



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

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

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. Murat ASLAN, Ph.D.  
Oturum Başkanı | Session Chair

12.15-13.00 Öğle Arası | Lunch Break

Pazartesi, 11 Mayıs 2026  
Monday, May 11, 2026

Davetli Konuşmacı | Keynote Speaker



---

13.00–14.30 Büyük Konferans Salonu | Grand Conference Hall

---

AI Adoption Efficiency and its Role as the Modern Determinant of  
Hegemonic Stability  
Ekaterina LOMIA, Ph.D.  
Mongolian International University (MIU), Mongolia

---

Assoc. Prof. Mustafa Göktuğ KAYA, Ph.D.  
Oturum Başkanı |Session Chair

---

14.30-14.45 Kahve Arası | Coffee Break

---

Davetli Konuşmacı | Keynote Speaker

14.45–16.00 Büyük Konferans Salonu | Grand Conference Hall

---

Building the Company That Never Sleeps  
Fatih Çağatay AKYÖN  
Viddeca AI, Ultralytics Inc, METU

---

Prof. Fatih Cemil ÖZBUĞDAY, Ph.D.  
Oturum Başkanı |Session Chair

---

16.00-16.15 Kahve Arası | Coffee Break

---



---

Pazartesi, 11 Mayıs 2026  
Monday, May 11, 2026

---

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

---

Moment Inequality Estimators in Competition Analysis: A Practitioner's  
Guide with Synthetic Data Applications  
Fatih Cemil ÖZBUĞDAY-Ankara Yıldırım Beyazıt University

---

Reinforcement Learning in Dynamic Economic Analysis  
Erdem BAŞÇI-TED University

---

Intragroup Social Network Analysis Using Sociogram Techniques  
Emre AYIKLAR-Econometric Research Association  
Sıdıka BAŞÇI-Ankara Yıldırım Beyazıt University

---

Deep Unsupervised Anomaly Detection in ODS Trade Data: A Variational  
Autoencoder Approach  
Bige KÜÇÜKEFE-Tekirdağ Namık Kemal University

---

Assoc. Prof. Bige KÜÇÜKEFE, Ph.D.  
Oturum Başkanı | Session Chair

---



---

Pazartesi, 11 Mayıs 2026  
Monday, May 11, 2026

---

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  
Ayb ke MİNTEM R-Ankara Yıldırım Beyazıt University  
Sıdıka BAŐCI-Ankara Yıldırım Beyazıt University

---

Lighting Up Development: Do Human Development Indicators Drive  
Nighttime Light Intensity Across Indian States  
Veli Emre SAVAŐ-TED University  
Feyza  NAL-TED University  
Hakan EMEKŐI-TED University

---

Do the Central Bank Independence and Democracy Have Impact on the  
Level of Inflation for G20 Countries?  
Mehmet Orkun APAYDIN-TED University  
Hakan EMEKŐI-TED University

---

Artificial Intelligence Shocks in a New Keynesian Framework: The  
Displacement, Productivity, And Reinstatement Channels  
Cumhur  IŐEKŐI-T rkiye Ministry of Treasury and Finance  
Yusuf  m r YILMAZ-Mardin Artuklu University

---

Cumhur  IŐEKŐI  
Oturum BaŐkanı | Session Chair

---

19.00- 21.30  
Konferans Gala YemeĐi | 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=IZ5AX54Z3XrU6fxcBRCpUk2R1el80v.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

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

11.30-12.45 Öğle Arası | Lunch Break



---

Salı, 12 Mayıs 2026  
Tuesday, May 12, 2026

---

Oturum 3 | Session 3  
12.45-14.00

Büyük Konferans Salonu  
Grand Conference Hall

## Finance, Banking and Financial Markets

How Blockchain Is Transforming Digital Finance: A Comparative  
Analysis Between Türkiye and Germany  
Muhammed RAHMETULLAH-Ankara Yıldırım Beyazıt University

---

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

---

AI-Powered Smart Public Assistants in E-Government: A Behavioral  
Economics Approach to Enhancing Public Service Accessibility  
Ömür AKDEMİR- Ankara Yıldırım Beyazıt University

Serkan ARSLAN- Ankara Yıldırım Beyazıt University

Elif Necla BEKTAŞ- Ankara Yıldırım Beyazıt University

Kevser ÇALIŞKAN- Ankara Yıldırım Beyazıt University

Furkan ELMAS- Ankara Yıldırım Beyazıt University

Furkan ŞEN- Ankara Yıldırım Beyazıt University

Buse Nur YILDIRIM- Ankara Yıldırım Beyazıt University

---

Usability of Digital Public Services: Empirical Evidence from MHRS

Ömür AKDEMİR- Ankara Yıldırım Beyazıt University

Aşlı Nur AKBAY - Ankara Yıldırım Beyazıt University

Tuğçe DEMİRCİ - Ankara Yıldırım Beyazıt University

Yücel Arda DEMİRCİ- Ankara Yıldırım Beyazıt University

Furkan GÜLTEKİN- Ankara Yıldırım Beyazıt University

Emir KARABULUTOĞLU - Ankara Yıldırım Beyazıt University

Fatma İrem TOPRAK - Ankara Yıldırım Beyazıt University

Furkan Eren YILMAZEL - Ankara Yıldırım Beyazıt University

---



---

Selman DAL  
Oturum Başkanı | Session Chair

---

Salı, 12 Mayıs 2026  
Tuesday, May 12, 2026

---

Oturum 4 | Session 4  
12.45-14.00

Menekşe Salonu  
Menekşe Room

### Sustainability, Energy and Green Economy

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

---

AI, Sustainable Growth, and Long-Term Value Creation  
Erkan ERDİL-Middle East Technical University

Gizem ÖĞÜTÇÜ ULAŞ-Başkent University

---

Erol Can İLDES  
Oturum Başkanı | Session Chair

---

14.00-14.15 Kahve Arası | Coffee Break

---



---

Sali, 12 Mayıs 2026  
Tuesday, May 12, 2026

---

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

---

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

---

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

---

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

---

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

---



---

Salı, 12 Mayıs 2026  
Tuesday, May 12, 2026

---

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

---

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

---

2008 Küresel Ekonomik Krizi ve Covid-19 Krizinin Makroekonomik  
Etkilerinin Karşılaştırmalı Analizi: Panel Veri Yaklaşımı  
Aleyna YAŞAR-Ankara Yıldırım Beyazıt University

---

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  
Reyhan BOZKURT-Necmettin Erbakan University

---

Deniz Göktaş, Ph.D.  
Oturum Başkanı | Session Chair

15.30-15.45 Kahve Arası | Coffee Break

---

Salı, 12 Mayıs 2026  
Tuesday, May 12, 2026

---

Oturum 7 | Session 7  
15.45-17:00

Büyük Konferans Salonu  
Grand Conference Hall



## Artificial Intelligence and Various Topics

Socioeconomic determinants of diabetes in Türkiye: A Machine Learning Approach

Glnur ACAR-Anadolu University  
Deniz GKTAŐ-Bilecik Seyh Edebali University

---

Ethical, Legal, and Regulatory Dimensions of AI  
Selman DAL-Cenral Bank of The Republic of Trkiye

---

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

BŐra AĖAN ÇELİK-OSTİM Technical University  
Murat YLEK-OSTİM Technical University,  
Serdar ÇELİK-OSTİM Technical University

---

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

Onur AKKAYA-Kilis 7 Aralık University

---

Assoc. Prof. Onur Akkaya, Ph.D.

Oturum BaŐkanı | Session Chair

---



13 Mayıs Çarşamba  
Wednesday, May 13

Toplantı Kimliği | Meeting ID  
856 8295 0549



Parola | Password  
956534

[https://us06web.zoom.us/j/85682950549?  
pwd=H8TafaOU4ECL0TClrWFF162sI5b2ey.1](https://us06web.zoom.us/j/85682950549?pwd=H8TafaOU4ECL0TClrWFF162sI5b2ey.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 NİCOLÁS, Ph.D.  
Universidad Politécnica de Cartagena, Spain

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



---

13 Mayıs Çarşamba  
Wednesday, May 13  
11.45-13.00

Çevrimiçi Oturum 1  
Online Session 1

---

Toplantı Kimliği | Meeting ID  
870 7748 2201



---

Parola | Password  
388984

<https://us06web.zoom.us/j/87077482201?pwd=BCVBAXZj0iI6dGwWvT9LKRZbi7Ale.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

---

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

---

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

---

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

---

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

---

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

---

Elif UÇKAN DAĞDEMİR-Anadolu University  
Oturum Başkanı |Session Chair

---





---

13 Mayıs Çarşamba  
Wednesday, May 13  
13.15-14.30

Çevrimiçi Oturum 2  
Online Session 2

---

Toplantı Kimliği | Meeting ID  
862 1481 6221



---

Parola | Password  
258657

<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

Baş 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 Eşiği (2010-2022)

Mustafa Göktuğ KAYA-Karatay University

Mehmet Gökhan ÖZDEMİR-Kırıkkale University

---

Mehmet Gökhan Özdemir, Ph.D.

Oturum Başkanı |Session Chair

---



---

13 Mayıs Çarşamba  
Wednesday, May 13  
14.45-16.00

Çevrimiçi Oturum 3  
Online Session 3

---

Toplantı Kimliği | Meeting ID  
816 8452 1699

---

Parola | Password  
220340



---

<https://us06web.zoom.us/j/81684521699?pwd=T0maw5fC8LM42mg0fadDVHWc6cddrQ.1>

## Finance, Fintech and Econometrics

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

Mehir DASH-Alliance University  
Rita SAMIKANNU, Periyar University

---

AI in 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

---



---

13 Mayıs Çarşamba  
Wednesday, May 13  
16.15-17.30

Çevrimiçi Oturum 4  
Online Session 4

---

Toplantı Kimliği | Meeting ID  
867 8382 3477



---

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

---

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

---

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

---

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-Istanbul Technical University

---

Forecasting Equity Market Returns with Text-Based Cryptocurrency News  
Sentiment Using Large Language Models and Deep Learning Time Series  
Models  
Mahat Maalim IBRAHIM-Ibn Haldun University  
Salim SAIDY-Ibn Haldun University  
Arab Dahir HASSAN-Ibn Haldun University  
Asad Ul Islam KHAN-Ibn Haldun University

---



---

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

---

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

---



---

Sosyal Program  
Social Program

13 Mayıs Çarşamba  
Wednesday, May 13

---

ri  
i



Bi  
nc  
ve

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.

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).



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.

---

## SPONSORLAR | SPONSORS



## DESTEKLEYEN ÜNİVERSİTELER | PARTNER UNIVERSITIES



İşletme ve Ekonomi Kulübü

