

The logo for DATAMACLEA'26 features a circular graphic composed of many thin, vertical lines. Inside this circle, there are four blue squares of varying sizes arranged in a pattern that suggests a data visualization or a stylized 'M'. Below the graphic, the text 'DATAMACLEA'26' is written in a bold, blue, sans-serif font.

# DATAMACLEA'26

Econometric Research Association  
3<sup>rd</sup> International Data Analytics  
and Machine Learning Conference

**Artificial Intelligence and Economic Efficiency:  
Sectoral Applications and Value Generation**

May 11-13, 2026  
Ankara Yıldırım Beyazıt University  
Milli İrade Campus  
Ankara, Türkiye



Pazartesi, 11 Mayıs 2026  
Monday, May 11, 2026

08.30-17:00  
Kayıt | Registration

**Açılış ve Protokol Konuşmaları**  
**Welcome And Opening Remarks**

09.30-10.30 Büyük Konferans Salonu | Grand Conference Hall

**Assoc. Prof. Sıdika BAŞÇI, Ph.D.**  
Ankara Yıldırım Beyazıt University & ERA

**Prof. İbrahim DEMİR, Ph.D.**  
Ankara Yıldırım Beyazıt University & ULISA

**Prof. Ali Cengiz KÖSEOĞLU, Ph.D.**  
Rector, Ankara Yıldırım Beyazıt University

**Mustafa Latif EMEK, Ph.D.**  
Institute of Economic Development and Social Research President

**Mourad AMER, Ph.D.**  
Chief Executive Officer & Founder at IEREK

10.30-10.45  
Aile Fotoğrafı | Family Photo

**Davetli Konuşmacı | Keynote Speaker**

10.45-12.15 Büyük Konferans Salonu | Grand Conference Hall

**Rethinking Healthcare Workflows with AI**  
**Dr. Şeyma Handan AKYÖN**  
Sincan Education and Research Hospital

**Prof. İbrahim DEMİR, Ph.D.**  
Oturum Başkanı | Session Chair

**12.15-13.00 Öğle Arası | Lunch Break**



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Pazartesi, 11 Mayıs 2026  
Monday, May 11, 2026

**Davetli Konuşmacı | Keynote Speaker**

13.00–14.30 Büyük Konferans Salonu | Grand Conference Hall

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**AI Adoption Efficiency and its Role as the Modern  
Determinant of Hegemonic Stability**

**Ekaterina LOMIA, Ph.D.**

Mongolian International University (MIU), Mongolia

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**Assoc. Prof. Mustafa Göktuğ KAYA, Ph.D.**

Oturum Başkanı | Session Chair

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14.30–14.45 Kahve Arası | Coffee Break

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**Davetli Konuşmacı | Keynote Speaker**

14.45–16.00 Büyük Konferans Salonu | Grand Conference Hall

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**Building the Company That Never Sleeps**

**Fatih Çağatay AKYÖN**

Viddexa AI, Ultralytics Inc, METU

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**Prof. Fatih Cemil ÖZBUĞDAY, Ph.D.**

Oturum Başkanı | Session Chair

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16.00–16.15 Kahve Arası | Coffee Break

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Pazartesi, 11 Mayıs 2026  
Monday, May 11, 2026

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Oturum 1 | Session 1  
16.15-17.45

Büyük Konferans Salonu  
Grand Conference Hall

## AI, Data and Machine Learning Applications

### Simulation, Optimization, and AI-Based Decision Systems

Yeliz YALÇIN-Hacı Bayram Veli University  
M. Kenan TERZİOĞLU-Trakya University  
Ayşegül İŞCANOĞLU ÇEKİÇ-Trakya University

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### Moment Inequality Estimators in Competition Analysis: A Practitioner's Guide with Synthetic Data Applications

Fatih Cemil ÖZBUĞDAY-Ankara Yıldırım Beyazıt University

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### Reinforcement Learning in Dynamic Economic Analysis

Erdem BAŞÇI-TED University

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### Intragroup Social Network Analysis Using Sociogram Techniques

Emre AYIKLAR-Econometric Research Association  
Sıdika BAŞÇI-Ankara Yıldırım Beyazıt University

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### Deep Unsupervised Anomaly Detection in ODS Trade Data: A Variational Autoencoder Approach

Bige KÜÇÜKEFE-Tekirdağ Namık Kemal University

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Assoc. Prof. Bige KÜÇÜKEFE, Ph.D.

Oturum Başkanı | Session Chair

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Pazartesi, 11 Mayıs 2026  
Monday, May 11, 2026

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Oturum 2 | Session 2  
16.15-17.45

Menekşe Salonu  
Menekşe Room

## AI in Economics and Macroeconomic Analysis

### Demand Deficiency and Inflation in G20 Countries

Aybüke MİNTEMÜR-Ankara Yıldırım Beyazıt University

Sıdıka BAŞÇI-Ankara Yıldırım Beyazıt University

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### Lighting Up Development: Do Human Development Indicators Drive Nighttime Light Intensity Across Indian States

Veli Emre SAVAŞ-TED University

Feyza ÜNAL-TED University

Hakan EMEKÇİ-TED University

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### Do the Central Bank Independence and Democracy Have Impact on the Level of Inflation for G20 Countries?

Mehmet Orkun APAYDIN-TED University

Hakan EMEKÇİ-TED University

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### AI and Emergency Data Governance in the Age of Polycrisis: A Framework from a Development Economics Perspective

Murad TIRYAKIOĞLU-Afyon Kocatepe University

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### Artificial Intelligence Shocks in a New Keynesian Framework: The Displacement, Productivity, And Reinstatement Channels

Cumhur ÇİÇEKÇİ-Türkiye Ministry of Treasury and Finance

Yusuf Ömür YILMAZ-Mardin Artuklu University

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**Cumhur ÇİÇEKÇİ**

Oturum Başkanı | Session Chair

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19.00- 21.30

Konferans Gala Yemeği | Conference Gala Dinner



12 Mayıs Salı  
Tuesday, May 12

Online Panel- ZOOM  
10.00-11.30

Büyük Konferans Salonu  
Grand Conference Hall

Toplantı Kimliği | Meeting ID  
832 5961 1523

Parola | Password  
527587



<https://us06web.zoom.us/j/83259611523?pwd=Iz5AX54Z3XrU6fxcBRcPkUk2R1el80v.1>

## Problems of Editors After AI and Suggestions to Academicians While Publishing

**Prof. Gökhan TUNCEL, Ph.D.**

Editor of Journal of Academic Approaches

**Assist. Prof. Elif KAYA, Ph.D.**

Editor of Journal of Political and Social Studies

**Prof. Mert TOPÇU, Ph.D.**

Associate Editor of Journal of Research in Economics, Politics & Finance

**Assoc. Prof. Burcu ŞENTÜRK, Ph.D.**

Editor of Ege Academic Review

**Dr. Mourad AMER, Ph.D.**

Series Editor of ASTI, SUCI, and SLNR book series by Springer

**Assoc. Prof. Sıdıka BAŞÇI, Ph.D.**

Oturum Başkanı | Session Chair

11.30-12.45 Öğle Arası | Lunch Break

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Salı, 12 Mayıs 2026  
Tuesday, May 12, 2026

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Oturum 3 | Session 3  
12.45-14.00

Büyük Konferans Salonu  
Grand Conference Hall

## Finance, Banking and Financial Markets

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### How Blockchain Is Transforming Digital Finance: A Comparative Analysis Between Türkiye and Germany

Muhammed RAHMETULLAH-Ankara Yıldırım Beyazıt University

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### The Role of Banks' Lending Standards in Determining Creditworthiness of Firms: Evidence from Turkish Banks

Selman DAL-Central Bank of The Republic of Türkiye  
Seyid Fahri MAHMUD-Social Sciences University of Ankara

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### Oil Rents, Institutional Quality, and Economic Performance in Algeria: A Machine Learning Investigation of the Resource Curse Hypothesis

Abderrahim CHIBI-University Center of Maghnia  
Sidi Mohammed CHEKOURI-University Center of Maghnia  
Rabia Meriem BENBOUZIANE-İstanbul Technical University

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### Forecasting Equity Market Returns with Text-Based Cryptocurrency News Sentiment Using Large Language Models and Deep Learning Time Series Models

Mahat Maalim IBRAHİM-Ibn Haldun University  
Salim SAİDY-Ibn Haldun University  
Arab Dahir HASSAN-Ibn Haldun University  
Asad Ul Islam KHAN-Ibn Haldun University

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### When Deep Learning Meets Small Data: Revisiting Predictive Superiority in Oil Price Volatility Forecasting

Abdelhadi BENGHALEM-ORAN Graduate School of Economics  
Mohamed BENBOUZIANE-University of Tlemcen  
Rabia Meriem BENBOUZIANE-İstanbul Technical University

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**Abdelhadi BENGHALEM**

Oturum Başkanı | Session Chair

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Salı, 12 Mayıs 2026  
Tuesday, May 12, 2026

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Oturum 4 | Session 4  
12.45-14.00

Menekşe Salonu  
Menekşe Room

## Sustainability, Energy and Green Economy

### Can Artificial Intelligence Improve Energy Market Forecasting in Times of Conflict? Evidence from Machine Learning Models

Hadjer BOULILA-University of Tlemcen  
Rabia Meriem BENBOUZIANE-Istanbul Technical University  
Seyfeddine BENBEKHTI-University of Tlemcen  
Mohamed BENBOUZIANE-University of Tlemcen

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### A Hybrid Machine Learning-Econometric Approach to Modelling Food and Energy Inflation Dynamics in Emerging Markets

Erol Can İLDES-Ankara Social Sciences University  
Seyid Fahri MAHMUD-Ankara Social Sciences University

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### AI, Sustainable Growth, and Long-Term Value Creation

Erkan ERDİL-Middle East Technical University  
Gizem ÖĞÜTÇÜ ULAŞ-Başkent University

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### Forecasting Green Hydrogen Production Potential in Algeria: A Machine Learning Approach

Mohamed BENBOUZIANE-University of Tlemcen  
Abderrezzak BENHABIB-University of Tlemcen  
Benabbou SENOUCI-Graduate School of Economics

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**Mohamed BENBOUZIANE**

Oturum Başkanı | Session Chair

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14.00-14.15 Kahve Arası | Coffee Break

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Salı, 12 Mayıs 2026  
Tuesday, May 12, 2026

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Oturum 5 | Session 5  
14.15-15.30

Büyük Konferans Salonu  
Grand Conference Hall

## Digital Transformation, Industry and Innovation

**AI-Driven Carbon Pricing and Digital Transformation: Evolutionary Game Theory Evidence on Economic Efficiency in Turkey's Manufacturing Sector**  
Amna ABDULLAH-Ibn Haldun University

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**AI in Software Development and Digital Industries: Economic Efficiency, Vibe Coding Pitfalls, and the Industrial Revolution Analog**  
Fatih Çağatay AKYÖN-Middle East Technical University

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**A Fuzzy Panel Analysis of Over-innovation in Sub-Saharan Africa**  
Ayuba NAPARI-University of Environment and Sustainable Development

---

**AI-Driven E-HRM Systems and Organizational Efficiency in Algeria: Adoption Barriers, Institutional Challenges, and Value Generation Prospects**  
Mustapha DJENNAS-University of Tlemcen  
Sidi Mohammed AYAD  
Sarah BOURI

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**Does the Digital Competence Gap Hurt Workers? Multilevel and Causal Machine Learning Evidence from Europe**  
Asad Ul Islam KHAN-Ibn Haldun University

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**Assist. Prof. Asad Ul Islam Khan, Ph.D.**  
Oturum Başkanı | Session Chair

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Salı, 12 Mayıs 2026  
Tuesday, May 12, 2026

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Oturum 6 | Session 6  
14.15-15.30

Menekşe Salonu  
Menekşe Room

## AI in Economics and Macroeconomic Analysis

### E-Ticaret Yükselen Trendinin Belirleyicisi Pandemi mi yoksa Makroekonomik Değişkenler mi?

Bilgehan ÖZBAY-Ankara Yıldırım Beyazıt University

Sıdıka BAŞÇI-Ankara Yıldırım Beyazıt University

Koray GÖKSAL-Ankara Yıldırım Beyazıt University

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### 9-sonlu Fiyatların Tüketim Kararlarına Etkileri

Ömer Faruk ACAR-Ankara Yıldırım Beyazıt University

Sıdıka BAŞÇI-Ankara Yıldırım Beyazıt University

Mert AKYÜZ-Ankara Yıldırım Beyazıt University

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### 2008 Küresel Ekonomik Krizi ve Covid-19 Krizinin Makroekonomik Etkilerinin Karşılaştırmalı Analizi: Panel Veri Yaklaşımı

Aleyna YAŞAR-Ankara Yıldırım Beyazıt University

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### Vergiye Gönüllü Uyumu Sağlamada Hibrit Bir Model Önerisi: Veri Temelli Toplu Taşınmaz Değerleme

Yiğit YILDIZ-Presidency of the Tax Inspection Board

Mustafa Göktuğ KAYA-Presidency of the Tax Inspection Board

Perihan HAZEL KAYA-Selçuk University

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### Türkiye’de Tamamlayıcı Sağlık Sigortası Talebini Etkileyen Faktörlerin Makine Öğrenmesi Teknikleri ile Analizi

Deniz GÖKTAŞ-Bilecik Seyh Edebali University

Merve ÇELİK-Kilis 7 Aralık University

Rehvan BOZKURT-Necmettin Erbakan University

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**Deniz Göktaş, Ph.D.**

Oturum Başkanı | Session Chair

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15.30-15.45 Kahve Arası | Coffee Break

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Salı, 12 Mayıs 2026  
Tuesday, May 12, 2026

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Oturum 7 | Session 7  
15.45-17:00

Büyük Konferans Salonu  
Grand Conference Hall

## Artificial Intelligence and Various Topics

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### Socioeconomic determinants of diabetes in Türkiye: A Machine Learning Approach

Gülnur ACAR-Anadolu University  
Deniz GÖKTAŞ-Bilecik Seyh Edebali University

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### Ethical, Legal, and Regulatory Dimensions of AI

Selman DAL-Central Bank of The Republic of Türkiye

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### Informality as a Structural Trap in The Gambia: Explainable Machine Learning Evidence on Gender, Livelihood Strategies, and Spatial Inequality

Salim SAIDY-Ibn Haldun University  
Mahat Maalim İBRAHİM-Ibn Haldun University

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### Measuring Economic Efficiency and Value Creation in the Age of AI: Metrics, AI Proxies, and Multi-Level Perspectives

Büşra AĞAN ÇELİK-OSTİM Technical University  
Murat YÜLEK-OSTİM Technical University,  
Serdar ÇELİK-OSTİM Technical University

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### AI-Based Early Warning Systems for Macroeconomic and Financial Crises: Evidence from Emerging Economies

Onur AKKAYA-Kilis 7 Aralık University

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**Assoc. Prof. Onur Akkaya, Ph.D.**

Oturum Başkanı | Session Chair

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13 Mayıs Çarşamba  
Wednesday, May 13

Toplantı Kimliği | Meeting ID  
856 8295 0549



Parola | Password  
956534

<https://us06web.zoom.us/j/85682950549?pwd=H8TafaOU4ECLOTClrWff162sI5b2ey.1>

Çevrimiçi Davetli Konuşmacı  
Online Keynote Speaker

10.00–11.30-ZOOM

Modelling the Impact of the European Union's Tobacco Tax  
Directive

Prof. Ángel López NICOLÁS, Ph.D.  
Universidad Politécnica de Cartagena, Spain

Assoc. Prof. Dr. Sıdika BAŞÇI, Ph.D  
Oturum Başkanı | Session Chair



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13 Mayıs Çarşamba  
Wednesday, May 13  
11.45-13.00

Çevrimiçi Oturum 1  
Online Session 1

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Toplantı Kimliği | Meeting ID  
870 7748 2201



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Parola | Password  
388984

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<https://us06web.zoom.us/j/87077482201?pwd=BCVBAXZit0li6dGwWvT9LKRZbi7Ale.1>

## Applied AI and Industrial Systems

**A Dual-Model System for Vehicle Service Retention: Predictinchurn Prediction, Customer Retention, Demand Forecasting, Predictive Modeling, Lightgbm, Vehicle Service Centers Service Timing and Churn Probability**

Selçuk BAYRACI-Borusan Otomotiv R&D Center  
Garen BOZOĞLANOĞLU-Borusan Otomotiv Data Analytics & AI Unit

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**Development of a Data-Driven Digital Twin for State of Health Estimation of Li-Ion Batteries**

Hava TEMEL-Ankara Yıldırım Beyazıt University  
Furkan SOYSAL-Ankara Yıldırım Beyazıt University

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**Econometric Approaches to Assessing AI-Driven Efficiency**  
Saliha Ergün TANRIVERDİ-Bahçeşehir University

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**Predictive Triage of Warranty Claim Settlement Outcomes: A Machine Learning Pipeline for Automotive Goodwill Claim Management**

Selçuk BAYRACI-Borusan Otomotiv R&D Center  
Oğulcan ÇİÇEK-Borusan Otomotiv Data Analytics & AI Unit

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**Insights of Agriculture 5.0: State of Play and Future Prospects**  
Elif UÇKAN DAĞDEMİR-Anadolu University

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Elif UÇKAN DAĞDEMİR-Anadolu University  
Oturum Başkanı |Session Chair

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13 Mayıs Çarşamba  
Wednesday, May 13  
13.15-14.30

Çevrimiçi Oturum 2  
Online Session 2

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Toplantı Kimliği | Meeting ID  
862 1481 6221

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Parola | Password  
258657



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<https://us06web.zoom.us/j/86214816221?pwd=kHrJ2c4fiu7aTZX9ZuQKyT0VeizKWJ.1>

## AI and Economic Transformation

### From Productivity Dip to Well-Being Dividend: Empirical Evidence of AI Integration in Higher Education (2020-2025)

Hasibe AYSAN-Ostim Technical University  
Mehmet Necati AYSAN-Radio and Television Supreme Council of Türkiye

### Uncovering Turkish Audit Firms' Transparency Report Textual Attributes Through Computer Based Approaches and Linking Them to Audit Quality

Sibel Dinç AYDEMİR-Fatih Sultan Mehmet Vakıf University  
Yusuf Sinan AKGÜL-Gebze Technical University  
Barış ÖZCAN- ForInvest Software and Technology Services Inc.  
Mine AKSU-Sabancı University

### The Future of AI-Driven Economies

Turalay KENÇ-The Inceif University

### Mapping Circular Economy Performance in the European Union: A Multidimensional Scaling Approach

Elif Korkmaz TÜMER-Ege University  
Erol Türker TÜMER-Dokuz Eylül University

### Yapay Zeka ve Ekolojik Üretkenlik Paradoksu: OECD Ekonomilerinde Jevons Geri Tepme Etkisi ve Verimlilik Eşijı (2010-2022)

Mustafa Göktuğ KAYA-Karatay University  
Mehmet Gökhan ÖZDEMİR-Kırıkkale University

### Mehmet Gökhan Özdemir, Ph.D.

Oturum Başkanı |Session Chair

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13 Mayıs Çarşamba  
Wednesday, May 13  
14.45-16.00

Çevrimiçi Oturum 3  
Online Session 3

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Toplantı Kimliği | Meeting ID  
816 8452 1699

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Parola | Password  
220340



<https://us06web.zoom.us/j/81684521699?pwd=T0maw5fC8LM42mg0fadDVHw6cddrQ.1>

## Finance, Fintech and Econometrics

### Portfolio Choice among Alternative Portfolio Selection Criteria using Multi-Criteria TOPSIS

Mihir DASH-Alliance University  
Rita SAMIKANNU, Periyar University

### AI in Finance and FinTech

İbrahim Musa ÜNAL-Qatar Financial Markets Authority  
Ahmet Faruk AYSAN-Hamad bin Khalifah University  
Fatma Nur AYSAN-Istanbul University

### ESG Disclosure Tone and Stock Market Reactions: Evidence from STOXX Europe 600

Zeynep YUMUŞAK-TED University

### A Memory-Augmented Deep Learning Framework: Integrating Fractional Differentiation with LSTM Networks for DJIMTR Index Analysis

Merve Mert SARITAŞ-Çanakkale Onsekiz Mart University

### The Effect of CBRT Monetary Policy Communication Tone on Foreign Government Bond Investor Flows

Damla SAĞIROĞLU-TED University  
Halay KOCATÜRK-TED University  
Alp ORHON-TED University

### Modeling Stable Errors in Economics and Finance: Recent Developments and AI Techniques

Fatma Özgü SERTTAŞ-Ankara Yıldırım Beyazıt University

**Assist. Prof. Fatma Özgü Serttaş, Ph.D.**

Oturum Başkanı | Session Chair



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13 Mayıs Çarşamba  
Wednesday, May 13  
16.15-17.30

Çevrimiçi Oturum 4  
Online Session 4

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Toplantı Kimliği | Meeting ID  
867 8382 3477



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Parola | Password  
116599

<https://us06web.zoom.us/j/86783823477?pwd=xVbIbii1O6rxFXWQwzjxWnjDalRrl.1>

## Sustainability, Energy and Development

**AI in Healthcare: Efficiency, Quality, and Value Creation**  
Büşra Ergün ŞAHİN-University of Bedfordshire

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**Digital Transformation and Nonlinear Current Account Adjustment:  
Evidence from Post-Soviet Economies**  
Nermin YAŞAR BAŞKARAAĞAÇ-Çankaya University

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**The Impact of Regulatory Quality and Globalization on Economic  
Growth: A Comparative Analysis Across Dynamic Panel Estimation  
Approaches in European Countries**  
Mehdi GASİMLİ-Azerbaijan State University of Economics

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**Artificial Intelligence and The Transformation of Economic Systems**  
Jorge Tavares BORGES-Ostim Technical University  
Murat YÜLEK-Ostim Technical University  
K. Ali AKKEMİK-Fukuoka University

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**Jorge Tavares Borges, Ph.D.**  
Oturum Başkanı |Session Chair

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## Sosyal Program Social Program

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13 Mayıs Çarşamba  
Wednesday, May 13

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Birinci ve İkinci Meclis'in ziyaretinin ardından ODTÜ MEBİVA'da (Hamamönü) öğle yemeği molası verilecek.

Following the visit to the First and Second Assemblies, there will be a lunch break at ODTÜ MEBİVA (Hamamönü).



13 Mayıs 2026 tarihinde saat 10.30'da AYBU Etlik Milli İrade Kampüsü'nden hareket edilecek.

Departure will take place from AYBU Etlik Milli İrade Campus at 10.30 on May 13, 2026.



Günün son durağı ise Anadolu Medeniyetleri Müzesi olacak ve ardından Etlik Milli İrade Kampüsü'ne dönülecek.

The final stop of the day will be the Museum of Anatolian Civilizations, after which the group will return to the Etlik Milli İrade Campus.

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