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Personal Information

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International Researcher IDs
ScholarID: MQDtS5kAAAAJ
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Publons / Web Of Science ResearcherID: V-3267-2017
ScopusID: 57194597283
Yoksis Researcher ID: 114206

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (Dr), Turkey 2013 - 2019
Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (Yl) (Tezli), Turkey 2009 - 2012
Undergraduate, Ankara University, Fen Fakültesi, İstatistik Bölümü, Turkey 2005 - 2009

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Tam ve sansürlü örneklem durumlarında bazı normal olmayan dağılımların parametrelerinin genetik algoritma yardımıyla tahmini, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (Dr), 2018
Postgraduate, Çapraz Geçişli tasarımlar ve uygulamaları, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (Yl) (Tezli), 2012

Research Areas

Statistics, Statistical Analysis and Applications

Academic Titles / Tasks

Assistant Professor, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2022 - Continues
Research Assistant PhD, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2018 - 2022
Research Assistant, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2011 - 2018

Courses

Araştırmacılar için İstatistik, Undergraduate, 2023 - 2024, 2022 - 2023
Özel Konu, Undergraduate, 2023 - 2024
Veri Analizi ve Yorumlama, Postgraduate, 2023 - 2024, 2022 - 2023
Probability and Statistics, Undergraduate, 2023 - 2024, 2022 - 2023
Veri Bilimine Giriş, Undergraduate, 2023 - 2024
Özel Konu, Undergraduate, 2023 - 2024
Probability and Statistics, Undergraduate, 2023 - 2024
Kuyruk Teorisi, Undergraduate, 2022 - 2023
Probability and Statistics, Undergraduate, 2023 - 2024
Probability and Statistics, Undergraduate, 2023 - 2024
Olasılık ve İstatistik, Undergraduate, 2023 - 2024
Üniversite Yaşamına Uyum, Undergraduate, 2019 - 2020

Jury Memberships

Doctorate, Doctorate, Ankara Üniversitesi, December, 2024

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A new approach using the genetic algorithm for parameter estimation in multiple linear regression with long-tailed symmetric distributed error terms: An application to the Covid-19 data**
YALÇINKAYA A., GEDİK BALAY İ., ŞENOĞLU B.
CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS, vol.216, 2021 (SCI-Expanded)

II. **Maximum likelihood and maximum product of spacings estimations for the parameters of skew-normal distribution under doubly type II censoring using genetic algorithm**
YALÇINKAYA A., YOLCU U., ŞENOĞLU B.
EXPERT SYSTEMS WITH APPLICATIONS, vol.168, 2021 (SCI-Expanded)

III. **On the robustness of an epsilon skew extension for Burr III distribution on the real line**
Cankaya M. N., YALÇINKAYA A., Altindag O., ARSLAN O.
COMPUTATIONAL STATISTICS, vol.34, no.3, pp.1247-1273, 2019 (SCI-Expanded)

IV. **Maximum likelihood estimation for the parameters of skew normal distribution using genetic algorithm**
YALÇINKAYA A., ŞENOĞLU B., YOLCU U.
SWARM AND EVOLUTIONARY COMPUTATION, vol.38, pp.127-138, 2018 (SCI-Expanded)

Articles Published in Other Journals

I. **ESTIMATING THE PARAMETERS OF GENERALIZED LOGISTIC DISTRIBUTION VIA GENETIC ALGORITHM BASED ON REDUCED SEARCH SPACE**
YALÇINKAYA A., Kılıç A., ŞENOĞLU B.
Journal of Mathematical Sciences (United States), 2024 (Scopus)

II. **STATISTICAL INFERENCE FOR THE BURR TYPE III DISTRIBUTION UNDER TYPE II CENSORED DATA**
Altindag O., Cankaya M. N., Yalcinkaya A., AYDOĞDU H.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.66, no.2, pp.297-310, 2017 (ESCI)

III. **Investigation for the Robustness of Significance Level When the Normality Assumption in Hypothesis Tests is Violated**
YALÇINKAYA A., ÇANKAYA M. N., Altindag O., TUAÇ Y.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.30, no.2, pp.247-259, 2017 (ESCI)

IV. **Interval Estimation for the Difference of Two Independent Nonnormal Population Variances**
AKYÜZ H. E., GAMGAM H., YALÇINKAYA A.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.30, no.3, pp.117-129, 2017 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. **A Comparative Study on Hyperparameters Optimization for Support Vector Machine and K-Nearest Neighbors**
Yalçınkaya A., Kaymaz Ö.
V. International Applied Statistics Congress (UYIK - 2024), İstanbul, Turkey, 21 - 23 May 2024, pp.132

II. **Investigating the Effectiveness of Mathematics Education in Computer Engineering and Software Engineering Programs, and Its Contributions to Education and Business Life**
Ceylan T., Yalçınkaya A.
V. International Applied Statistics Congress (UYIK - 2024), İstanbul, Turkey, 21 - 23 May 2024, pp.133

III. **Determination of Wind Speed Characteristics using Mixture Distributions**
AKGÜL F. G., YALÇINKAYA A., ŞENOĞLU B.
20th International Symposium on Econometrics, Operations Research and Statistics (EYI 2020), Ankara, Turkey, 12 - 14 February 2020

IV. **An Alternative Method to the Newton-Raphson:Genetic Algorithm**
YALÇINKAYA A., GÜVEN G., ŞAMKAR H., ŞENOĞLU B.
International Symposium on Academic Studies in Science Engineering and Architecture Studies, Ankara, Turkey, 15 - 17 November 2019

V. **Estimation Of Parameters Of Skew-t Distribution Under Progressive Censoring Via Maximum Likelihood Using Genetic Algorithm**
YALÇINKAYA A., YOLCU U., ŞENOĞLU B.
4th International Researchers, Statisticians And Young Statisticians Congress (IRSYSC 2018), İzmir, Turkey, 28 - 30 April 2018, pp.135

VI. **Maximum Likelihood Estimation Using Genetic Algorithm for the Parameters of Skew-t Distribution under Type II Censoring**
YALÇINKAYA A., YOLCU U., ŞENOĞLU B.
International 10th Statistics Congress (ISC2017 - İSTKON10), Ankara, Turkey, 6 - 08 December 2017

VII. **Some Properties of Epsilon Skew Burr III Distribution**
ÇANKAYA M. N., YALÇINKAYA A., ALTINDAĞ Ö., ARSLAN O.
International 10th Statistics Congress (ISC2017 - İSTKON10), Ankara, Turkey, 6 - 08 December 2017

VIII. **Maximum Likelihood Estimation for the Parameters of Skew-t Distribution using Genetic Algorithm**
YALÇINKAYA A., ŞENOĞLU B., YOLCU U.
3rd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2017), Konya, Turkey, 24 - 26 May 2017

IX. **Epsilon Skew Extension Of The Burr Type III Distribution**
YALÇINKAYA A., ÇANKAYA M. N., ALTINDAĞ Ö., ARSLAN O.
International Conference on Information Complexity and Statistical Modelling in High Dimensions with Applications(IC-SMHD 2016), Nevşehir, Turkey, 18 - 21 May 2016

X. **Maximum Likelihood Estimation For The Parameters Of Skew Normal Distribution Using Genetic Algorithm**
YALÇINKAYA A., ŞENOĞLU B., YOLCU U.
International Conference on Information Complexity and Statistical Modelling in High Dimensions with Applications(IC-SMHD 2016), Nevşehir, Turkey, 18 - 21 May 2016

XI. **A New Search Space For Genetic Algorithm**
YALÇINKAYA A., ŞENOĞLU B., YOLCU U.

International Conference on Information Complexity and Statistical Modelling in High Dimensions with Applications (IC-SMHD 2016), Nevşehir, Turkey, 18 - 21 May 2016

XII. **Maximum likelihood estimation with genetic algorithm for the parameters of skew normal distribution**
YALÇINKAYA A., ŞENOĞLU B., YOLCU U.
International conference on information complexity and statistical modeling in high dimensions with applications IC-SMHD-2016, 18 - 21 May 2016

XIII. **Parameter Estimation For The Burr Type III Distribution Under TypeII Censored Data**
ALTINDAĞ Ö., ÇANKAYA M. N., YALÇINKAYA A., AYDOĞDU H.
International Conference on Information Complexity and Statistical Modeling in High Dimensions with Applications, 18 - 21 May 2016

XIV. **Epsilon skew extension of the Burr III distribution**
YALÇINKAYA A., ÇANKAYA M. N., ALTINDAĞ Ö., ARSLAN O.
International conference on information complexity and statistical modelling in high dimensions with applications, 18 - 21 May 2016

XV. **An Estimation for Parameters and Volumes of Rdm in Sistematic Sampling**
ÇANKAYA M. N., YALÇINKAYA A., ALTINDAĞ Ö.
The 3rd International Conference on Complex Dynamical Systems Their Applications: New Mathematical Concepts and Applications in Life Sciences (CDSC2014), Ankara, Turkey, 24 - 26 November 2014

XVI. **Sistematic Sampling on R and R2: A Simulation**
ÇANKAYA M. N., YALÇINKAYA A., ALTINDAĞ Ö.
The 9th International Statistics Day Symposium (ISDS2014), Antalya, Turkey, 10 - 14 May 2014

XVII. **The Effect of Economic Variables in Turkey on Consumer Confidence Index**
GÜNAY F., YALÇINKAYA A.
Uluslararası 8. İstatistik Kongresi (İSTKON 8), Antalya, Turkey, 27 - 30 October 2013

XVIII. **Investigation for the Robustness of Significance Level When the Normality Assumption in Hypothesis Tests is Violated.**
ÇANKAYA M. N., YALÇINKAYA A., ALTINDAĞ Ö.
Uluslararası 8.İstatistik Kongresi (ISTKON 8), Antalya, Turkey, 27 - 30 October 2013

XIX. **Hipotez Testlerinde Normallik Varsayımı Bozulduğunda 1 Tip Hatanın Dayanıklılığının İncelenmesi**
YALÇINKAYA A., ÇANKAYA M. N., ALTINDAĞ Ö., TUAÇ Y.
8. Uluslararası İstatistik Kongresi, 27 - 30 October 2013

Scientific Refereeing

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, Journal Indexed in SCI-E, October 2024
Health Academy Kastamonu, Other Indexed Journal, July 2023
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, Other Indexed Journal, March 2023
JOURNAL OF APPLIED STATISTICS, Journal Indexed in SCI-E, January 2021
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, Journal Indexed in SCI-E, January 2021
JOURNAL OF APPLIED STATISTICS, Journal Indexed in SCI-E, January 2020
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, January 2019
Asian Journal of probability and Statistics, Other Indexed Journal, January 2019

Scientific Consultations

TÜBİTAK Bilim İnsanı Destek Programları Başkanlığı (BİDEB), Project Consultancy, Ankara University, Fen Fakültesi, İstatistik Bölümü, Turkey, 2023 - 2024

Tasks In Event Organizations

Yalçınkaya A., TÜRKŞEN Ö., International 16th Statistics Students Colloquia, Student Club and Community Activity, Ankara, Turkey, Nisan 2019

Yalçınkaya A., 10. International Statistics Congress (ISC2017), Scientific Congress, Ankara, Turkey, Aralık 2017

Metrics

Publication: 27
Citation (WoS): 51
Citation (Scopus): 56
H-Index (WoS): 4
H-Index (Scopus): 3

Scholarships

2211-A Yurtiçi Doktora Burs Programı, TUBITAK, 2013 - 2017