

The logo for DATAMACLEA'26 features a circular graphic composed of many thin, light blue lines radiating from the center. Inside this circle, there are four solid blue squares of varying sizes arranged in a pattern that suggests data points 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
3rd 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. Sıdıka 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
Viddexa 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
Sıdika 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 BAŐ I-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 EMEK -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 EMEK -TED University

AI and Emergency Data Governance in the Age of Polycrisis: A Framework
from a Development Economics Perspective
Murad TIRYAKIOĐLU-Afyon Kocatepe University

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

Cumhur  I EK 
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=Iz5AX54Z3XrUj6fxcBRcpUk2R1el80v.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



Sali, 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

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

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-Istanbul Technical University

Abdelhadi BENGHALEM
Oturum Başkanı | Session Chair



Sali, 12 Mayıs 2026
Tuesday, May 12, 2026

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

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

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

Mohamed BENBOUZIANE
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

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

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

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

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



Sali, 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

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

Ethical, Legal, and Regulatory Dimensions of AI
Selman DAL-Central Bank of The Republic of Türkiye

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

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

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 Başkanı | 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=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. 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=BCVBAxZit0li6dGwWvT9LKRZbi7Ae.1>

Applied AI and Industrial Systems

A Dual-Model System for Vehicle Service Retention: Predictin churn
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

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=kHrJ2c4fiu7aTZX9ZuOKyT0VeizKWJ.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 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=T0maw5fC8LM42mq0fadDVHWc6cdcrO.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=xVbIbii1O6rxFXWQwzjxWniDaLRrl.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 BAŞKARAĞAÇ-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

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



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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