# Res. Asst. PhD EMRE KOÇAK

## Personal Information

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**International Researcher IDs**
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Publons / Web Of Science ResearcherID: ABE-7683-2021
ScopusID: 57410166300
Yoksis Researcher ID: 267764

## Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, İstatistik (Dr), Turkey 2020 - 2024
Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, İstatistik (Yl) (Tezli), Turkey 2017
- 2019
Undergraduate, Selcuk University, Faculty Of Scıence, Department Of Statıstıcs, Turkey
2012 - 2016

## Dissertations

Doctorate, Sınıflandırma Problemlerinde Özellik Seçimi için Geliştirilen Modifiye Edilmiş Parçacık Sürü Optimizasyonu
Algoritması, Gazi University, Fen Bilimleri Enstitüsü, 2024
Postgraduate, Türkiye'deki devlet üniversitelerinin performanslarının iki aşamalı veri zarflama analizi ile incelenmesi,
Gazi University, Fen Bilimleri Enstitüsü, 2019

## Research Areas

Statistics, Statistical Analysis and Applications

## Academic Titles / Tasks

Research Assistant, Gazi University, Fen Fakültesi, İstatistik, 2017 - Continues

## Courses

Olasılık ve İstatistik, Undergraduate, 2024 - 2025
Diş Hekimliği İçin İstatistik Uygulamaları, Undergraduate, 2024 - 2025
Elektronik Tablolar, Undergraduate, 2024 - 2025

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

I.  **Particle swarm optimization based feature selection using factorial design**
    Koçak E., Örkcü H. H.
    HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.53, no.3, pp.879-896, 2024 (SCI-Expanded)

II. **Towards net zero emissions target: Energy modelling of the transport sector in Turkiye**
    Dönmezçelik O., KOÇAK E., ÖRKCÜ H. H.
    ENERGY, vol.279, 2023 (SCI-Expanded)

III. **A multi-objective programming approach to Weibull parameter estimation**
    KOÇAK E., DEMİR YURTSEVEN E., ÖRKCÜ H. H.
    HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.51, no.2, pp.543-558, 2022 (SCI-Expanded)

IV. **A multi-objective programming-based approach to material life prediction: Weibull distribution application**
    KOÇAK E., ÖRKCÜ H. H.
    JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.37, no.4, pp.1783-1792, 2022 (SCI-Expanded)

## Articles Published in Other Journals

I.  **Modeling of wind speed using differential evolution: Istanbul case**
    Koçak E., Özsoy V. S., Örkcü H. H.
    SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.42, no.3, pp.642-652, 2024 (ESCI)

II. **The parameter estimation of the COVID-19 death based on the Gumbel distribution through the multi-objective programming: Turkey case**
    Demir Yurtseven E., Koçak E., Örkcü H. H.
    GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.37, no.4, pp.1, 2024 (ESCI)

III. **Influence of Finishing Procedures on Surface Roughness and Biaxial Flexural Strength of High-translucent 4Y-PSZ, 5Y-PSZ, and 6Y-PSZ Monolithic Zirconia**
    Doğru G., Demiralp E., Koçak E., Örkcü H. H., Aydın P. D. C., Yılmaz H.
    CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, no.1, pp.166-175, 2023 (ESCI)

IV. **Energy Modeling of T?rkiye Road and Rail Transport Towards Net Zero Emissions Target (2025-2050)**
    Dönmezçelik O., Koçak E., Örkcü H. H.
    JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, 2023 (ESCI)

V.  **Measuring the Efficiency of Turkish State Universities Based on a Two-Stage DEA Model**
    KOÇAK E., ÖRKCÜ H. H.
    GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.34, no.4, pp.1210-1220, 2021 (ESCI)

VI. **Parametre Tahmininde Farklı Doğrusal Programlama Modellerinin Karşılaştırılması**
    Koçak E., Örkcü H. H.
    Gazi Üniversitesi Fen Fakültesi Dergisi (GÜFFD), vol.1, pp.22-35, 2020 (Peer-Reviewed Journal)

## Books & Book Chapters

I.  **Yapay Zeka Temelli Optimizasyon Matlab ve Python Uygulamalarıyla**
    Örkcü H. H., Özsoy V. S., Koçak E.
    Seçkin Yayıncılık, Ankara, 2024

II. **Yöneylem Araştırması**
    Örkcü H. H., Özsoy V. S., Koçak E.

Seçkin Yayıncılık San. ve Tic. A.Ş., Ankara, 2024

III. **Türkiye'de Bulunan Havalimanı Performanslarının İki Aşamalı Veri Zarflama Analizi İle İncelenmesi**
ÖRKCÜ H. H., KOÇAK E.
in: Verimlilik Ölçümünde Güncel Yaklaşımlar, Koçak Deniz, Editor, Adalet Yayınevi, Ankara, pp.63-73, 2021

## Refereed Congress / Symposium Publications in Proceedings

I. **Havalimanları Performanslarının Malmquist Endeksi İle İncelenmesi**
TÜZÜNER Z., KOÇAK E., BAL H.
3.Uluslararası Akademik Öğrenci Çalışmaları Kongresi, 14 - 15 November 2019

II. **KABA DOĞUM ORANLARI İÇİN MEKÂNSAL ANALİZ YÖNTEMLERİ**
KOÇAK E., TÜZÜNER Z., BAL H.
3. ULUSLARARASI AKADEMİK ÖGRENCI ÇALISMALARI KONGRESI, Ankara, Turkey, 14 - 15 November 2019

III. **Evaluating the Performance of State Universities in Turkey With Two-Stage Data Envelopment Analysis**
KOÇAK E., BAL H.
International Symposium on Academic Studies in Science, Engineering and Architecture Studies, Ankara, Turkey, 13 - 15 June 2019, pp.53-61

IV. **Comparison of DEA models for the performance evaluation of the world'xxs top D investing companies the Automobiles Parts Industry**
BAL H., ÖZSOY V. S., KOÇAK E.
IV. International Congress on Social and Economic Sciences, Budapest, Hungary, 26 - 30 November 2018, pp.20-25

V. **Evaluation of the Life Index Based on Data Envelopment Analysis: Quality of Life Indexes of Turkey**
ÖZSOY V. S., KOÇAK E.
10th International Statistics Congress, 6 - 08 December 2017, pp.126

VI. **SORTING OF DECISION MAKING UNITS USING MCDM THROUGH THE WEIGHTS OBTAINED WITH DEA**
KOÇAK E., TÜZÜNER Z.
10th International Statistics Congress, 6 - 08 December 2017

VII. **Efficiency And Spatial Regression Analysis Related To Illiteracy Rate**
TÜZÜNER Z., KOÇAK E.
10th International Statistics Congress, 6 - 08 December 2017

VIII. **The Health Performances of the Turkey Cities by the Mixed Integer DEA Models**
TÜZÜNER Z., ÖRKCÜ H. H., BAL H., ÖZSOY V. S., KOÇAK E.
10th International Statistics Congress, 6 - 08 December 2017, pp.130

IX. **SPATIAL INTERACTION ANALYSIS RELATED TO INSTITUTIONAL LITERACY RATE PERFORMANCE**
TÜZÜNER Z., KOÇAK E.
International Conference On Computational and Statistical Methods in Applied Sciences, 9 - 11 November 2017

X. **RANKING OF EFFICIENT DECISION MAKING UNITS USING TOPSIS VIA OBJECTIVE WEIGHTS**
KOÇAK E., BAL H.
International Conference on Computational and Statistical Methods in Applied Sciences, 9 - 11 November 2017

XI. **Measuring the Efficiency of OECD Countries In Terms Of Environmental Performance**
KOÇAK E., YAPICI PEHLİVAN N.
3rd International Researchers, Statisticians and Young Statisticians Congress, Konya, Turkey, 24 - 26 May 2017, pp.280

## Metrics

Publication: 24
Citation (WoS): 5

Citation (Scopus): 6
H-Index (WoS): 2
H-Index (Scopus): 2