

# SERPİL KILIÇ DEPREN

## ASSOC. PROF.

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-5449-2020

ScopusID: 57195905742

Yoksis Researcher ID: 174829

### Learning Knowledge

Doctorate

2008 - 2012

Marmara University, Institute Of Social Sciences, Ekonometri, Turkey

Postgraduate

2006 - 2008

Yildiz Technical University, Graduate School Of Natural And Applied Sciences, İstatistik, Turkey

Undergraduate

2001 - 2006

Yildiz Technical University, Fen Edebiyat Fakültesi, İstatistik, Turkey

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Genelleştirilmiş tahmin denklemlerinde çalışan korelasyon yapısına entropi yaklaşımı, Marmara University, İktisat Fakültesi, Ekonometri Bölümü, 2012

Postgraduate, Hiyerarşik lineer modeller ve bir uygulama, Yildiz Technical University, Graduate School of Natural and Applied Sciences, 2008

### Academic Titles / Tasks

Associate Professor

2019 - Continues

Yildiz Technical University, Faculty Of Arts & Science, Department Of Statistics

Assistant Professor

2018 - 2019

Yildiz Technical University, Faculty Of Arts & Science, Department Of Statistics

Assistant Professor

2013 - 2018

Yıldız Technical University, Faculty Of Arts & Science, Department Of Statistics

## Supported Projects

1. Elalmiş Y., Yücel S., Aydin İ., Altikatoğlu Yapaöz M., Kılıç Depren S., Kınay Taran P., TUBITAK Project, TÜBİTAK 1001 (122M030) - Remineralizasyon ve Biyoaktivite Özelliklerine Sahip Deneysel Rezin Dental Kompozitlerin Niyobyum, Stronsiyum ve Kalsiyum Florür İçerikli Özgün Bir S53P4 Tabanlı Biyoaktif Cam Katkısı ile Üretimi ve Karakterizasyonu, 2022 - 2024
2. Çiçek İ. A., Kılıç Depren S., TUBITAK Project, TÜBİTAK 2209 A - Rusya Ukrayna Savaşının Dolar Kuruna Etkisinin Modellemesi, 2022 - 2023
3. Özulkü B., Kılıç Depren S., TUBITAK Project, TÜBİTAK 2209 A - Makine Öğrenmesi İle OECD Ülkelerinin Çevresel Performansının Tahmin Edilmesi, 2022 - 2023
4. Soğuksu D., Kılıç Depren S., TUBITAK Project, TÜBİTAK 2209 A - Yenilenebilir Enerji Tüketicisi Ve CO<sub>2</sub> Emisyonlarının İnsani Gelişme Endeksine Etkisi: Avrupa Birliği'ne Üye Ve Aday Üye Ülkeler Örneği, 2022 - 2023
5. KILIÇ DEPREN S., KİNSİZ B. N., KANTÜRK FİGEN A., COŞKUNER FİLİZ B., Project Supported by Higher Education Institutions, Merkezi Kompozit Tasarımı ile Heterojen Katalizörlerin Rejenerasyon Prosesinin Optimizasyonu, 2020 - 2022
6. KILIÇ DEPREN S., COŞKUNER FİLİZ B., KANTÜRK FİGEN A., COŞKUNER FİLİZ B., KULAKLI B. N., Project Supported by Higher Education Institutions, Katalitik Faktörlerin Boyar Madde Giderimi Üzerine Etkisinin Deneysel Tasarımda İstatistiksel Yöntemler ile İncelenmesi, 2018 - 2020
7. KANTÜRK FİGEN A., KILIÇ DEPREN S., COŞKUNER FİLİZ B., KESKİN E., COŞKUNER FİLİZ B., Project Supported by Higher Education Institutions, Amonyum Boran Kompozit Pelletlerin Hazırlanması ve Hidrojen Enerji Sisteminde Kullanımı, 2017 - 2018
8. ELALMIŞ Y., KARAKUZU B., YÜCEL S., KILIÇ DEPREN S., AYDIN İ., Project Supported by Higher Education Institutions, Üretilen Alüminyum Katkılı Biyoaktif Camların İlavesi ile Hazırlanan Rezin Bazlı Dental Kompozitlerin Biyoaktivite, İyon Salımı ve Mekanik Özelliklerinin İncelenmesi, 2016 - 2017

## Awards

1. KILIÇ DEPREN S., Yıldız Teknik Üniversitesi Bilimsel Yayın Teşvik Belgesi, Yıldız Teknik Üniversitesi, January 2014
2. KILIÇ DEPREN S., TÜBİTAK Bilimsel Yayınlar Teşvik Ödülü, TÜBİTAK, November 2013
3. KILIÇ DEPREN S., TÜBİTAK Bilimsel Yayınlar Teşvik Ödülü, TÜBİTAK, February 2010
4. KILIÇ DEPREN S., Yıldız Teknik Üniversitesi Bilimsel Yayın Teşvik Belgesi, Yıldız Teknik Üniversitesi, January 2010
5. KILIÇ DEPREN S., Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, İstatistik Bölümü, 2005-2006 eğitim-öğretim yılı, Bahar yarıyılı, "Fakülte İkincisi", "Bölüm Birincisi", Yıldız Teknik Üniversitesi, June 2006

## Scholarships

Yurtıcı Yüksek Lisans Bursu, TUBITAK, 2006 - 2008

## Jury Memberships

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, June, 2023

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, May, 2023

Doctoral Examination, Doctoral Examination, Orta Doğu Teknik Üniversitesi, May, 2023

Post Graduate, Post Graduate, İstanbul Ticaret Üniversitesi, September, 2022

Post Graduate, Post Graduate, İstanbul Ticaret Üniversitesi, September, 2022

Post Graduate, Post Graduate, İstanbul Ticaret Üniversitesi, July, 2020

Post Graduate, Post Graduate, İstanbul Ticaret Üniversitesi, July, 2020

Doctorate, Doctorate, İstanbul Ticaret Üniversitesi, July, 2020

Doctoral Examination, Doctoral Examination, İstanbul Ticaret Üniversitesi, July, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, June, 2020

## Designed Lessons

Kılıç Depren S., Introduction to Actuary, Undergraduate, 2018 - 2019

Kılıç Depren S., Social Network Analysis, Postgraduate, 2017 - 2018

Kılıç Depren S., Longitudinal Data Analysis, Doctorate, 2016 - 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

1. **Quantile-based heterogeneous effects of nuclear energy and political stability on the environment in highly nuclear energy-consuming and politically stable countries**  
Kartal M. T., Kılıç Depren S., Ayhan F., Ulussever T.  
APPLIED ENERGY, vol.365, pp.123237, 2024 (SCI-Expanded)
2. **Dynamic Effect of Disaggregated Level Electricity Generation on Residential Carbon Emissions: Daily Inference from the Largest EU Economies**  
Pata U. K., Kartal M. T., Alola A. A., Kılıç Depren S.  
ENERGY STRATEGY REVIEWS, vol.53, pp.101363, 2024 (SCI-Expanded)
3. **Impact of Nuclear Energy and Hydro Electricity Consumption in Achieving Environmental Quality: Evidence from Load Capacity Factor by Quantile Based Non-linear Approaches**  
Özcan B., Kılıç Depren S., Kartal M. T.  
GONDWANA RESEARCH, vol.129, pp.412-424, 2024 (SCI-Expanded)
4. **Role of Energy Transition in Easing Energy Security Risk and Decreasing CO<sub>2</sub> Emissions: Disaggregated Level Evidence from the USA by Quantile-Based Models**  
Kartal M. T., Taşkın Yeşilova F. D., Shahbaz M., Kırıkkaleli D., Kılıç Depren S.  
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.359, pp.120971, 2024 (SCI-Expanded)
5. **Dynamic relationship between green bonds, energy prices, geopolitical risk, and disaggregated level CO<sub>2</sub> emissions: Evidence from the globe by novel WLMC approach**  
Kartal M. T., Taşkın Yeşilova F. D., Kılıç Depren S.  
AIR QUALITY, ATMOSPHERE AND HEALTH, vol.0, pp.1-13, 2024 (SCI-Expanded)
6. **Time and Frequency Analysis of Daily-Based Nexus between Global CO<sub>2</sub> Emissions and Electricity Generation Nexus by Novel WLMC Approach**  
Kartal M. T., Ulussever T., Pata U. K., Kılıç Depren S.  
SCIENTIFIC REPORTS, vol.14, pp.3698, 2024 (SCI-Expanded)
7. **Optimizing Air Quality Predictions: A Discrete Wavelet Transform and Long Short-Term Memory Approach with Wavelet Type Selection for Hourly PM<sub>10</sub> Concentrations**  
Taşagil Arslan G. N., Kılıç Depren S.  
JOURNAL OF CHEMOMETRICS, vol.0, pp.3539, 2024 (SCI-Expanded)
8. **Time, Frequency, and Quantile-Based Impacts of Disaggregated Electricity Generation on Carbon Neutrality: Evidence from Leading European Union Countries**  
Kartal M. T., Pata U. K., Kılıç Depren S., Erdoğan S.

INTERNATIONAL JOURNAL OF SUSTAINABLE DEVELOPMENT AND WORLD ECOLOGY, vol.31, no.1, pp.89-107, 2024 (SCI-Expanded)

9. **Effect of Political Stability, Geopolitical Risk, and R&D Investments on Environmental Sustainability: Evidence from European Countries by Novel Quantile Models**  
Kılıç Depren S., Erdoğan S., Kartal M. T., Pata U. K.  
POLITICKA EKONOMIE, vol.72, no.2, pp.1413, 2024 (SSCI)
10. **Modeling the Link between Environmental, Social, and Governance Disclosures and Scores: The Case of Publicly Traded Companies in the Borsa İstanbul Sustainability Index**  
Kartal M. T., Kılıç Depren S., Pata U. K., Taşkin Yeşilova F. D., Şamlı İbiş H. T.  
Financial Innovation, vol.10, no.80, pp.1-20, 2024 (SSCI)
11. **The Role of Information and Communication Technologies and Energy-Related Research and Development Investments in Energy Transition: Evidence from the United States of America by Machine Learning Algorithm**  
Pata U. K., Kartal M. T., KILIÇ DEPREN S.  
Energy Technology, 2024 (SCI-Expanded)
12. **Regeneration of Co-based bead type catalyst in ammonia borane hydrolysis for hydrogen generation: Artificial neural networks and response surface methodology**  
Coşkuner Filiz B., Kinsiz B. N., Kılıç Depren S., Kantürk Figen A.  
Journal of Cleaner Production, vol.419, 2023 (SCI-Expanded)
13. **Investigating Political Stability Effect on the Environment in the Netherlands by Fourier-Based Approaches**  
Kartal M. T., Kırıkkaleli D., Kılıç Depren S.  
INTERNATIONAL JOURNAL OF SUSTAINABLE DEVELOPMENT AND WORLD ECOLOGY, vol.31, no.2, pp.125-136, 2023 (SCI-Expanded)
14. **Natural Gas Supply Cuts and Searching Alternatives in Germany: A Disaggregated Level Energy Consumption Analysis for Environmental Quality by Time Series Approaches**  
Kartal M. T., Kılıç Depren S., Ayhan F.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.0, no.0, pp.1-18, 2023 (SCI-Expanded)
15. **Effect of income, energy consumption, energy prices, political stability, and geopolitical risk on the environment: Evidence from GCC countries by novel quantile-based methods**  
Ulussever T., Kartal M. T., Kılıç Depren S.  
ENERGY & ENVIRONMENT, vol.0, no.0, pp.1-26, 2023 (SSCI)
16. **Can Environmentally Friendly Technology Help China to Achieve A Carbon Neutrality Target by 2060? An Asymmetrical Based Study in China**  
Nurgazina Z., Guo Q., Ali U., Sharif A., Khan Z. A., Kartal M. T., Kılıç Depren S.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.0, pp.1-14, 2023 (SCI-Expanded)
17. **Dynamic Link between Central Bank Reserves, Credit Default Swap Spreads, and Foreign Exchange Rates: Evidence from Turkey by Time Series Econometrics**  
Kartal M. T., Ulussever T., Pata U. K., Kılıç Depren S.  
HELIYON, vol.9, no.5, pp.16392, 2023 (SCI-Expanded)
18. **Effect of Political Stability on Environmental Quality: Long-Run and Asymmetric Evidence from Iceland by Non-linear Approaches**  
Kılıç Depren S., Kartal M. T., Kırıkkaleli D., Depren Ö.  
AIR QUALITY, ATMOSPHERE AND HEALTH, vol.16, pp.1407-1417, 2023 (SCI-Expanded)
19. **Heterogeneous Impact of Industrialization, Foreign Direct Investments, and Technological Innovation on Carbon Emissions Intensity: Evidence from Kingdom of Saudi Arabia**  
Ali U., Guo Q., Nurgazina Z., Sharif A., Kartal M. T., Kılıç Depren S., Khan A.  
APPLIED ENERGY, vol.336, pp.120804, 2023 (SCI-Expanded)
20. **Evaluation of the Role of Clean Energy Technologies, Human Capital, Urbanization, and Income on the Environmental Quality in the United States**  
Pata U. K., Çağlar A. E., Kartal M. T., Kılıç Depren S.

- JOURNAL OF CLEANER PRODUCTION, vol.402, pp.136802, 2023 (SCI-Expanded)
21. Effects of Possible Changes in Natural Gas, Nuclear, and Coal Energy Consumption on CO<sub>2</sub> Emissions: Evidence from France under Russia's Gas Supply Cuts by Dynamic ARDL Simulations Approach  
 Kartal M. T., Pata U. K., Kılıç Depren S., Depren Ö.  
 APPLIED ENERGY, vol.339, pp.120983, 2023 (SCI-Expanded)
22. Asymmetric effect of political stability on production-based CO<sub>2</sub> emissions in the UK: Long-run evidence from nonlinear ARDL and frequency domain causality  
 Kartal M. T., Kılıç Depren S., Kirikkaleli D.  
 ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.12, pp.33886-33897, 2023 (SCI-Expanded)
23. Heterogeneous Impact of Environmental Taxes on Environmental Quality: Tax Domain Based Evidence from the Nordic Countries by Nonparametric Quantile Approaches  
 Depren Ö., Kartal M. T., Ayhan F., Kılıç Depren S.  
 JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.329, pp.117031, 2023 (SCI-Expanded)
24. Estimation Performance Comparison of Machine Learning Approaches and Time Series Econometric Models: Evidence from the Effect of Sector-based Energy Consumption on CO<sub>2</sub> Emissions in the USA  
 Ulussever T., Kılıç Depren S., Kartal M. T., Depren Ö.  
 ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.18, pp.52576-52592, 2023 (SCI-Expanded)
25. Estimation of Impacts of Global Factors on World Food Prices: A Comparison of Machine Learning Algorithms and Time Series Econometric Models  
 Ulussever T., Ertuğrul H. M., Kılıç Depren S., Kartal M. T., Depren Ö.  
 FOODS, vol.12, no.4, pp.873, 2023 (SCI-Expanded)
26. Do Nuclear Energy and Renewable Energy Surge Environmental Quality in the United States? New Insights from Novel Bootstrap Fourier Granger Causality in Quantiles Approach  
 Kartal M. T., Samour A., Adebayo T. S., Kılıç Depren S.  
 PROGRESS IN NUCLEAR ENERGY, vol.155, pp.1-13, 2023 (SCI-Expanded)
27. Asymmetric Effect of Economic Policy Uncertainty, Political Stability, Energy Consumption, and Economic Growth on CO<sub>2</sub> Emissions: Evidence from G-7 Countries  
 Ayhan F., Kartal M. T., Kılıç Depren S., Depren Ö.  
 ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.16, pp.47422-47437, 2023 (SCI-Expanded)
28. Long-run impact of coal usage decline on CO<sub>2</sub> emissions and economic growth: Evidence from disaggregated energy consumption perspective for China and India by dynamic ARDL simulations  
 Kartal M. T., Kılıç Depren S., Ali U., Nurgazina Z.  
 ENERGY & ENVIRONMENT, vol.0, no.0, pp.1-25, 2023 (SSCI)
29. Role of Green Technology, Environmental Taxes, and Green Energy Towards Sustainable Environment: Insights from Sovereign Nordic Countries by CS-ARDL Approach  
 Sharif A., Kartal M. T., Bekun F. V., Pata U. K., Chan L., Kılıç Depren S.  
 GONDWANA RESEARCH, vol.117, pp.194-206, 2023 (SCI-Expanded)
30. Determinants of Electricity Prices in Turkey: An Application of Machine Learning and Time Series Models  
 Ertuğrul H. M., Kartal M. T., Kılıç Depren S., Soytaş U.  
 ENERGIES, vol.15, no.20, pp.7512, 2022 (SCI-Expanded)
31. Asymmetric and Long-Run Impact of Political Stability on Consumption-Based Carbon Dioxide Emissions in Finland: Evidence from Nonlinear and Fourier-Based Approaches  
 Kartal M. T., Kılıç Depren S., Kirikkaleli D., Depren Ö., Khan U.  
 JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.321, pp.116043, 2022 (SCI-Expanded)
32. Cross-Cultural Comparisons of the Factors Influencing the High Reading Achievement in Turkey and China: Evidence from PISA 2018  
 Kılıç Depren S., Depren Ö.  
 ASIA-PACIFIC EDUCATION RESEARCHER, vol.31, no.4, pp.427-437, 2022 (SSCI)
33. Energy Consumption and Environmental Degradation Nexus: A Systematic Review and Meta-Analysis

- of Fossil Fuel and Renewable Energy Consumption**  
Kılıç Depren S., Kartal M. T., Çoban Çelikdemir N., Depren Ö.  
ECOLOGICAL INFORMATICS, vol.70, pp.1-14, 2022 (SCI-Expanded)
34. **Impact of Renewable and Fossil Fuel Energy on Environmental Degradation: Evidence from USA by Nonlinear Approaches**  
Kartal M. T., Kılıç Depren S., Ayhan F., Depren Ö.  
INTERNATIONAL JOURNAL OF SUSTAINABLE DEVELOPMENT AND WORLD ECOLOGY, vol.29, no.8, pp.738-755, 2022 (SCI-Expanded)
35. **The role of data frequency and method selection in electricity price estimation: Comparative evidence from Turkey in pre-pandemic and pandemic periods**  
Kılıç Depren S., Kartal M. T., Ertuğrul H. M., Depren Ö.  
RENEWABLE ENERGY, vol.186, pp.217-225, 2022 (SCI-Expanded)
36. **Prediction on the volume of non-performing loans in Turkey using multivariate adaptive regression splines approach**  
Kılıç Depren S., Kartal M. T.  
INTERNATIONAL JOURNAL OF FINANCE & ECONOMICS, vol.26, no.4, pp.6395-6405, 2021 (SSCI)
37. **Changes of gold prices in COVID-19 pandemic: Daily evidence from Turkey's monetary policy measures with selected determinants**  
Depren O., Kartal M. T., Kılıç Depren S.  
TECHNOLOGICAL FORECASTING AND SOCIAL CHANGE, vol.170, 2021 (SSCI)
38. **Investigation of alumina doped 45S5 glass as a bioactive filler for experimental dental composites**  
Elalımis Y., Karakuzu İkizler B., Kılıç Depren S., Yücel S., Aydin İ.  
INTERNATIONAL JOURNAL OF APPLIED GLASS SCIENCE, vol.12, no.3, pp.313-327, 2021 (SCI-Expanded)
39. **Recent innovation in benchmark rates (BMR): evidence from influential factors on Turkish Lira Overnight Reference Interest Rate with machine learning algorithms**  
Depren O., Kartal M. T., Kılıç Depren S.  
FINANCIAL INNOVATION, vol.7, no.1, 2021 (SSCI)
40. **Inference of stress-strength reliability for two-parameter of exponentiated Gumbel distribution based on lower record values**  
Fayyazishishavan E., Kılıç Depren S.  
PLOS ONE, vol.16, no.4, 2021 (SCI-Expanded)
41. **Nano-casting procedure for catalytic cobalt oxide bead preparation from calcium-alginate capsules: Activity in ammonia borane hydrolysis reaction**  
Kinsiz B. N., Coşkuner Filiz B., Kılıç Depren S., Kantürk Figen A.  
Applied Materials Today, vol.22, 2021 (SCI-Expanded)
42. **How Main Stock Exchange Indices React to Covid-19 Pandemic: Daily Evidence from East Asian Countries**  
Kartal M. T., Kılıç Depren S., Depren Ö.  
GLOBAL ECONOMIC REVIEW, vol.50, no.1, pp.54-71, 2021 (SSCI)
43. **Reusable hybrid foam catalyst for hydrolytic dehydrogenation of amine adducts of borane: Porous PVA-Immobilized Co-Ru nanoparticles**  
Geniş D., Coşkuner Filiz B., Kılıç Depren S., Kantürk Figen A.  
Microporous and Mesoporous Materials, vol.305, 2020 (SCI-Expanded)
44. **Ultra-layered sheet Cu-Co nanoparticles for optimized application in catalytic reduction of organic dye**  
Kılıç Depren S., Coşkuner Filiz B., Kulaklı B. N., Kantürk Figen A.  
Materials Characterization, vol.160, 2020 (SCI-Expanded)
45. **DETERMINATION OF THE FACTORS AFFECTING STUDENTS' SCIENCE ACHIEVEMENT LEVEL IN TURKEY AND SINGAPORE: AN APPLICATION OF QUANTILE REGRESSION MIXTURE MODEL**  
Kılıç Depren S.  
JOURNAL OF BALTIC SCIENCE EDUCATION, vol.19, no.2, pp.247-260, 2020 (SSCI)

46. **Recommendations for ammonia borane composite pellets as a hydrogen storage medium**  
 Keskin E., Filiz B., Depren S., Figen A.  
 INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.45, pp.20354-20371, 2018 (SCI-Expanded)
47. **PREDICTION OF STUDENTS' SCIENCE ACHIEVEMENT: AN APPLICATION OF MULTIVARIATE ADAPTIVE REGRESSION SPLINES AND REGRESSION TREES**  
 KILIÇ DEPREN S.  
 JOURNAL OF BALTIC SCIENCE EDUCATION, vol.17, no.5, pp.887-903, 2018 (SSCI)
48. **Identifying the Classification Performances of Educational Data Mining Methods: A Case Study for TIMSS**  
 KILIÇ DEPREN S., Askin O. E., ÖZ E.  
 EDUCATIONAL SCIENCES-THEORY & PRACTICE, vol.17, no.5, pp.1605-1623, 2017 (SSCI)
49. **Comparison of Learning Strategies for Mathematics Achievement in Turkey with Eight Countries**  
 KILIC S., Cene E., Demir İ.  
 KURAM VE UYGULAMADA EGITIM BILIMLERI, vol.12, no.4, pp.2594-2598, 2012 (SSCI)
50. **USING PISA 2003, EXAMINING THE FACTORS AFFECTING STUDENTS' MATHEMATICS ACHIEVEMENT**  
 Demir İ., Kılıç S.  
 HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGİSİ-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION, pp.44-54, 2010 (SSCI)

#### Articles Published in Other Journals

1. **The Impacts of Monetary Policy Responses to COVID-19 Pandemic on National Currencies: An Emerging Country Case**  
 Depren Ö., Kartal M. T., Kılıç Depren S.  
 INTERNATIONAL JOURNAL OF ECONOMIC POLICY IN EMERGING ECONOMIES, vol.17, no.2, pp.183-195, 2023 (Scopus)
2. **Housing prices in emerging countries during COVID-19: evidence from Turkey**  
 Kartal M. T., Kılıç Depren S., Depren Ö.  
 INTERNATIONAL JOURNAL OF HOUSING MARKETS AND ANALYSIS, vol.16, no.3, pp.598-615, 2023 (ESCI)
3. **The Impact of Priority Issues for Publicly Traded Companies in Corporate Governance (CG) Rating Notes: An Empirical Study in Turkey**  
 Kartal M. T., Kılıç Depren S., Depren Ö.  
 CORPORATE GOVERNANCE, vol.17, no.2, pp.183-195, 2023 (ESCI)
4. **Absenteeism, Self-Confidence and Academic Performance: Empirical Comparison of Turkey and Singapore**  
 Depren Ö., Bağdatlı Kalkan S., Kılıç Depren S.  
 EUROPEAN JOURNAL OF EDUCATIONAL RESEARCH, vol.12, no.1, pp.481-491, 2023 (Scopus)
5. **Assessing the Heterogeneity of Social Connectedness Index via Quantile Regression Mixture Model**  
 Kurtuluş T., Kılıç Depren S.  
 Pamukkale University Journal of Engineering Sciences, vol.28, no.4, pp.625-631, 2022 (ESCI)
6. **Sovereign Credit Default Swap (CDS) Spreads Changes in Various Economic Conjunctures: Evidence from Turkey By Machine Learning Algorithms**  
 Kartal M. T., Kılıç Depren S., Depren Ö.  
 Yönetim ve Ekonomi Araştırmaları Dergisi, vol.20, no.1, pp.354-374, 2022 (Peer-Reviewed Journal)
7. **How economic freedom affect the ease of doing business? Cross-country quantile regression mixture approach**  
 Kılıç Depren S., Depren Ö.  
 SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.39, no.5, pp.434-442, 2021 (ESCI)
8. **The Role of Economic Freedom in Interpreting Corruption Perception**

- Yangın G., Kılıç Depren S.  
INTERNATIONAL AND MULTIDISCIPLINARY JOURNAL OF SOCIAL SCIENCES-RIMCIS, vol.10, no.3, pp.40-63, 2021  
(ESCI)
9. **Türkiye'de Cari Açığı Etkileyen Faktörlerin Belirlenmesine Yönelik İstatistiksel Bir Araştırma**  
Kılıç Depren S.  
İstanbul Gelişim Üniversitesi Sosyal Bilimler Dergisi, vol.8, no.2, pp.426-444, 2021 (Peer-Reviewed Journal)
10. **Do Monetary Policy Measures Affect Foreign Exchange Rates during the COVID-19 Pandemic? Evidence from Turkey**  
Kartal M. T., Depren Ö., Kılıç Depren S.  
Journal of BRSA Banking and Financial Markets, vol.15, no.2, pp.175-202, 2021 (Peer-Reviewed Journal)
11. **MACROECONOMIC DETERMINANTS OF INTEREST RATES IN BRICST, MINT, AND FRAGILE FIVE COUNTRIES: EVIDENCE FROM QUANTILE REGRESSION ANALYSIS**  
Depren Ö., Kartal M. T., Kılıç Depren S.  
STUDIES IN BUSINESS AND ECONOMICS, vol.16, no.1, pp.51-67, 2021 (ESCI)
12. **The Relationship between Mobility and COVID-19 Pandemic: Daily Evidence from an Emerging Country by Causality Analysis**  
Kartal M. T., Depren Ö., Kılıç Depren S.  
Transportation Research Interdisciplinary Perspectives, vol.10, pp.1-10, 2021 (Scopus)
13. **New manufacturing methodology for boron-based rods for remedial treatments of wood: solubilities and some physical and thermal properties of the rods**  
Aydin S., TERZİ E., Kartal S. N., PİŞKİN S., Depren S. K., Figen A. K.  
SN APPLIED SCIENCES, vol.2, no.11, 2020 (ESCI)
14. **Determination of Influential Factors on Non-Performing Loans: Evidence from Turkey**  
Kartal M. T., Depren Ö., Kılıç Depren S.  
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15. **The Determinants of Main Stock Exchange Index Changes in Emerging Countries: Evidence from Turkey in COVID-19 Pandemic Age**  
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16. **The Effectiveness of Different Machine Learning Algorithms on Basketball Players' Shooting Performance**  
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20. **Türk Bankacılık Sektöründe İç Denetçilerin Bağımsızlığı Üzerine Bir Araştırma**  
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21. **Borsalarda Oynaklık Üzerine Yayınlanmış Akademik Çalışmaların Bibliyometrik Analizi**  
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22. **Churn Propensity Model for Customers Who Made a Complaint in Retail Banking**  
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24. **Tüketici Güven Endeksine Göre Ülkelerin Kümelenmesi ve İnsani Gelişme Endeksi İle Değerlendirilmesi**  
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30. **Measuring Efficiency and Total Productivity using Data Envelopment Analysis: An Empirical Study from Banks of Turkey**  
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3. **Presence and Representation of Women on Board of Directors: A Survey-Based Research upon**

## **Companies in Turkey**

Kartal M. T., Kılıç Depren S.

in: The Role of Women in Turkish Economy: Current Situation, Problems and Policies, Elif Nuroğlu, Çiydem Çatak, Editor, Peter Lang Publishing, Inc., Berlin, pp.105-133, 2020

## **4. Quantile Regression Approach For Mixed Models to Analyze the Differences of Mathematics Achievement in Turkey**

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## **5. Banka Müşterilerinin Gizli Sınıf Analizi ile Ürün Kullanımlarına Göre Sınıflandırılması**

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## **Refereed Congress / Symposium Publications in Proceedings**

### **1. Linear Splines with Knots Yield Better Effect Size Compared to Repeated Measures ANOVA**

Dilkem O., Kılıç Depren S.

7th International Researchers, Statisticians, and Young Statisticians Congress (IRSYSC 2023), İstanbul, Turkey, 2 - 05 November 2023

### **2. 2023 Milletler Ligi Kadın Voleybolcu Performanslarının Çok Kriterli Karar Verme Yöntemleri ile Değerlendirilmesi**

Karaman A., Kılıç Depren S.

7th International Researchers, Statisticians, and Young Statisticians Congress (IRSYSC 2023), İstanbul, Turkey, 2 - 05 November 2023

### **3. A Neural Network Based Model Using a Wavelet Transform Approach for Observational Data**

Taşağıl Arslan G. N., Kılıç Depren S.

7th International Researchers, Statisticians, and Young Statisticians Congress (IRSYSC 2023), İstanbul, Turkey, 2 - 05 November 2023

### **4. A Hybrid Method Based on Wavelet Transform and Neural Network Approach for Meteorological Data Prediction**

Taşağıl Arslan G. N., Kılıç Depren S.

9th International Conference on Advances in Statistics (ICAS 2023), Baku, Azerbaijan, 20 - 22 June 2023, pp.41-42

### **5. A Propensity Score Matching of the Bullying Effects on Academic Success**

Yıldız S., Kılıç Depren S.

5th International Conference on Data Science and Applications (ICONDATA 2022), Muğla, Turkey, 7 - 11 September 2022

### **6. Türkiye'de Küresel Kriz Sonrasında Takipteki Kredileri Etkileyen Faktörlerin İncelenmesi**

Kartal M. T., Kılıç Depren S., Depren Ö.

VI. Yıldız Sosyal Bilimler Kongresi, İstanbul, Turkey, 12 - 13 December 2019, pp.492

### **7. Generalization and Compounding Statistical Distributions, Goals and Benefits: A Review**

Fayyazishishavan E., Kılıç Depren S.

11th International Statistics Congress, Muğla, Turkey, 4 - 08 October 2019, pp.147

### **8. Karma Modellerde Kantil Regresyon Yaklaşımı le Türkiye'de Matematik Başarısı Farklılıklarının İncelenmesi**

Kılıç Depren S.

4. Uluslararası Bilimsel Araştırmalar Kongresi (UBAK 2019), Yalova, Turkey, 14 - 17 February 2019

### **9. Examining the Maps of Air Transport Network Characteristics**

Kılıç Depren S., Gökalp Yavuz F.

1st International Conference on Data Science and Applications-ICONDATA 2018, Yalova, Turkey, 04 October 2018, pp.54-55

10. **A Shiny App for Subgroup Discovery Using Activity Region Finder (ARF)**  
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11. **Web of Knowledge Veri Tabanında Borsalardaki Oynaklık Üzerine Yapılan Çalışmaların Bibliyometrik Analizi**  
DEPREN Ö., KARTAL M. T., KILIÇ DEPREN S.  
IV. Yıldız Sosyal Bilimler Kongresi, İstanbul, Turkey, 21 December 2017, pp.85
12. **Gizli Sınıf Regresyon Analizi ile Evdeki Eğitim Kaynaklarına Göre Başarı Profilinin Belirlenmesi**  
Kılıç Depren S., Bağdatlı Kalkan S.  
18. Uluslararası Ekonometri, Yöneylem Araştırması ve İstatistik Sempozyumu, Trabzon, Turkey, 5 - 07 October 2017, pp.299
13. **Klasik ve Entropi Temelli Optimal Portföy Seçim Yöntemlerinin Karşılaştırılması: BİST-30 Uygulaması**  
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37. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi, İstanbul, Turkey, 5 - 07 July 2017, pp.122
14. **Investigating the Classification Performances of Support Vector Machines and Logistic Regression: A Case Study on PISA 2012**  
Öz E., Kılıç Depren S., Aşkın Ö. E.  
END 2017, Lisbon, Portugal, 24 - 26 June 2017, pp.27-31
15. **Comparing Data Mining Methods for Classification of Students' Science Success**  
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END 2017, Lisbon, Portugal, 24 - 26 June 2017, pp.47-51
16. **Decision Tree Approach for Predicting Students' Mathematics Achievement of TIMSS Study**  
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18. **Lojistik Regresyon ve Bankacılık Verileri Üzerine Bir Uygulama**  
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19. **An Evaluation of Scientific Publications by Using Social Network Analysis**  
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9th International Statistics Day Symposium (ISDS 2014), Antalya, Turkey, 10 May 2014, pp.61
20. **Comparison of Ordinal Logistic Regression Models: An Application of Customer Loyalty**  
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9th International Statistics Day Symposium (ISDS 2014), Antalya, Turkey, 10 May 2014, pp.62
21. **The Entropy Approaches to Working Correlation Structures in Generalized Estimating Equation for Longitudinal Binary Data**  
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8th International Symposium of Statistics, Eskişehir, Turkey, 11 - 13 October 2012, pp.237-239
22. **Assessing the Relationship between Educational Performance and Attitudes of Turkish Students**  
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1st International Eurasian Conference on Mathematical Sciences and Applications, Priştine, Kosova, 3 - 07 September 2012, pp.300
23. **Comparison of Learning Strategies for Mathematics Achievement between Turkey and Its Neighbours**  
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12th International Econometrics, Operation Research and Statistics Symposium, Denizli, Turkey, 26 - 29 May 2011, pp.402-408

24. **Comparison the Performance of Players Playing Guard Position in NBA in 2009-2010 Season**  
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 12. Uluslararası Ekonometri, Yöneylem Araştırması ve İstatistik Sempozyumu (EYİ 2011/12th International Econometrics, Operation Research and Statistics Symposium), Denizli, Turkey, 01 May 2011, pp.653-667
25. **Genelleştirilmiş Tahmin Denklemlerinde Korelasyon Yapılarının İncelenmesi**  
 Kılıç Depren S., Çilingirtürk A. M.  
 12. Uluslararası Ekonometri, Yöneylem Araştırması ve İstatistik Sempozyumu (EYİ 2011/12th International Econometrics, Operation Research and Statistics Symposium), Denizli, Turkey, 01 May 2011, pp.323-333
26. **A Logistic Regression Analysis on the Effects of Mathematics Achievement of Information and Communication Technologies (ICT) Usage: Findings from PISA 2006**  
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27. **The Effects of Turkish Students' Learning Strategies on Mathematics Achievement: Findings from PISA**  
 Demir İ., Kılıç Depren S., Ünal H.  
 Uluslararası 5. Balkan Eğitim ve Bilim Kongresi, Edirne, Turkey, 1 - 03 October 2009, pp.265-267
28. **Öğrencinin Aile Yapısının ve Sahip Olduğu İmkanların Matematikte Başarısının Karar Ağacı yaklaşımı ile modellenmesi**  
 Demir İ., Depren Ö., Kılıç Depren S.  
 Uluslararası 5. Balkan Eğitim ve Bilim Kongresi, Edirne, Turkey, 1 - 03 October 2009, pp.268-271
29. **2006 yılı Ortaöğretim kurumlarının Matematik Başarısının Karar Ağacı yaklaşımı ile modellenmesi**  
 Kılıç Depren S., Demir İ., Depren Ö.  
 18. Ulusal Eğitim Bilimleri Kurultayı, İzmir, Turkey, 1 - 03 October 2009, pp.7
30. **Measuring Efficiency of Secondary Schools in Different Regions in Turkey Using Data Envelopment Analysis**  
 Demir İ., Kılıç Depren S., Depren Ö.  
 1. Uluslararası Türkiye Eğitim Araştırmaları Kongresi, Çanakkale, Turkey, 1 - 03 May 2009, pp.268-271
31. **Matematikte başarı üzerine öğrencilerin kendileriyle ilgili görüşleri**  
 Demir İ., Kılıç Depren S.  
 6. İstatistik Kongresi, Antalya, Turkey, 29 April - 03 May 2009, pp.476-484

### Academic and Administrative Experience

	<b>Bölüm Akademik Teşvik</b>	
2020 - Continues	<b>Değerlendirme Komisyonu Üyesi</b>	Yildiz Technical University, Faculty Of Arts & Science, Department Of Statistics
2019 - Continues	<b>FEDEK Komisyon Üyesi</b>	Yildiz Technical University, Faculty of Arts & Science, Department of Statistics
2019 - 2021	<b>Assistant Manager of Research and Application Center</b>	Yildiz Technical University, Faculty Of Arts & Science, Department Of Statistics
2016 - 2019	<b>Mevlana Exchange Program Institutional Coordinator</b>	Yildiz Technical University, Faculty of Arts & Science, Department of Statistics
2014 - 2015	<b>Deputy Head of Department</b>	Yildiz Technical University, Faculty of Arts & Science, Department of Statistics

## Courses

Uzmanlık Alan Dersi (DR), Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019,  
2017 - 2018

Professional English II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019,  
2017 - 2018, 2015 - 2016

Bitirme Çalışması, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017  
- 2018, 2015 - 2016, 2014 - 2015

Yüksek Lisans Tezi, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 -  
2018, 2015 - 2016, 2014 - 2015

Mathematical Statistics, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Doktora Tezi, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Uzmanlık Alan Dersi (YL), Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019,  
2017 - 2018, 2015 - 2016, 2014 - 2015

Kategorik Veri Analizi, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Introduction to Mathematical Statistics, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Sosyal Ağ Analizi, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2017 - 2018

Aktüeryaya Giriş, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Professional English I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019,  
2016 - 2017, 2015 - 2016

Kategorik Veri Analizine Giriş, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 -  
2016, 2014 - 2015

İstatistik ve Olasılık II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016

Olasılık, Undergraduate, 2019 - 2020

İstatistik ve Olasılık I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2016 - 2017

Uygulamalı Genelleştirilmiş Doğrusal Modeller II, Doctorate, 2015 - 2016, 2014 - 2015

Boylamsal Veri Analizi, Doctorate, 2016 - 2017

İstatistik II, Undergraduate, 2014 - 2015

Uygulamalı Genelleştirilmiş Doğrusal Modeller I, Doctorate, 2015 - 2016

İstatistik I, Undergraduate, 2015 - 2016

## Advising Theses

Kılıç Depren S., Duygu Analizinde Derin Öğrenme ve Makine Öğrenme Yöntemlerinin Kiyaslanması, Doctorate,  
G.YANGIN(Student), Continues

Kılıç Depren S., Moment kantil regresyon yöntemi ile enerji tüketimini etkileyen faktörlerin belirlenmesi, Postgraduate,  
S.DOĞAN(Student), Continues

Kılıç Depren S., Prediction of Deep Learning Methods using Wavelet Transform, Doctorate, G.Nur(Student), Continues

Kılıç Depren S., Makine Öğrenmesiyle Eğilim Skoru Eşleştirme, Doctorate, D.ALKIN(Student), Continues

Kılıç Depren S., Çevresel Performansların Yapay Zeka Yöntemleriyle Değerlendirilmesi, Doctorate, C.ARSLAN(Student),  
Continues

Kılıç Depren S., Modelling the effects of myoglobin removal in rhabdomyolysis patients, Postgraduate,  
O.DİLKEN(Student), Continues

Kılıç Depren S., Kadın Voleybolcu Performanslarının Çok Kriterli Karar Verme Yöntemleri ile Değerlendirilmesi: 2023  
Milletler Ligi Uygulaması, Postgraduate, A.KARAMAN(Student), 2024

Kılıç Depren S., A Balance Analysis in Observational Studies Propensity Score Matching, Postgraduate, S.YILDIZ(Student),

2023

Kılıç Depren S., Inference of Stress-Strength Reliability for Two-Parameter of Exponentiated Gumbel Distribution Based on Lower Record Values, Doctorate, E.FAYYAZISHISHAVAN(Student), 2021  
KILIÇ DEPREN S., Kredi Kartı Kullanım Alışkanlıkları Üzerine Gizli Sınıf Analizi, Postgraduate, B.ÖZKAN(Student), 2016

## Scientific Refereeing

ENERGY & ENVIRONMENT, Journal Indexed in SSCI, March 2024  
HELIYON, Journal Indexed in SCI-E, February 2024  
APPLIED ENERGY, Journal Indexed in SCI-E, January 2024  
ENVIRONMENTAL POLLUTION, Journal Indexed in SCI-E, January 2024  
INTERNATIONAL JOURNAL OF SUSTAINABLE DEVELOPMENT AND WORLD ECOLOGY, SCI Journal, December 2023  
ENERGY STRATEGY REVIEWS, Journal Indexed in SCI-E, October 2023  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, Journal Indexed in SCI-E, September 2023  
ENVIRONMENTAL DEVELOPMENT, Journal Indexed in SCI-E, July 2023  
ASIA PACIFIC EDUCATION REVIEW, Journal Indexed in SSCI, July 2023  
Financial Innovation, Journal Indexed in SCI-E, May 2023  
NUCLEAR ENGINEERING AND TECHNOLOGY, Journal Indexed in SCI-E, May 2023  
GONDWANA RESEARCH, Journal Indexed in SCI-E, April 2023  
JOURNAL OF CLEANER PRODUCTION, Journal Indexed in SCI-E, January 2023  
GEOSCIENCE FRONTIERS, Journal Indexed in SCI-E, December 2022  
EVALUATION REVIEW, Journal Indexed in SCI-E, December 2022  
ECONOMIC CHANGE AND RESTRUCTURING, Journal Indexed in SCI-E, December 2022  
JOURNAL OF INNOVATION & KNOWLEDGE, Journal Indexed in SCI-E, November 2022  
Sigma Journal of Engineering and Natural Sciences, Journal Indexed in ESCI, January 2021  
İLETİŞİM KURAM VE ARAŞTIRMA DERGİSİ, National Scientific Refreed Journal, December 2020  
ABANT İZZET BAYSAL ÜNİVERSİTESİ SOSYAL BİLİMLER ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, August 2018  
Journal of Engineering Technology and Applied Sciences, Other Indexed Journal, June 2018  
EURASIA Journal of Mathematics, Science and Technology Education, Journal Indexed in SSCI, April 2018  
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## Metrics

Publication: 134  
Citation (WoS): 111  
Citation (Scopus): 219  
H-Index (WoS): 7  
H-Index (Scopus): 11

## **Research Areas**

Social Sciences and Humanities, Statistics, Statistical Analysis and Applications