

PROGRAM

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

Ankara Yıldırım Beyazıt University Milli İrade Campus & Online

11 MAYIS PAZARTESİ | MONDAY, MAY 11

08.30 Kayıt | **Registration**

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

Büyük Konferans Salonu | **Grand Conference Hall**

Assoc. Prof. Sıdıka BAŞÇI, Ph.D.

Ankara Yıldırım Beyazıt University

Econometric Research Association

Prof. İbrahim DEMİR, Ph.D.

Ankara Yıldırım Beyazıt University

Institute for International Relations and Strategic Research

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 (TBC)

10.30 – 10.45 Aile Fotoğrafı | **Family Photo**

10.45 – 12.15 Davetli Konuşmacı | **Keynote Speaker**

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

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, Ph.D.**

Büyük Konferans Salonu | **Grand Conference Hall**

Prof. Enrique MALLEN, Ph.D.

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 I Keynote Speaker	
Oturum Başkanı Session Chair: Prof. Fatih Cemil ÖZBUĞDAY, Ph.D.	
Büyük Konferans Salonu Grand Conference Hall	
Fatih Çağatay AKYÖN (Postgraduate, METU), Viddexa AI, Ultralytics Inc, METU	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. Bige KÜÇÜKEFE, Ph.D.	
Büyük Konferans Salonu Grand Conference Hall	
Yazar(lar) I Author(s)	Bildiri Başlığı I Paper Title
Yeliz YALÇIN Hacı Bayram Veli University M. Kenan TERZİOĞLU Trakya University Ayşegül İŞCANOĞLU ÇEKİÇ Trakya University	Simulation, Optimization, and AI-Based Decision Systems
Fatih Cemil ÖZBUĞDAY Ankara Yıldırım Beyazıt University	Moment Inequality Estimators in Competition Analysis: A Practitioner's Guide with Synthetic Data Applications
Erdem BAŞÇI TED University	Reinforcement Learning in Dynamic Economic Analysis
Emre AYIKLAR Econometric Research Association Sıdika BAŞÇI Ankara Yıldırım Beyazıt University	Intragroup Social Network Analysis Using Sociogram Techniques
Bige KÜÇÜKEFE Tekirdağ Namık Kemal University	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: Cumhur ÇİÇEKÇİ	
Menekşe Salonu Menekşe Room	
Yazar(lar) I Author(s)	Bildiri Başlığı I Paper Title
Aybüke MİNTEMÜR Ankara Yıldırım Beyazıt University Sıdika BAŞÇI Ankara Yıldırım Beyazıt University	Demand Deficiency and Inflation in G20 Countries

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

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=IZ5AX54Z3XrU6fxcBRCpUk2R1el8Ov.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, 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 (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) | Author(s)****Bildiri Başlığı | Paper Title****Muhammed RAHMETULLAH***Ankara Yıldırım Beyazıt University*

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

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

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

Abderrahim CHIBI*University Center of Maghnia***Sidi Mohammed CHEKOURI***University Center of Maghnia*

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

Abdelhadi BENGHALEM <i>ORAN Graduate School of Economics</i> Mohamed BENBOUZIANE <i>University of Tlemcen</i> Rabia Meriem BENBOUZIANE <i>Istanbul Technical University</i>	When Deep Learning Meets Small Data: Revisiting Predictive Superiority in Oil Price Volatility Forecasting
14.00-14.15 Kahve Arası Coffee Break	

12.45-14.00 Oturum 4 Session 4: Sustainability, Energy and Green Economy	
Oturum Başkanı Session Chair: Mohamed BENBOUZIANE	
Menekşe Salonu Menekşe Room	
Yazar(lar) Author(s)	Bildiri Başlığı Paper Title
Hadjer BOULILA <i>University of Tlemcen</i> Rabia Meriem BENBOUZIANE <i>Istanbul Technical University</i> Seyfeddine BENBEKHTI <i>University of Tlemcen</i> Mohamed BENBOUZIANE <i>University of Tlemcen</i>	Can Artificial Intelligence Improve Energy Market Forecasting in Times of Conflict? Evidence from Machine Learning Models
Erol Can İLDES <i>Ankara Social Sciences University</i> Seyid Fahri MAHMUD <i>Ankara Social Sciences University</i>	A Hybrid Machine Learning-Econometric Approach to Modelling Food and Energy Inflation Dynamics in Emerging Markets
Erkan ERDİL <i>Middle East Technical University</i> Gizem ÖĞÜTÇÜ ULAŞ <i>Başkent University</i>	AI, Sustainable Growth, and Long-Term Value Creation
Mohamed BENBOUZIANE <i>University of Tlemcen</i> Abderrezzak BENHABIB <i>University of Tlemcen</i> Benabbou SENOUCI <i>Graduate School of Economics</i>	Forecasting Green Hydrogen Production Potential in Algeria: A Machine Learning Approach
14.00-14.15 Kahve Arası Coffee Break	

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

14.15-15.30	
Oturum 6 Session 6: AI in Economics and Macroeconomic Analysis	
Oturum Başkanı Session Chair: Deniz Göktaş, Ph.D.	
Menekşe Salonu Menekşe Room	
Yazar(lar) Author(s)	Bildiri başlığı Paper Title
Bilgehan ÖZBAY <i>Ankara Yıldırım Beyazıt University</i> Sıdika BAŞÇI <i>Ankara Yıldırım Beyazıt University</i> Koray GÖKSAL <i>Ankara Yıldırım Beyazıt University</i>	E-Ticaret Yükselen Trendinin Belirleyicisi Pandemi mi yoksa Makroekonomik Değişkenler mi?
Ömer Faruk ACAR <i>Ankara Yıldırım Beyazıt University</i> Sıdika 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, Ph.D.	
Büyük Konferans Salonu Grand Conference Hall	
Yazar(lar) Author(s)	Bildiri Başlığı Paper Title
Gülnur ACAR <i>Anadolu University</i> Deniz GÖKTAŞ <i>Bilecik Seyh Edebali University</i>	Socioeconomic determinants of diabetes in Türkiye: A Machine Learning Approach
Selman DAL <i>Cenral Bank of The Republic of Türkiye</i>	Ethical, Legal, and Regulatory Dimensions of AI
Salim SAIDY <i>Ibn Haldun University</i> Mahat Maalim İBRAHİM <i>Ibn Haldun University</i>	Informality as a Structural Trap in The Gambia: Explainable Machine Learning Evidence on Gender, Livelihood Strategies, and Spatial Inequality
Büşra AĞAN ÇELİK <i>OSTİM Technical University</i> Murat YÜLEK <i>OSTİM Technical University,</i> Serdar ÇELİK <i>OSTİM Technical University</i>	Measuring Economic Efficiency and Value Creation in the Age of AI: Metrics, AI Proxies, and Multi-Level Perspectives
Onur AKKAYA <i>Kilis 7 Aralık University</i>	AI-Based Early Warning Systems for Macroeconomic and Financial Crises: Evidence from Emerging Economies

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, Ph.D.	
Prof. Ángel López NİCOLÁS, Ph.D. <i>Universidad Politécnica de Cartagena, Spain</i>	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=BCVBAXZjt0li6dGwWvT9LKRZbi7Ale.1	
Toplantı Kimliği Meeting ID: 870 7748 2201 Parola Password: 388984	
Oturum Başkanı Session Chair : Prof. Elif Uçkan Dağdemir, Ph.D.	
Yazar(lar) Author(s)	Bildiri başlığı Paper Title
Selçuk BAYRACI <i>Borusan Otomotiv R&D Center</i> Garen BOZOĞLANOĞLU <i>Borusan Otomotiv Data Analytics & AI Unit</i>	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
Hava TEMEL <i>Ankara Yıldırım Beyazıt University</i> Furkan SOYSAL <i>Ankara Yıldırım Beyazıt University</i>	Development of a Data-Driven Digital Twin For State of Health Estimation of Li-Ion Batteries
Saliha Ergün TANRIVERDİ <i>Bahçeşehir University</i>	Econometric Approaches to Assessing AI-Driven Efficiency
Selçuk BAYRACI <i>Borusan Otomotiv R&D Center</i> Oğulcan ÇİÇEK <i>Borusan Otomotiv Data Analytics & AI Unit</i>	Predictive Triage of Warranty Claim Settlement Outcomes: A Machine Learning Pipeline for Automotive Goodwill Claim Management
Elif UÇKAN DAĞDEMİR <i>Anadolu University</i>	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, Ph.D.	
Yazar(lar) Author(s)	Bildiri Başlığı Paper Title
Hasibe AYSAN <i>Ostim Technical University</i> Mehmet Necati AYSAN <i>Radio and Television Supreme Council of Türkiye</i>	From Productivity Dip to Well-Being Dividend: Empirical Evidence of AI Integration in Higher Education (2020-2025)
Sibel Dinç AYDEMİR <i>Fatih Sultan Mehmet Vakıf Üniversitesi</i> Yusuf Sinan AKGÜL <i>Gebze Technical University</i> Barış ÖZCAN <i>ForInvest Software and Technology Services Inc.</i> Mine AKSU <i>Sabancı University</i>	Uncovering Turkish Audit Firms' Transparency Report Textual Attributes Through Computer Based Approaches and Linking Them to Audit Quality
Turalay KENÇ <i>The Inceif University</i>	The Future of AI-Driven Economies
Elif Korkmaz TÜMER <i>Ege University</i> Erol Türker TÜMER <i>Dokuz Eylül University</i>	Mapping Circular Economy Performance in the European Union: A Multidimensional Scaling Approach
Mehmet Gökhan ÖZDEMİR <i>Kırıkkale University</i> Mustafa Göktuğ KAYA <i>Karatay University</i>	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=T0maw5fC8LM42mg0fadDVHWc6cdcrQ.1	
Toplantı Kimliği Meeting ID: 816 8452 1699	
Parola Password: 220340	
Oturum Başkanı Session Chair: Assist. Prof. Fatma Özgü Serttaş, Ph.D.	
Yazar(lar) Author(s)	Bildiri Başlığı Paper Title
Mihir 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 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>Çanakkale Onsekiz Mart University</i>	A Memory-Augmented Deep Learning Framework: Integrating Fractional Differentiation with LSTM Networks for DJIMTR Index Analysis
Damla SAĞIROĞLU <i>TED University</i> Halay KOCATÜRK <i>TED University</i> Alp ORHON <i>TED University</i>	The Effect of CBRT Monetary Policy Communication Tone on Foreign Government Bond Investor Flows
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=xVblbii1O6rxFXWQwzjxWnjDaLRrll.1	
Toplantı Kimliği Meeting ID: 867 8382 3477	
Parola Password: 116599	
Oturum Başkanı Session Chair: Jorge Tavares Borges, Ph.D.	
Yazar(lar) Author(s)	Bildiri Başlığı Paper Title
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