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International Researcher IDs
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Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, İstatistik, Turkey 2011 - 2016
Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, İstatistik, Turkey 2008 - 2011
Undergraduate, Cukurova University, Fen-Edebiyat Fakültesi, İstatistik, Turkey 2004 - 2008

Dissertations

Doctorate, GENEL LİNEER İSTATİSTİKSEL MODELDE YANLI TAHMİN EDİCİLER VE TANILAMA METOTLARI, Cukurova University, Fen Bilimleri Enstitüsü, İstatistik, 2016
Postgraduate, DEĞİŞEN VARYANSLI VE OTOKORELASYONLU HATAYA SAHİP LİNEER REGRESYON MODELLERİNDE HATA YAPILARININ VE YANLI TAHMİN EDİCİLERİN İNCELENMESİ, Cukurova University, Fen Bilimleri Enstitüsü, İstatistik, 2011

Research Areas

Statistics, Statistical Analysis and Applications

Academic Titles / Tasks

Associate Professor, Canakkale Onsekiz Mart University, Fen Fakültesi, İstatistik, 2023 - Continues
Assistant Professor, Canakkale Onsekiz Mart University, Fen Fakültesi, İstatistik, 2019 - 2023
Research Assistant PhD, Canakkale Onsekiz Mart University, Fen Fakültesi, İstatistik, 2016 - 2019

Academic and Administrative Experience

Deputy Quality Coordinator, Canakkale Onsekiz Mart University, 2023 - Continues
Rektörlük Kalite Komisyonu Üyesi, Canakkale Onsekiz Mart University, 2023 - Continues

Courses

İstatistiksel Çıkarsama II, Undergraduate, 2022 - 2023
Zaman Serileri, Undergraduate, 2022 - 2023
Kategorik Veri Analizi, Undergraduate, 2022 - 2023
Lineer Cebir II, Undergraduate, 2020 - 2021
Nümerik Yöntemler, Undergraduate, 2020 - 2021
İstatistik ve Olasılık, Undergraduate, 2020 - 2021
İstatistik, Undergraduate, 2020 - 2021
Lineer Cebir I, Undergraduate, 2020 - 2021
İstatistik, Undergraduate, 2018 - 2019
Biyoistatistik, Postgraduate, 2018 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A new approach in modelling the circular data: circular ridge estimator**
SÖKÜT AÇAR T.
Journal of Statistical Computation and Simulation, vol.93, no.4, pp.671-683, 2023 (SCI-Expanded)
II. **Regression diagnostics methods for Liu estimator under the general linear regression model**
SÖKÜT AÇAR T., ÖZKALE ATICIOĞLU M. R.
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.49, no.3, pp.771-792, 2020 (SCI-Expanded)
III. **Influence measures based on confidence ellipsoids in general linear regression model with correlated regressors**
Acar T., ÖZKALE ATICIOĞLU M. R.
JOURNAL OF APPLIED STATISTICS, vol.43, no.15, pp.2791-2812, 2016 (SCI-Expanded)
IV. **Influence measures in ridge regression when the error terms follow an Ar(1) process**
SÖKÜT AÇAR T., ÖZKALE ATICIOĞLU M. R.
COMPUTATIONAL STATISTICS, vol.31, no.3, pp.879-898, 2016 (SCI-Expanded)
V. **Cross validation of ridge regression estimator in autocorrelated linear regression models**
Acar T., ÖZKALE ATICIOĞLU M. R.
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.86, no.12, pp.2429-2440, 2016 (SCI-Expanded)
VI. **Leverages and Influential Observations in a Regression Model with Autocorrelated Errors**
ÖZKALE ATICIOĞLU M. R., SÖKÜT AÇAR T.
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.44, no.11, pp.2267-2290, 2015 (SCI-Expanded)

Articles Published in Other Journals

I. **The influence of olive leaf extract on the activity of antioxidant enzymes in the Hemolymph of Galleria mellonella (L.) (Lepidoptera: Pyralidae)**
KAYA S., Türkdoğan S., SÖKÜT AÇAR T.
Journal of New Results in Science, vol.12, no.3, pp.188-200, 2023 (Peer-Reviewed Journal)
II. **Kibria-Lukman Estimator for General Linear Regression Model with AR(2) Errors: A Comparative Study with Monte Carlo Simulation**
Söküt Açar T.
Journal of New Theory, vol.41, pp.1-17, 2022 (Peer-Reviewed Journal)
III. **Identification of Leverage Points in Principal Component Regression and r —k Class Estimators with AR(1) Error Structure**
Söküt Açar T.

Journal of Advanced Research in Natural and Applied Sciences, vol.6, no.2, pp.353-363, 2020 (Peer-Reviewed Journal)

IV. **The determination of optimal cluster number by Silhouette index at clustering of the European Union member countries and candidate Turkey by waste indicators**
SÖKÜT AÇAR T., AYMAN ÖZ N.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.26, no.3, pp.481-487, 2020 (ESCI)

V. **A journey to children's perceptions on forest fire through drawings in Canakkale Province, Turkey: Exploring the needs for alternative educative approaches**
Söküt Açar T., Inalpulat M., Ayman Öz N., Genç L., Arslan H., Böbek Bağran A.
Applied Environmental Education and Communication, vol.18, pp.285-299, 2019 (Scopus)

VI. **Jeotermal Akışkanın Hidrokimyasal Karakterizasyonunun Belirlenmesi: Simav (Kütahya) Örneği**
ÇARDAK M., ŞANLIYÜKSEL YÜCEL D., AY M., SÖKÜT AÇAR T., EROL TINAZTEPE Ö.
ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.5, no.1, pp.1-15, 2019 (Peer-Reviewed Journal)

VII. **A journey to children's perceptions on forest fire through drawings in Canakkale Province, Turkey: Exploring the needs for alternative educative approaches**
Söküt Açar T., İnalpulat M., Ayman Öz N., Genç L., Arslan H., Bobek Bagran A.
Applied Environmental Education Communication, vol.18, no.4, pp.285-299, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

I. **APPLICATION OF RIDGE REGRESSION TO THE TÜRKİYE ECONOMIC FREEDOM INDEX**
Söküt Açar T.
in: ACADEMİC RESEARCH AND REVİEWS İN SCİENCE AND MATHEMATİCS, Prof. Hüsniye Sağlıker,Ph.D., Editor, Platanus Publishing, Ankara, pp.55-70, 2023

II. **The Effect of the Autocorrelation Coefficient on the Performance Metrics of a Regression Model with AR(1) Structure**
Söküt Açar T.
in: New Frontiers in Natural Science and Mathematics, Prof. Dr. Mehmet YILMAZ, Editor, Duvar , İzmir, pp.297-314, 2023

III. **STATISTICAL POWER ANALYSIS BASED ON ONE SAMPLE T-TEST WITH JAMOVI**
SÖKÜT AÇAR T.
in: International Research in Science and Mathematics, Filiz ÖZBAŞ GERÇEKER, Hasan AKGÜL, Hayri BABA, Editor, Serüven, İzmir, pp.27-46, 2022

Refereed Congress / Symposium Publications in Proceedings

I. **RIDGE REGRESSION IN MACHINE LEARNING AND AN APPLICATION**
Söküt Açar T.
3rd International Conference On Applied Sciences, Cape-Town, South Africa, 24 - 29 January 2023, pp.1

II. **Using Unsupervised and Supervised Machine Learning Algorithms to Evaluate Higher Education Institutions**
Söküt Açar T.
12th International Statistics Days Conference, İzmir, Turkey, 13 - 16 October 2022, pp.1

III. **Circular-Linear Ridge Regression Analysis**
SÖKÜT AÇAR T.
20. International Symposium on Econometrics, Operations and Statistics, Ankara, Turkey, 5 - 15 February 2020, pp.1-2

IV. **Regression diagnostics methods for Liu estimator under the general linear regression model**
SÖKÜT AÇAR T., ÖZKALE ATICIOĞLU M. R.
The International Conference on Trends and Perspectives in Linear Statistical Inference, LinStat'xx2018, 20 - 24 August 2018

V. **Influential Observations on the Confidence Ellipsoids of Generalized Least Squares and Ridge Regression Estimators**
SÖKÜT AÇAR T.
XVIII. International Symposium on Econometrics Opeartions Research and Statistics, Trabzon, Turkey, 5 - 07 October 2017, pp.1

VI. **ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ TERZİOĞLU KAMPÜSÜ ÖĞRENCİLERİNİN ENERJİ VE ÇEVRE KONUSUNDAKİ EĞİLİMLERİ**
ÖZÇELİK G., SÖKÜT AÇAR T., AYMAN ÖZ N.
Trakya Üniversiteler Birliği Lisansüstü Öğrenci Kongresi, Edirne, Turkey, 15 - 16 May 2017, pp.1

VII. **ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ TERZİOĞLU KAMPÜSÜ ÖĞRENCİLERİNİN ENERJİ VE ÇEVRE KONUSUNDAKİ EĞİLİMLERİ**
ÖZÇELİK G., SÖKÜT AÇAR T., AYMAN ÖZ N.
Trakya Üniversiteler Birliği Lisansüstü Öğrenci Kongresi, Edirne, Turkey, 15 - 16 May 2017, pp.1

VIII. **ASSESSING THE INFLUENTIAL OBSERVATIONS FOR LINEAR REGRESSION MODEL WITH SECOND-ORDER AUTOREGRESSIVE ERRORS**
SÖKÜT AÇAR T.
INTERNATIONAL CONFERENCE ON TRENDS AND PERSPECTIVES IN LINEAR STATISTICAL INFERENCE, İstanbul, Turkey, 22 - 25 August 2016, pp.19

IX. **OTOKORELASYONLU LİNEER REGRESYON MODELLERİNDE MODEL GEÇERLİLİĞİ İÇİN EN İYİ RİDGE YANLILIK PARAMETRESİNİN BELİRLENMESİ**
SÖKÜT AÇAR T.
9. Uluslararası İstatistik Kongresi, Antalya, Turkey, 28 October - 01 November 2015, pp.1-2

X. **Otokorelasyon ve Çoklu İç İlişki Varlığında Etkinlik Ölçümleri**
SÖKÜT AÇAR T., ÖZKALE M. R.
Uluslararası 8. İstatistik Kongresi, 27 - 30 October 2013, pp.29-30

XI. **OTOKORELASYON VE ÇOKLU İÇ İLİŞKİ VARLIĞINDA ETKİNLİK ÖLÇÜLERİ**
SÖKÜT AÇAR T.
8. Uluslararası İstatistik Kongresi, Antalya, Turkey, 27 - 30 October 2013, pp.29-30

XII. **Detection of Influential Observations in Linear Regression Model with Autoregressive Errors**
SÖKÜT AÇAR T., ÖZKALE M. R.
8th International Symposium of Statistics, 11 - 13 October 2012, pp.331-332

XIII. **DETECTION OF INFLUENTIAL OBSERVATIONS IN LINEAR REGRESSION MODELS WITH AUTOREGRESSIVE ERRORS**
SÖKÜT AÇAR T.
8th International Symposium of Statistics, Eskişehir, Turkey, 11 - 13 September 2012, pp.331-332

XIV. **Değişen varyanslı ve otokorelasyonlu hataya sahip lineer regresyon modellerinde yanlı tahmin edicilerin karşılaştırılması**
SÖKÜT AÇAR T.
Uluslararası 7. İstatistik Kongresi, Antalya, Turkey, 28 April - 01 May 2011, pp.60-61

Supported Projects

KAYA S., SÖKÜT AÇAR T., Project Supported by Higher Education Institutions, Pyrethrumun Model Organizma Galleria mellonella L toplam hemosit sayısı ve hemosit aracılı bağışıklık tepkileri üzerine etkisi, 2023 - Continues
Söküt Açar T., Ayman Öz N., Project Supported by Higher Education Institutions, Zaman Serisi Yöntemleri ile Hava Kirletici ve Meteorolojik Parametrelerin Öngörülmesi, Hava Kalitesinin Denetimli Makine Öğrenme Algoritmaları ile

Sınıflandırılması: Çanakkale Örneği, 2024 - 2024
Söküt Açar T., Project Supported by Higher Education Institutions, Dairesel Regresyon Modellemesinde Yeni Bir Yaklaşım Liu Tahmin Edici, 2023 - 2024
Everest T., Erenoğlu O., Söküt Açar T., Sungur A., Özcan H., TUBITAK Project, Ayvacık Volkanitleri (Bazalt, Andezit, İgnimbrit Ve Piroklastik) Üzerinde Oluşmuş Toprakların Kimyasal Ayrışma ile Profil Gelişim İndekslerinin Belirlenmesi, 2023 - 2024
SÖKÜT AÇAR T., ÖZKALE ATICIOĞLU M. R., Project Supported by Higher Education Institutions, Genel Lineer Regresyon Modelinde Liu ve İki Parametreli Liu-Ridge Tahmin Edicileri için Regresyon Tanılama Metotları, 2018 - 2019
ÇARDAK M., SÖKÜT AÇAR T., ŞANLIYÜKSEL D., KARACA Z., AY M., EROL Ö., Project Supported by Higher Education Institutions, Simav (Kütahya) Bölgesi jeotermal yüzey suyunda ve sedimentte ağır metal düzeyinin belirlenmesi ve izole edilen bakterilerde ağır metal dirençliliğinin araştırılması, 2014 - 2016

Scientific Refereeing

Nicel bilimler dergisi (Online), National Scientific Refreed Journal, December 2023
Environmental Education Research, Other Indexed Journal, May 2019
Applied Environmental Education & Communication, Other Indexed Journal, August 2018
PAJES, National Scientific Refreed Journal, April 2018
PAJES, National Scientific Refreed Journal, February 2018
Environmental Education Research, Other Indexed Journal, January 2018

Metrics

Publication: 31
Citation (WoS): 19
Citation (Scopus): 19
H-Index (WoS): 3
H-Index (Scopus): 3

Awards

SÖKÜT AÇAR T., Akademik Teşvik Ödeneği, 2017, ÇOMÜ, February 2017
SÖKÜT AÇAR T., Young Scientists Awards'16, International Conference on Trends and Perspectives in Linear Statistical Inference, August 2016
SÖKÜT AÇAR T., Akademik Teşvik Ödeneği, 2016, ÇOMU, February 2016
SÖKÜT AÇAR T., Genç Araştırmacı Yarışması, Türk İstatistik Derneği, April 2011