

PROGRAMME

Econometric Research Association 3rd International Data Analytics and Machine Learning Conference

" Artificial Intelligence and Economic Efficiency: Sectoral Applications and Value Generation "
DATAMACLEA'26

May 11 - 13, 2026

11 MAYIS PAZARTESİ | MONDAY, MAY 11

08.30 Kayıt | Registration

09.30-10.30 Açılış ve Protokol Konuşmaları | Welcome and Opening Remarks

Milli İrade Yerleşkesi Büyük Konferans Salonu | Grand Conference Hall

Assoc. Prof. Sıdıka BAŞÇI, PhD
Ankara Yıldırım Beyazıt University
Econometric Research Association

Prof. İbrahim DEMİR, PhD
Ankara Yıldırım Beyazıt University
Institute for International Relations and Strategic Research

Prof. Ali Cengiz KÖSEOĞLU, PhD
Rector, Ankara Yıldırım Beyazıt University

Mustafa Latif EMEK, PhD
Institute of Economic Development and Social Research President

Dr. Mourad AMER
Chief Executive Officer & Founder at IEREK (TBC)

10.30 – 10.45 Aile Fotoğrafı | Family Photo

10.45 – 12.15 Davetli Konuşmacı | Keynote Speaker

Oturum Başkanı | Session Chair: Prof. İbrahim DEMİR, PhD

Büyük Konferans Salonu | Grand Conference Hall

Dr. Şeyma Handan AKYÖN
Sincan Education and Research Hospital

Rethinking Healthcare Workflows with AI

12.15-13.00 Öğle Arası | Lunch Break

13.00 – 14.50 Davetli Konuşmacı | Keynote Speaker

Oturum Başkanı | Session Chair: Assoc. Prof. Mustafa Göktuğ KAYA, PhD

Büyük Konferans Salonu | Grand Conference Hall

Prof. Enrique MALLÉN, PhD
Sam Houston State University, USA

Enhancing Knowledge of History Through Visual Arts

14.30-14.45 Kahve Arası | Coffee Break

14.45- 16.00 Davetli Konuşmacı Keynote Speaker	
Oturum Başkanı Session Chair: Prof. Fatih Cemil ÖZBUĞDAY, PhD	
Büyük Konferans Salonu Grand Conference Hall	
Fatih Çağatay AKYÖN (Post Graduate, METU), <i>Viddexa AI, Ultralytics Inc, METU</i>	Building the Company That Never Sleeps
16.00-16.15 Kahve Arası Coffee Break	

16.15-17.45	
Oturum 1 Session 1: AI, Data and Machine Learning Applications	
Oturum Başkanı Session Chair: Assoc. Prof. Bilge KÜÇÜKEFE, PhD	
Büyük Konferans Salonu Grand Conference Hall	
Yazar(lar)	Bildiri başlığı
Yeliz YALÇIN <i>Hacı Bayram Veli University</i>	Simulation, Optimization, and AI-Based Decision Systems
M. Kenan TERZİOĞLU <i>Trakya University</i>	
Ayşegül İŞCANOĞLU ÇEKİÇ <i>Trakya University</i>	
Fatih Cemil ÖZBUĞDAY <i>Ankara Yıldırım Beyazıt University</i>	Moment Inequality Estimators in Competition Analysis: A Practitioner's Guide with Synthetic Data Applications
Erdem BAŞÇI <i>TED University</i>	Reinforcement Learning in Dynamic Economic Analysis
Emre AYIKLAR <i>Econometric Research Association</i>	Intragroup Social Network Analysis Using Sociogram Techniques
Sıdıka BAŞÇI <i>Ankara Yıldırım Beyazıt University</i>	
Bilge KÜÇÜKEFE <i>Tekirdağ Namık Kemal University</i>	Deep Unsupervised Anomaly Detection in ODS Trade Data: A Variational Autoencoder Approach

16.15- 17.45	
Oturum 2 Session 2: AI in Economics and Macroeconomic Analysis	
Oturum Başkanı Session Chair: Cumhuriyet ÇİÇEKÇİ	
Menekşe Salonu Menekşe Room	
Yazar(lar)	Bildiri başlığı
Aybüke MİNTEMÜR <i>Ankara Yıldırım Beyazıt University</i>	Demand Deficiency and Inflation In G20 Countries
Sıdıka BAŞÇI <i>Ankara Yıldırım Beyazıt University</i>	

<p>Veli Emre SAVAŞ <i>TED University</i></p> <p>Feyza ÜNAL <i>TED University</i></p> <p>Hakan EMEKÇİ <i>TED University</i></p>	<p>Lighting Up Development: Do Human Development Indicators Drive Nighttime Light Intensity Across Indian States</p>
<p>Mehmet Orkun APAYDIN <i>TED University</i></p> <p>Hakan EMEKÇİ <i>TED University</i></p>	<p>Do the Central Bank Independence and Democracy Have Impact on the Level of Inflation for G20 Countries?</p>
<p>Murad TİRYAKİOĞLU <i>Afyon Kocatepe University</i></p>	<p>AI and Emergency Data Governance in the Age of Polycrisis: A Framework from a Development Economics Perspective</p>
<p>Cumhur ÇİÇEKÇİ <i>Türkiye Ministry of Treasury and Finance</i></p> <p>Yusuf Ömür YILMAZ <i>Mardin Artuklu University</i></p>	<p>Artificial Intelligence Shocks In A New Keynesian Framework: The Displacement, Productivity, And Reinstatement Channels</p>

19.00- 21.30 Konferans Gala Yemeği | [Conference Gala Dinner](#)

12 MAYIS SALI | TUESDAY, MAY 12

10.00 – 11.30 Çevrimiçi Panel I **Online Panel: Problems of Editors After AI and Suggestions to Academicians While Publishing**

Zoom Link: <https://us06web.zoom.us/j/83259611523?pwd=IZ5AX54Z3XrU6fxcBRCpUk2R1eI8Ov.1>

Toplantı Kimliği | Meeting ID: 832 5961 1523
Parola | Password: 527587

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

Büyük Konferans Salonu | Grand Conference Hall

Prof. Gökhan TUNCEL, Ph.D
Editor of Journal of Academic Approaches

Assist. Prof. Elif KAYA, PhD
Editor of Journal of Political and Social Studies

Prof. Mert TOPÇU, PhD
Associate Editor of Journal of Research in Economics, Politics & Finance

Assoc. Prof. Burcu ŞENTÜRK, PhD
Editor of Ege Academic Review

Dr. Mourad AMER, Ph.D
Series Editor of ASTI, SUCI, and SLNR book series by Springer (TBC)

11.30-12.45 **Öğle Arası | Lunch Break**

12.45-14.00
Oturum 3 | Session 3: Finance, Banking and Financial Markets

Oturum Başkanı | Session Chair: Abdelhadi BENGHALEM

Büyük Konferans Salonu | Grand Conference Hall

Yazar(lar)	Bildiri başlığı
Muhammed RAHMETULLAH <i>Ankara Yıldırım Beyazıt University</i>	How Blockchain Is Transforming Digital Finance: A Comparative Analysis Between Türkiye And Germany
Selman DAL <i>Central Bank of The Republic of Türkiye</i> Seyid Fahri MAHMUD <i>Social Sciences University of Ankara</i>	The Role of Banks' Lending Standards in Determining Creditworthiness of Firms: Evidence from Turkish Banks
Abderrahim CHIBI <i>University Center of Maghnia</i> Sidi Mohammed CHEKOURI <i>University Center of Maghnia</i>	Oil Rents, Institutional Quality, and Economic Performance in Algeria: A Machine Learning Investigation of the Resource Curse Hypothesis

<p>Damla SAĞIROĞLU <i>TED University</i></p> <p>Halay KOCATÜRK <i>TED University</i></p> <p>Alp ORHON <i>TED University</i></p>	<p>The Effect of CBRT Monetary Policy Communication Tone on Foreign Government Bond Investor Flows</p>
<p>Abdelhadi BENGHALEM <i>ORAN Graduate School of Economics</i></p> <p>Mohamed BENBOUZIANE <i>University of Tlemcen</i></p> <p>Rabia Meriem BENBOUZIANE <i>Istanbul Technical University</i></p>	<p>When Deep Learning Meets Small Data: Revisiting Predictive Superiority in Oil Price Volatility Forecasting</p>
<p>14.00-14.15 Kahve Arası Coffee Break</p>	

<p>12.45-14.00 Oturum 4 Session 4: Sustainability, Energy and Green Economy</p>	
<p>Oturum Başkanı Session Chair: Mohamed BENBOUZIANE</p>	
<p>Menekşe Salonu Menekşe Room</p>	
<p>Yazar(lar) Author(s) Bildiri başlığı Title of the Presentation</p>	
<p>Hadjer BOULILA <i>University of Tlemcen</i></p> <p>Rabia Meriem BENBOUZIANE <i>Istanbul Technical University</i></p> <p>Seyfeddine BENBEKHTI <i>University of Tlemcen</i></p> <p>Mohamed BENBOUZIANE <i>University of Tlemcen</i></p>	<p>Can Artificial Intelligence Improve Energy Market Forecasting in Times of Conflict? Evidence from Machine Learning Models</p>
<p>Erol Can İLDES <i>Ankara Social Sciences University</i></p> <p>Seyid Fahri MAHMUD <i>Ankara Social Sciences University</i></p>	<p>A Hybrid Machine Learning-Econometric Approach to Modelling Food and Energy Inflation Dynamics in Emerging Markets</p>
<p>Erkan ERDİL <i>Middle East Technical University</i></p> <p>Gizem ÖĞÜTÇÜ ULAŞ <i>Başkent University</i></p>	<p>AI, Sustainable Growth, and Long-Term Value Creation</p>

<p>Mohamed BENBOUZIANE <i>University of Tlemcen</i></p> <p>Abderrezzak BENHABIB <i>University of Tlemcen</i></p> <p>Benabbou SENOUCI <i>Graduate School of Economics</i></p>	<p>Forecasting Green Hydrogen Production Potential in Algeria: A Machine Learning Approach</p>
<p>14.00-14.15 Kahve Arası Coffee Break</p>	

<p>14.15-15.30 Oturum 5 Session 5: Digital Transformation, Industry and Innovation</p>	
<p>Oturum Başkanı Session Chair: Assist. Prof. Asad Ul Islam Khan, PhD</p>	
<p>Büyük Konferans Salonu Grand Conference Hall</p>	
Yazar(lar) Author(s)	Bildiri başlığı Title of the Presentation
<p>AMNA Abdullah <i>Ibn Haldun University</i></p>	<p>AI-Driven Carbon Pricing and Digital Transformation: Evolutionary Game Theory Evidence on Economic Efficiency in Turkey's Manufacturing Sector</p>
<p>Fatih Çağatay AKYÖN <i>Middle East Technical University</i></p>	<p>AI in Software Development and Digital Industries: Economic Efficiency, Vibe Coding Pitfalls, and the Industrial Revolution Analog</p>
<p>Ayuba NAPARI <i>University of Environment and Sustainable Development</i></p>	<p>A Fuzzy Panel Analysis of Over-innovation in Sub-Saharan Africa</p>
<p>Mustapha DJENNAS <i>University of Tlemcen</i></p> <p>Sidi Mohammed AYAD</p> <p>Sarah BOURI</p>	<p>AI-Driven E-HRM Systems and Organizational Efficiency in Algeria: Adoption Barriers, Institutional Challenges, and Value Generation Prospects</p>
<p>Asad Ul Islam KHAN <i>Ibn Haldun University</i></p>	<p>Does the Digital Competence Gap Hurt Workers? Multilevel and Causal Machine Learning Evidence from Europe</p>
<p>15.30-15.45 Kahve Arası Coffee Break</p>	

<p>14.15-15.30 Oturum 6 Session 6: AI in Economics and Macroeconomic Analysis</p>	
<p>Oturum Başkanı Session Chair: Deniz Gökteş, PhD</p>	
<p>Menekşe Salonu Menekşe Room</p>	
Yazar(lar) Author(s)	Bildiri başlığı Title of the Presentation
<p>Bilgehan ÖZBAY <i>Ankara Yıldırım Beyazıt University</i></p> <p>Sıdıka BAŞÇI <i>Ankara Yıldırım Beyazıt University</i></p> <p>Koray GÖKSAL</p>	<p>E-Ticaret Yükselen Trendinin Belirleyicisi Pandemi mi yoksa Makroekonomik Değişkenler mi?</p>

<i>Ankara Yıldırım Beyazıt University</i>	
Ömer Faruk ACAR <i>Ankara Yıldırım Beyazıt University</i> Sıdıka BAŞÇI <i>Ankara Yıldırım Beyazıt University</i> Mert AKYÜZ <i>Ankara Yıldırım Beyazıt University</i>	9-sonlu Fiyatların Tüketim Kararlarına Etkileri
Aleyna YAŞAR <i>Ankara Yıldırım Beyazıt University</i>	2008 Küresel Ekonomik Krizi ve Covid-19 Krizinin Makroekonomik Etkilerinin Karşılaştırmalı Analizi: Panel Veri Yaklaşımı
Yiğit YILDIZ <i>Presidency of the Tax Inspection Board</i> Mustafa Göktuğ KAYA <i>Presidency of the Tax Inspection Board</i> Perihan HAZEL KAYA <i>Selçuk University</i>	Vergiye Gönüllü Uyumu Sağlamada Hibrit Bir Model Önerisi: Veri Temelli Toplu Taşınmaz Değerleme
Deniz GÖKTAŞ <i>Bilecik Seyh Edebali University</i> Merve ÇELİK <i>Kilis 7 Aralık University</i> Reyhan BOZKURT <i>Necmettin Erbakan University</i>	Türkiye’de Tamamlayıcı Sağlık Sigortası Talebini Etkileyen Faktörlerin Makine Öğrenmesi Teknikleri ile Analizi
15.30-15.45 Kahve Arası Coffee Break	

15.45-17.00

Oturum 7 | Session 7: Artificial Intelligence and Various Topics

Oturum Başkanı | Session Chair: Assoc. Prof. Onur Akkaya, PhD

Büyük Konferans Salonu | Grand Conference Hall

Yazar(lar) | Author(s)

Bildiri başlığı | Title of the Presentation

Gülnur ACAR

Anadolu University

Deniz GÖKTAŞ

Bilecik Seyh Edebali University

Socioeconomic determinants of diabetes in Türkiye: A Machine Learning Approach

Selman DAL

Central Bank of The Republic of Türkiye

Ethical, Legal, and Regulatory Dimensions of AI

<p>Salim SAIDY <i>Ibn Haldun University</i></p> <p>Mahat Maalim İBRAHİM <i>Ibn Haldun University</i></p>	<p>Informality as a Structural Trap in The Gambia: Explainable Machine Learning Evidence on Gender, Livelihood Strategies, and Spatial Inequality</p>
<p>Büşra AĞAN ÇELİK <i>OSTİM Technical University</i></p> <p>Murat YÜLEK <i>OSTİM Technical University,</i></p> <p>Serdar ÇELİK <i>OSTİM Technical University</i></p>	<p>Measuring Economic Efficiency and Value Creation in the Age of AI: Metrics, AI Proxies, and Multi-Level Perspectives</p>
<p>Onur AKKAYA <i>Kilis 7 Aralık University</i></p>	<p>AI-Based Early Warning Systems for Macroeconomic and Financial Crises: Evidence from Emerging Economies</p>

13 MAYIS ÇARŞAMBA | WEDNESDAY, MAY 13**10.00-11.30 Davetli Konuşmacı | Keynote Speaker (Çevrimiçi | Online)****Zoom Link:** <https://us06web.zoom.us/j/85682950549?pwd=H8TafaOU4ECL0TCLrWfF162sl5b2ey.1>**Toplantı Kimliği | Meeting ID:** 856 8295 0549**Parola | Password:** 956534**Oturum Başkanı | Session Chair:** Assoc. Prof. Dr. Sıdıka BAŞÇI, PhD**Prof. Ángel López NICOLÁS, PhD**
*Universidad Politécnica de Cartagena,
Spain*

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

11.45-13.00**Oturum 1 | Session 1: (Çevrimiçi | Online): Applied AI and Industrial Systems****Zoom Link:** <https://us06web.zoom.us/j/87077482201?pwd=BCVBAXZjt0li6dGwWvT9LKRZbi7Ae.1>**Toplantı Kimliği | Meeting ID:** 870 7748 2201**Parola | Password:** 388984**Oturum Başkanı | Session Chair:** Prof. Elif Uçkan Dağdemir, PhD**Yazar(lar) | Author(s)****Bildiri başlığı | Title of the Presentation****Selçuk BAYRACI**
*Borusan Otomotiv R&D Center***Garen BOZOĞLANOĞLU**
*Borusan Otomotiv Data Analytics &
AI Unit*

A Dual-Model System for Vehicle Service Retention: PredictinChurn prediction, Customer retention, Demand forecasting, Predictive modeling, LightGBM, Vehicle service centersg Service Timing and Churn Probability

Hava TEMEL
*Ankara yıldırım Beyazıt
University***Furkan SOYSAL**
*Ankara yıldırım Beyazıt
University*

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

Saliha Ergün TANRIVERDİ
Bahçeşehir University

Econometric Approaches to Assessing AI-Driven Efficiency

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

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

Elif Uçkan DAĞDEMİR
Anadolu University

Insights of Agriculture 5.0: State of Play and Future Prospects

13.15-14.30

Oturum 2 | **Session 2: (Çevrimiçi | Online): AI and Economic Transformation**

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

Toplantı Kimliği | Meeting ID: 862 1481 6221

Parola | Password: 258657

Oturum Başkanı | Session Chair: Mehmet Gökhan Özdemir, PhD

Yazar(lar) | Author(s)

Bildiri başlığı | Title of the Presentation

Hasibe AYSAN

Ostim Technical University

Mehmet Necati AYSAN

*Radio and Television Supreme
Council of Türkiye*

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

Sibel Dinç AYDEMİR

*Fatih Sultan Mehmet Vakıf
Üniversitesi*

Yusuf Sinan AKGÜL

Gebze Technical University

Barış ÖZCAN

*ForInvest Software and Technology
Services Inc.*

Mine AKSU

Sabancı University

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

Turalay KENÇ

The Inceif University

The Future of AI-Driven Economies

Elif Korkmaz TÜMER

Ege University

Erol Türker TÜMER

Dokuz Eylül University

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

Mehmet Gökhan ÖZDEMİR

Kırıkkale University

Mustafa Göktuğ KAYA

Karatay University

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

14.45-16.00

Oturum 3 | **Session 3: (Çevrimiçi | Online): Finance, Fintech and Econometrics**

Zoom Link: <https://us06web.zoom.us/j/81684521699?pwd=T0maw5fC8LM42mq0fadDVHWc6cdcrQ.1>

Toplantı Kimliği | Meeting ID: 816 8452 1699

Parola | Password: 220340

Oturum Başkanı | Session Chair: Assist. Prof. Fatma Özgü Serttaş, PhD

Yazar(lar) Author(s)	Bildiri başlığı Title of the Presentation
Mehir DASH <i>Alliance University</i> Rita S.	Portfolio Choice among Alternative Portfolio Selection Criteria using Multi-Criteria TOPSIS
İbrahim Musa ÜNAL <i>Qatar Financial Markets Authority</i> Ahmet Faruk AYSAN <i>Hamad bin Khalifah University</i> Fatma Nur AYSAN <i>Istanbul University</i>	AI in in Finance and FinTech
Zeynep YUMUŞAK <i>TED University</i>	ESG Disclosure Tone and Stock Market Reactions: Evidence from STOXX Europe 600
Merve Mert SARITAŞ <i>Canakkale Onsekiz Mart Universtiy</i>	A Memory-Augmented Deep Learning Framework: Integrating Fractional Differentiation with LSTM Networks for DJIMTR Index Analysis
Fatma Özgü SERTTAŞ <i>Ankara Yıldırım Beyazıt University</i>	Modeling stable errors in economics and finance: Recent developments and AI techniques

16.15-17.30

Oturum 4 | **Session 4: (Çevrimiçi | Online): Sustainability, Energy and Development**

Zoom Link: <https://us06web.zoom.us/j/86783823477?pwd=xVblbii1O6rFXWQwzixWnjDaLRll.1>

Toplantı Kimliği | Meeting ID: 867 8382 3477

Parola | Password: 116599

Oturum Başkanı | Session Chair: Jorge Tavares Borges, PhD

Yazar(lar)	Bildiri başlığı
Büşra Ergün ŞAHİN <i>University of Bedfordshire</i>	AI in Healthcare: Efficiency, Quality, and Value Creation
Nermin YAŞAR BAŞKARAAĞAÇ <i>Çankaya University</i>	Digital Transformation and Nonlinear Current Account Adjustment: Evidence from Post-Soviet Economies

Mehdi GASİMLİ <i>Azerbaijan State University of Economics</i>	The Impact of Regulatory Quality and Globalization on Economic Growth: A Comparative Analysis Across Dynamic Panel Estimation Approaches in European Countries
Yiğit AFŞAR <i>Botaş</i>	Güneş enerji santralinden üretilen hidrojenin tuz kavernalarında depolanmasının tekno-ekonomik analizi
Jorge Tavares BORGES <i>Ostim Technical University</i> Murat YÜLEK <i>Ostim Technical University</i> K. Ali AKKEMİK <i>Fukuoka University</i>	Artificial Intelligence and The Transformation Of Economic Systems