list-style-type: none"> • Sustainability • Capstone Projects • Simulation and Modelling | | |
| Lunch Break | | 12:15 – 13:45 Türkiye Time |
| TU Wien Tec-Lab Virtual Tour | | 13:45 – 14:05 Türkiye Time |
| Parallel Sessions | | 14:05 – 14:55 Türkiye Time |
| <ul style="list-style-type: none"> • Productivity and Performance Management • Artificial Intelligent Applications • Capstone Projects • Simulation and Modelling | | |
| Closing Session | | 14:55 – 15:15 Türkiye Time |
| Virtual Concert | | 15:15 – 16:00 Türkiye Time |

In the symposium schedule, all times are given in **UTC+3, Türkiye local time**.

Please refer to below **Time-zone Conversion Table** to match your local time.

| Symposium time Budva, Montenegro (CEST) | Vancouver, BC, Berkeley, CA | Auburn, AL, Iowa City, IA | Dayton, OH, New York, NY | Buenos Aires | Dublin, London | Central European Summer Time (CEST) Belgrade, Bratislava, Budapest, Budva , Prague, Rome, Vienna, Warsaw | Türkiye Time Antalya, İstanbul, Kuwait City, Moscow Eastern European Summer Time (EEST) Athens, Bucharest | Tehran | Beijing |
|---|-----------------------------|---------------------------|--------------------------|--------------|----------------|--|--|--------|---------|
| 9:00 | 12:00 AM | 2:00 AM | 3:00 AM | 4:00 AM | 8:00 | 9:00 | 10:00 | 10:30 | 15:00 |
| 10:00 | 1:00 AM | 3:00 AM | 4:00 AM | 5:00 AM | 9:00 | 10:00 | 11:00 | 11:30 | 16:00 |
| 11:00 | 2:00 AM | 4:00 AM | 5:00 AM | 6:00 AM | 10:00 | 11:00 | 12:00 | 12:30 | 17:00 |
| 12:00 | 3:00 AM | 5:00 AM | 6:00 AM | 7:00 AM | 11:00 | 12:00 | 13:00 | 13:30 | 18:00 |
| 13:00 | 4:00 AM | 6:00 AM | 7:00 AM | 8:00 AM | 12:00 | 13:00 | 14:00 | 14:30 | 19:00 |
| 14:00 | 5:00 AM | 7:00 AM | 8:00 AM | 9:00 AM | 13:00 | 14:00 | 15:00 | 15:30 | 20:00 |
| 15:00 | 6:00 AM | 8:00 AM | 9:00 AM | 10:00 AM | 14:00 | 15:00 | 16:00 | 16:30 | 21:00 |
| 16:00 | 7:00 AM | 9:00 AM | 10:00 AM | 11:00 AM | 15:00 | 16:00 | 17:00 | 17:30 | 22:00 |
| 17:00 | 8:00 AM | 10:00 AM | 11:00 AM | 12:00 PM | 16:00 | 17:00 | 18:00 | 18:30 | 23:00 |
| 18:00 | 9:00 AM | 11:00 AM | 12:00 AM | 13:00 PM | 17:00 | 18:00 | 19:00 | 19:30 | 00:00 |

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|--|------------------|----------------------------|--|
| Opening Ceremony | Oct 10, 2024 Thu | 10:00 – 10:30 Türkiye Time | 9:00 – 9:30 CEST |
| <p>Prof. Dr. Hatice Camgöz Akdağ İstanbul Technical University</p> <p>Prof. Dr. Numan M. Durakbasa TU Wien, President of UAD (Society for Production Research of Türkiye)</p> <p>Prof. Dr. Kurt Matyas Vice Rector for Academic Affairs, TU Wien</p> <p>Prof. Dr. Daniela Popescu Vice Rector for University Management and Relations with the Economic Environment, TU Cluj-Napoca, Romania</p> | | | Moderator: Prof. Dr. Hatice Camgöz Akdağ |
| Keynote Forum 1 | Oct 10, 2024 Thu | 10:30 – 12:00 Türkiye Time | 9:30 – 11:00 CEST |
| <p>Prof. Dr. Daniela Popescu Vice Rector for University Management and Relations with the Economic Environment, TU Cluj-Napoca, Romania</p> <p>Prof. Dr. Duc T. Pham Birmingham University, UK <i>“Recent progress in disassembly research at the University of Birmingham”</i></p> | | | Moderator: Prof. Dr. Hatice Camgöz Akdağ |
| Group Photo | Oct 10, 2024 Thu | 12:00 – 12:10 Türkiye Time | 11:00 – 11:10 CEST |
| Screenshots from Zoom gallery view of the participants will be taken. | | | |
| Lunch Break | Oct 10, 2024 Thu | 12:10 – 13:30 Türkiye Time | 11:10 – 12:30 CEST |
| Keynote Forum 2 | Oct 10, 2024 Thu | 13:30 – 14:30 Türkiye Time | 12:30 – 13:30 CEST |
| <p>Gülşah Günay Head of Sustainability Standards Department, The Public Oversight, Accounting and Auditing Standards Authority of Türkiye, Ankara, Türkiye <i>“Green Conversion of Sustainability Reporting”</i></p> <p>Seçil Yıldız Executive Vice President of Development Investment Bank of Türkiye, İstanbul, Türkiye <i>“Green Transition, ESG & Impact Investments, What is Next?”</i></p> | | | Moderator: Prof. Dr. Hatice Camgöz Akdağ |
| Coffee Break | Oct 10, 2024 Thu | 14:30 – 14:40 Türkiye Time | 13:30 – 13:40 CEST |

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|---|------------------|----------------------------|---|
| Keynote Forum 3 | Oct 10, 2024 Thu | 14:40 – 15:40 Türkiye Time | 13:40 – 14:40 CEST |
| Prof. Dr. Arzu Gönenç Sorguç Middle East Technical University, Ankara, Türkiye <i>“Beyond Bricks and Mortar: Can buildings be designed and constructed like a machine?”</i> | | | Moderator: Prof. Dr. Hatice Camgöz Akdağ |
| Prof. Dr. Birgit Oberer Research and Projects, ETCOP Institute for Interdisciplinary Research, Austria <i>“The European Green Deal: A Roadmap to a Sustainable Future”</i> | | | |
| Coffee Break | Oct 10, 2024 Thu | 15:40 – 15:50 Türkiye Time | 14:40 – 14:50 CEST |
| Keynote Forum 4 | Oct 10, 2024 Thu | 15:50 – 16:50 Türkiye Time | 14:50 – 15:50 CEST |
| Prof. Dr. Gül E. Kremer, School of Engineering, University of Dayton, Ohio, USA <i>“A Framework for Aggregating Timely and Potential Risks To Create Robust Supply Chains”</i> | | | Moderator: Prof. Dr. Hatice Camgöz Akdağ |
| Dr. Ing. Ömer Ganiyusufoğlu, Industrial Development Consultant, QIAP – Qingdao International Academician Park, China <i>“Engineer of the Future - Changing times make new profile of engineers necessary -”</i> | | | |
| Coffee Break | Oct 10, 2024 Thu | 16:50 – 17:00 Türkiye Time | 15:50 – 16:00 CEST |
| Keynote Forum 5 | Oct 10, 2024 Thu | 17:00 – 18:00 Türkiye Time | 16:00 – 17:00 CEST |
| Prof. Dr. Andrew Kusiak, The University of Iowa, Iowa, USA | | | Moderator: Prof. Dr. Hatice Camgöz Akdağ |
| Prof. Dr. William P. Fisher, University of California, Berkeley, California, USA <i>“Ecologizing Change: Can Humanity Afford NOT Extending the SI to Human, Social, and Natural Capital?”</i> | | | |
| End of Day I events | Oct 10, 2024 Thu | 18:00 Türkiye Time | 17:00 CEST |

| Parallel Sessions | Oct 11, 2024 Fri | 10:00 – 11:15 Türkiye Time | 9:00 – 10:15 CEST |
|--|------------------|----------------------------|---|
| <p style="text-align: center;">Sustainability</p> <ul style="list-style-type: none"> • Site Selection for Waste Electrical and Electronic Equipment Recycling Plant Using the Swara and Aras Methods: A Case Study of Istanbul <i>Mustafa Güler, Yeşim Altay</i> • A Simple Guide for Textile Manufacturer SMEs to Calculate Carbon Footprint <i>Esmâ Demirkaya-Turan, Mona Raeissi, Hatice Camgöz Akdağ</i> • Integrating Circular Economy Principles in the Fashion Industry: A Case Study of Patagonia <i>Teresa Fürst, Hatice Camgöz Akdağ</i> | | | <p>Meeting chair: Prof. Dr. Hatice Camgöz Akdağ</p> |
| <p style="text-align: center;">Production Management</p> <ul style="list-style-type: none"> • A Comprehensive Analysis of Integrated Airline Scheduling Strategies and Operations <i>Gürkan Güven Güner, Serpil Erol</i> • Analysing the Convergence between Lean 4.0 and Sustainability in Operations Management <i>Melisa Ozbiltekin-Pala, Yesim Deniz Ozkan-Ozen</i> • Bus Spare Parts Demand Forecasting via Holt Winter's Method and Support Vector Regression Algorithm <i>İlker Mutlu, Önder Bulut</i> | | | <p>Meeting chair: Prof. Dr. Serpil Erol</p> |
| <p style="text-align: center;">Quality Management</p> <ul style="list-style-type: none"> • Quality in Production and Service <i>Osman Bodur, Ángela Moya García, Günther Poszvek, Numan M. Durakbasa</i> • Jacket Armhole Measurement with Laser Scanning and 2D Imaging in Textiles <i>Semih Donmez, Pinar Demircioglu, Ismail Bogrekci, M. Numan Durakbasa</i> • Kaizen and 5S Application from Lean Production Techniques Against Waste and Loss of Time in Production and Office Areas in a Food Business <i>Hasan Hüseyin Çelebi, Umut Can Yurt, Büşra Telli</i> | | | <p>Meeting chair: Assoc. Prof. Dr. Atik Kulaklı</p> |
| <p style="text-align: center;">Simulation and Modelling</p> <ul style="list-style-type: none"> • Optimization and Performance Evaluation of a Patient-Specific Subperiosteal Implant from Ti6Al4V <i>Boglarca Willing, Osman Bodur, Günther Poszvek, Sorin Dumitru Grozav, Răzvan Păcurar, Vasile Ceclan, Mihai Şelariu</i> • Optimal Design of an Assembly Line in an Aerospace Industry using Simulation Optimization <i>Berna Dengiz, Meltem Uzuner, Orhan Dengiz, Burcin Cakir Erdener</i> • Unmanned Aircraft Wing Design Procedure: Analytical and Numerical Approach <i>Erdem Uyunmaz, Aslı Günay Bulutsuz</i> | | | <p>Meeting chair: Prof. Dr. Berna Dengiz</p> |
| Coffee break | Oct 11, 2024 Fri | 11:15 – 11:30 Türkiye Time | 10:15 – 10:30 CEST |

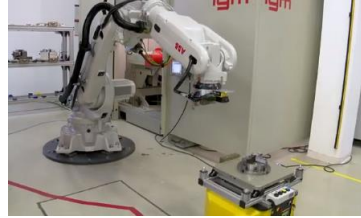
| Parallel Sessions | Oct 11, 2024 Fri | 11:30 – 12:45 Türkiye Time | 10:30 – 11:45 CEST |
|--|------------------|----------------------------|---|
| <p style="text-align: center;">Sustainability</p> <ul style="list-style-type: none"> • Energy efficiency analysis of slide friction diamond burnishing <i>Gyula Varga, Szilárd Smolnicki, G.L. Samuel</i> • Assessing Customer Satisfaction and Loyalty in the Energy Sector Through Service Quality: A Modified SERVQUAL Analysis <i>Paşa Çiçeklidağ, Emine Elif Nebati, Kemal Güven Gülen, Selim Zaim</i> • An Investigation into Smart and Sustainable Operations in Higher Education Institutions Campuses <i>Mitra Karimi Alavijeh, Hür Bersam Sidal</i> | | | <p>Meeting chair: Prof. Dr. Kemal Güven Gülen</p> |
| <p style="text-align: center;">Artificial Intelligent Applications</p> <ul style="list-style-type: none"> • A Hesitant Fuzzy SWARA Methodology for Big Data Maturity Assessment <i>Emine Elif Nebati, Biset Toprak</i> • Enhancing Stock Price Prediction with Extreme Learning Machine and Multi-Indicator Fusion: A Comparative Study <i>Elham Pashaei, Binnur Gürül</i> • Development of Agriculture in Turkey and Changing Dynamics: Factor Analysis Approach <i>Hasan Hüseyin Çelebi, Ayşe Paksoy</i> | | | <p>Meeting chair: Prof. Dr. İsmail Böğrekçi</p> |
| <p style="text-align: center;">Quality Management</p> <ul style="list-style-type: none"> • Lean Implementation Steps for a Way to Sustainable Green: A Real-Life Case Study <i>Semra Birgün, Cemile Tuğçe Kaygısız</i> • An Application on Supporting Information Security Management with RPA <i>Sinem Büyüksaatçı Kiriş, Yeşim Altay</i> • Application of the SERVQUAL Model in the E-Cosmetics Sector <i>Nilüfer Köse, Belkıs İclal Zeren, Paşa Çiçeklidağ, Selman Süha Gürbüzler, Merve Şahin</i> | | | <p>Meeting chair: Assoc. Prof. Dr. Atik Kulaklı</p> |
| <p style="text-align: center;">Productivity and Performance Management</p> <ul style="list-style-type: none"> • Cycle Time Calculation, Process Analysis and Efficiency Optimization in Semiconductor Technologies <i>Eyüp Berk Utku, Beyhan Oktay, Dilek Alımlı, Bahadır Tunaboşlu</i> • Bibliometric Literature Review on Software Development Productivity and Observability <i>Verda Kılıç, Nihan Yıldırım</i> • Investigating the Effect of Lean Thinking on Employee Motivation in a Business <i>Didem Yılmaz, Ebru Adıgüzel, Duygu Tüylü</i> | | | <p>Meeting chair: Prof. Dr. Berna Dengiz</p> |
| Lunch Break | Oct 11, 2024 Fri | 12:45 – 14:00 Türkiye Time | 11:45 – 13:00 CEST |

Pilot Factory Virtual Tour Oct 11, 2024 Fri **14:00 – 14:45 Türkiye Time** 13:00 – 13:45 CEST

Virtual Tour in the **Industry 4.0 Pilot Factory** at the TU Wien.

Moderator:
Gökçen Baş
TU Wien

Presenter:
Dr. Claudia Elisabeth Schickling,
Leon Zapletal,
Anastasia Lozo
Industry 4.0 Pilot Factory, TU Wien



Coffee Break Oct 11, 2024 Fri **14:45 – 15:00 Türkiye Time** 13:45 – 14:00 CEST

| Parallel Sessions | Oct 11, 2024 Fri | 15:00 – 16:40 Türkiye Time | 14:00 – 15:40 CEST |
|---|------------------|----------------------------|--|
| Sustainability | | | Meeting chair: Asst. Prof. Dr. Zeynep Gergin |
| <ul style="list-style-type: none"> • Determining Debris Collection Areas for the European Side of İstanbul <i>Duygun Fatih Demirel, Eylül Damla Gönül Sezer</i> • UTA Method for Sustainable Decisions in Ceramic Tile Production <i>Yaren Kaçar, Sena İrem Biçer, Ayberk Filiz, Emine Şeyma Durmuş, Duygu Kuş, Zeynep Gergin</i> • Prevention of Fragile Ageing and the Importance of Healthy Ageing for Sustainable Life <i>Merve Manga, Fatma Serab Onursal</i> • Simultaneous Pick Up-Delivery Vehicle Routing Sustainability Model for Ammunition Recycling <i>Kemal Gürol Kurtay, Hakan Ayhan Dağıştanlı, Aygün Altundaş</i> | | | |
| Industrial Applications | | | Meeting chair: Prof. Dr. Selim Zaim |
| <ul style="list-style-type: none"> • Effects of New Generation Spindle on Vertical Machining Center Production Performance <i>Çağla Şen, Merve Kurt, Uğur Alev, Cihan Mertöz, Ali Serdar Vanlı, Anıl Akdoğan</i> • Investigation into industrial uses for oxygen once split and stored from Hydrogen in sustainable environmental conservation <i>Lorraine Roche</i> • An Approach to On-Site Radiated Emissions Measurement Using a Compact Reference Field Source <i>Tamerlan Hajiye</i> • Artificial Intelligence Management in Mechatronic Systems in the Automotive Industry: Privacy and Sustainability Challenges <i>ŢiŢu Aurel Mihail, Bâlc Emanuel, Bâlc Daniel</i> | | | |
| Supply Chain and Logistics Management | | | Meeting chair: Prof. Dr. Haluk Soyuer |
| <ul style="list-style-type: none"> • Modified Simulated Annealing Algorithm for Drone and Truck Routing Problem <i>İlayda Aral, Onur Özkan, Damla Kızılay</i> • Cost-Efficient Production and Inventory Control in Multi-Echelon Supply Chains with Customer Prioritization <i>İpek Doğa Bedirhan, Sinem Özkan</i> • Facility Layout of a Concrete Batching Plant in Samsun Province Using the P-Center Method <i>Yunus Emre Özdemir, Kübra Koca, Engin Baytürk</i> • Human Rights in the Scope of German Supply Chain Due Diligence Act <i>Okan Yıldırım, Hatice Camgöz Akdağ</i> | | | |
| Operations Research Applications | | | Meeting chair: Prof. Dr. Semra Birgün |
| <ul style="list-style-type: none"> • Mixed-Integer and Constraint Programming Approaches for Determination of Locations of Long-Term Care Facilities <i>Mert Paldrak, Gamze Erdem, Gökberk Özşakılı</i> • Solving the Large-scale Crew Pairing Problem in the Airline Industry Using the Column Generation Method <i>Gökçe Mol, Murat Ermiş</i> • Dynamic Efficiency Analysis of Non-Life Insurance Companies: A Window Data Envelopment Analysis Approach <i>Abdullah İlkaz, Ferhan Çebi</i> • Resolving Stakeholder Conflicts in Airport Gate Assignment: A Multi-objective Approach with Goal Programming and MIP Models <i>Mert Paldrak, Gamze Erdem, Melis Tan Tacoğlu, Mustafa Arslan Örnek</i> | | | |
| Coffee Break | Oct 11, 2024 Fri | 16:40 – 17:00 Türkiye Time | 15:40 – 16:00 CEST |

Special Session Oct 11, 2024 Fri 17:00 – 18:00 Türkiye Time 16:00 – 17:00 CEST

Special Session

Moderator: Prof.
Dr. Haluk Soyuer

Prof. Dr. Alice E. Smith,

Auburn University, Alabama, USA

“Comparison of Relocations of Containers in Depots Using Crane, Reach Stacker, and Top Lifter: Which Material Handling Method is Best?”

Prof. Dr. Ing. Jorge Bauer,

TU Wien, Austria & UTN-FRBA Buenos Aires, Argentina

Coffee Break Oct 11, 2024 Fri 18:00 – 18:10 Türkiye Time 17:00 – 17:10 CEST

| Parallel Sessions | Oct 11, 2024 Fri | 18:10 – 19:30 Türkiye Time | 17:10 – 18:30 CEST |
|---|------------------|---|---|
| Sustainability | | <ul style="list-style-type: none"> Assessing and Weighting Key Barriers to Sustainable Manufacturing in Türkiye <i>Zehra Binnur Avunduk, Biset Toprak, Eyüp Kahveci, Selim Zaim, Mustafa Kemal Yılmaz</i> Airline Passengers' Perception of Sustainability Practices: The Turkish Civil Aviation Market <i>Ali Tipi, Ali Osman Kusakci</i> Trends and Research Progress in Sustainable and Green Energy Management: A Bibliometric Analysis <i>Mesut Ulu, Semra Birgün, Aysel Çakır</i> | Meeting chair: Prof. Dr. Anıl Akdoğan |
| Industrial Applications | | <ul style="list-style-type: none"> Blockchain and the Environment: Impacts Across Key Industries <i>Gokcen Bas</i> Challenges in STEM Teaching at Engineering Education <i>András Horváth, Gabriella Farkas</i> Developing a Tool for HSE and Social Performance Assessment in Healthcare Facilities <i>Fatemeh Masoudian, Shiva Faeghi, Kunibert Lennerts</i> | Meeting chair: Prof. Dr. Bahadır Tunaboylu |
| Supply Chain and Logistics Management | | <ul style="list-style-type: none"> Assessment of Key Features for Logistics 4.0 <i>Gül Didem Batur Sir, Hafsa Nur Peker</i> Forecasting Inbound Logistics for Express Cargo Transportation: A Case Study of Turkey <i>Buse Budur, Helin Demircioğlu, Berna Simsek, Aziz Kemal Konyaloğlu, Tuğçe Apaydın, Tuncay Özcan</i> Competitive Analysis and Determination of Competitive Strategies in the Turkish Automotive Industry <i>Helin Kaçım, Kemal Güven Gülen</i> | Meeting chair: Prof. Dr. İsmail Bögrekçi |
| Industry 4.0 and Industry 5.0 Applications | | <ul style="list-style-type: none"> A Qualitative Research on the Market Entry Strategies of Techno-Enterprises' Using Digital Transformation Technologies <i>Ceren Genç, Dilber Ulaş</i> Measurement and Analysis of Extrusion Forces in Filament-based Additive Manufacturing Technologies Using ABS Filament <i>Ioannis Christodoulou, Antonios Trikkas, Angelos Markopoulos</i> Socially Intelligent Manufacturing (SIM): Introducing an Ecological Certification Index <i>Mary Doyle Kent, Breda Walsh Shanahan</i> | Meeting chair: Prof. Dr. Alptekin Erkollar |
| End of Day II events | Oct 11, 2024 Fri | 19:30 Türkiye Time | 18:30 CEST |

Special Session Oct 12, 2024 Sat 10:30 – 11:00 Türkiye Time 9:30 – 10:00 CEST

Special Session

Assoc. Prof. Dr. Ali Gökhan Demir

Department of Mechanical Engineering Politecnico di Milano, Milan, Italy
“Lasers as digital tools for future mobility”

Moderator: Dr. Tuğçe Beldek Apaydın

Parallel Sessions Oct 12, 2024 Sat 11:00 – 12:15 Türkiye Time 10:00 – 11:15 CEST

Sustainability

- **A Comparative Analysis of Green Transition Efficiency Among European SMEs**
Mehmet Güdelek, Biset Toprak, Selim Zaim
- **A Review on Sustainability Rules and Regulations, a Supply Chain Impact Focus**
Mohsen Aghabegloo, Kamran Rezaie

Meeting chair:
Prof. Dr. Selim Zaim

Capstone Projects

- **Digitalization in AgriEngineering 5.0**
Serra Aksoy, Pinar Demircioglu, Ismail Bogrekci, Jorge Bauer
- **Disc Brake Design and Analysis with Finite Element Methods**
Ismail Bogrekci, Pinar Demircioglu, Emre Ceylan, Mehmet Kose, Mehmet Umut Kaya
- **Optimizing Ceramic Geometry for Enhanced Ballistic Protection**
Pinar Demircioglu, Ismail Bogrekci, Yavuz Eris

Meeting chair:
Prof. Dr. Pınar Demircioglu

Capstone Projects

- **Decision Support System for Store Location Selection in Retailing**
Zümra Begüm Döner, Mehmet Bütkül, Tuncay Özcan, Aziz Kemal Konyalıoğlu, Tuğçe Apaydın
- **Optimal Production Flow in Industrial Paint Manufacturing Simulation Optimization with Milk-Run and Periodic (Q, R) Inventory Modelling**
Nilsu Onur, Özge Çalışkan, Atakan Yüksek, Emir Duymuş, Zeynep Sıla Yörü, Doğa Koçal, Mert Paldrak, Mustafa Arslan Örnek
- **Design of a Tracking System for Monitoring the Performance of Cosmetic Products Sold in Pharmaceutical Channels**
Aleyna Küçükeruğurlu, Hatice Buse Güner, Ferhan Çebi

Meeting chair:
Prof. Dr. Ferhan Çebi

Simulation and Modelling

- **Analysis and Improvement of Waiting Times Using a Simulation Modeling Approach in a University Dining Hall**
Seyed Mohammad Matin Seyed Esfahani, Tuncay Ozcan
- **Research and Analysis of the Efficiency of Fiber-Optic Communication Lines Based on DWDM Systems**
Bayram Ibrahimov, Islam Islamov
- **About One Method for Modeling Antenna Systems Operating in the Microwave Range**
Islam Islamov

Meeting chair:
Prof. Dr. Alptekin Erkollar

Lunch Break Oct 11, 2024 Fri 12:15 – 13:45 Türkiye Time 11:15 – 12:45 CEST

Tec-Lab Virtual Tour Oct 12, 2024 Sat 13:45 – 14:05 Türkiye Time 12:45 – 13:05 CEST

Virtual Tour in the **Tec-Lab Production Engineering Laboratory** at the TU Wien

Presenter:

Dr. Osman Bodur

Institute for Production Engineering and Photonic Technologies,
TU Wien



Parallel Sessions Oct 12, 2024 Sat 14:05 – 14:55 Türkiye Time 13:05 – 13:55 CEST

Productivity and Performance Management

- **Assessing the business continuity risk in technical entrepreneurship using the Altman Z-Score**
Ştefania Chiribău-Vitlinger, Diana Dragomir, Mihai Dragomir, Sorin Popescu
- **The Historical Development and Application of DEA Method for Efficiency Analysis**
Kamran Rezaie, Alimohammad Lotfi

Meeting chair:
Prof. Dr. Selim Zaim

Artificial Intelligent Applications

- **How Artificial Intelligence Technology Affects Productivity**
Elizaveta Semenova, Mikhail Komarov
- **Unveiling the Transformative Influence of ChatGPT on Service Sector**
Melike Zehir, Mustafa Kemal Yılmaz

Meeting chair:
Prof. Dr. İsmail Bögrekçi

Capstone Projects

- **Mixed Fleet Vehicle Routing Problem with Time Windows for Milk Collection**
Melis Özveri, Yasemin Eda Üstün, Eftymia Staiou, Mert Paldrak
- **Scheduling for Parallel Plastic Injection Machines: A Sustainable Approach Using Goal Programming**
Beril Durmaz, Ferit Doğruel, Beste Atasolmaz, Doruk Dumlulu, Seray Tütüncü, Mert Paldrak, Eftymia Staiou

Meeting chair:
Assoc. Prof. Dr. Atik Kulaklı

Simulation and Modelling

- **Electromagnetic Compatibility Modeling in the Development of Sealed and Conformal Enclosures of Radio Electronic Systems**
Arif Hasanov, Islam Islamov
- **Electrodynamic Modeling of the Electromagnetic Field of a Circular Microwave Waveguide with a Complex Structured Anisotropic Medium**
I. J. Islamov, L. V. Mammadov

Meeting chair:
Prof. Dr. Kemal Güven Gülen

| Closing Session | Oct 12, 2024 Sat | 14:55 – 15:15 Türkiye Time | 13:55 – 14:15 CEST |
|---|------------------|----------------------------|--------------------|
| <p>Prof. Dr. Hatice Camgöz Akdağ İstanbul Technical University</p> <p>Prof. Dr. Numan M. Durakbasa TU Wien, President of UAD (Society for Production Research of Türkiye)</p> | | | |
| Virtual Concert | Oct 12, 2024 Sat | 15:15 – 16:00 Türkiye Time | 14:15 – 15:00 CEST |
| <p><i>Virtual concert from recordings of Viennese artists.</i></p> | | | |