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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAI-2720-2021

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, İstatistik (Dr), Turkey 2012 - 2017

Postgraduate, Washington State University, COLLEGE OF ARTS AND SCIENCES, Statistics, United States Of America 2009 - 2011

Undergraduate, Karadeniz Technical University, Fen-Edebiyat Fakültesi, İstatistik Ve Bilgisayar Bilimleri Bölümü, Turkey 2003 - 2007

Research Areas

Statistics

Academic Titles / Tasks

Assistant Professor, Gazi University, Fen Fakültesi, İstatistik, 2020 - Continues

Research Assistant, Gazi University, Fen Fakültesi, İstatistik, 2011 - 2020

Research Assistant, Washington State University, Faculty of Science, Statistics, 2010 - 2011

Academic and Administrative Experience

Bölüm Kalite Komisyonu Üyesi, Gazi University, Fen Fakültesi, İstatistik, 2022 - Continues

Deputy Director of the Center, Gazi University, Rektörlük, Gazi Üniversitesi, 2020 - 2020

Ölçme Değerlendirme Birimi Sorumlusu, Gazi University, Rektörlük, Gazi Üniversitesi, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Analysis of correlated unit-Lindley data based on estimating equations**
Silva D. V. V., AKDUR H. T. K., Paula G. A. A.
STATISTICAL METHODS AND APPLICATIONS, vol.32, no.5, pp.1477-1508, 2023 (SCI-Expanded)
- II. **Comparison of non-parametric tests of ordered alternatives for repeated measures in randomized blocks**
AKDUR H. T. K.

COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.51, no.7, pp.4146-4158, 2022 (SCI-Expanded)

III. **GEE-based Bell model for longitudinal count outcomes**

AKDUR H. T. K.

COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.51, no.13, pp.4602-4616, 2022 (SCI-Expanded)

IV. **Unit-Lindley mixed-effect model for proportion data**

AKDUR H. T. K.

JOURNAL OF APPLIED STATISTICS, vol.48, no.13-15, pp.2389-2405, 2021 (SCI-Expanded)

V. **An adaptation of pseudo-score confidence interval method for linear mixed models**

AKDUR H. T. K., ÖZONUR D., BAYRAK H.

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.49, no.2, pp.902-913, 2020 (SCI-Expanded)

VI. **Comparisons of tests of distributional assumption in Poisson regression model**

ÖZONUR D., AKDUR H. T. K., BAYRAK H.

COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.46, no.8, pp.6197-6207, 2017 (SCI-Expanded)

Articles Published in Other Journals

I. **Investigation of Bell Regression Model as an Alternative to Poisson and Negative Binomial Regression Models: Determining the Factors Affecting Length of Staying Hospital with The Case of Turkey**

Kılıç D., AKDUR H. T. K., BAYRAK H.

Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.2, pp.1256-1265, 2023 (Peer-Reviewed Journal)

II. **Residual Diagnostic Methods for Bell-Type Count Models**

AKDUR H. T. K., Kiliç D., BAYRAK H.

Statistics in Biosciences, 2023 (ESCI)

III. **Sample Size Estimation of Nonparametric Tests with Ordered Alternatives for Longitudinal Data in Randomized Complete Block Designs**

BAHÇECİTAPAR M., AKDUR H. T. K.

Gazi University Journal of Science Part A: Engineering and Innovation, vol.9, no.4, pp.367-377, 2022 (Peer-Reviewed Journal)

IV. **Temel Bileşenler Analizi ve Yanıt Yüzey Yöntemi kullanılarak Gıda Sektöründe Çoklu Yanıtların Optimizasyonu.**

Özonur D., Kılıç D., Akdur H. T. K., Bayrak H.

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.2, pp.734-744, 2019 (Peer-Reviewed Journal)

V. **Comparison of Rank-Based Tests for Ordered Alternative Hypotheses in Randomized Complete Block Designs**

AKDUR H. T. K., ÖZONUR D., Gul H. H., BAYRAK H.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.32, no.2, pp.705-716, 2019 (ESCI)

VI. **Optimal Asymptotic tests for Nakagami Distribution**

ÖZONUR D., AKDUR H. T. K., BAYRAK H.

Süleyman Demirel University Journal of Natural and Applied Sciences, vol.22, pp.487-492, 2018 (Peer-Reviewed Journal)

VII. **A Modified Jonckheere Test Statistic for Ordered Alternatives in Repeated Measures Design**

AKDUR H. T. K., GÖKPINAR F., BAYRAK H., GÖKPINAR E.

SDÜ Fen Bilimleri Enstitüsü Dergisi, vol.20, no.3, pp.391-398, 2016 (Peer-Reviewed Journal)

VIII. **A Comparison of Confidence Interval Methods of Fixed Effect in Nested Error Regression Model**

AKDUR H. T. K., ÖZONUR D., BAYRAK H.

Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.20, no.2, pp.167-175, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **MODELING OF NUMBER OF TRAFFIC ACCIDENT IN ANKARA WITH REGRESSION AND DECISION TREE METHODS**
Sevimli M. B., Gürsel M. F., Kıran L., Şahin E., AKDUR H. T. K.
IV. International Science and Innovation Congress 2023, Ankara-Online, Turkey, 27 July 2023
- II. **Working covariance selection methods for Negative Binomial Marginal Model**
Akdur H. T. K.
3. Uluslararası Uygulamalı İstatistik kongresi (UYIK-2022), 22 - 24 June 2022, pp.261
- III. **COMPARISON OF ZERO INFLATED REGRESSION MODELS FOR APPLICATION TO E-COMMERCE DATA**
Kılıç D., Akdur H. T. K., Bayrak H.
8 th International conference on advances in statistics (ICAS), Girne, Cyprus (Kktc), 16 - 18 May 2022, pp.1-2
- IV. **Bell Marginal Models for Longitudinal Count Outcomes**
Akdur H. T. K.
6th INTERNATIONAL E – CONFERENCE ON ADVANCES IN STATISTICS , Ankara, Turkey, 16 - 18 October 2020, pp.31
- V. **Unit-Lindley Mixed-Effect Model for Ratio Data**
AKDUR H. T. K.
11th International Statistics Congress, Muğla, Turkey, 4 - 08 October 2019
- VI. **Comparison of Page-type Tests in Repeated Measures Designs**
AKDUR H. T. K.
International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 27 - 29 June 2018
- VII. **An application of Smooth Goodness of fit tests for Gamma Response Model**
ÖZONUR D., AKDUR H. T. K., BAYRAK H.
International conference on Mathematics and Mathematics Education (ICMME-2018), Ordu, Turkey, 27 - 29 June 2018, pp.759-760
- VIII. **Optimization of Multiple Responses using Principal Componenet Analysis and Response Surface Method for an Experimental Design**
Kılıç D., ÖZONUR D., AKDUR H. T. K., BAYRAK H.
4.İnternational Researchers,Statisticians and Young Statisticians, İzmir, Turkey, 28 - 30 April 2018, vol.1
- IX. **A Comparison of Page and Jonckheere Tests for Repeated Measures in Randomized Block Designs**
AKDUR H. T. K., ÖZONUR D., BAYRAK H.
4.international researchers,statiscians and young statisticians congress, 28 - 30 April 2018
- X. **A Comparison of Goodness of Fit Tests of Rayleigh Distribution Against Nakagami Distribution**
Özonur D., Akdur H. T. K., Bayrak H.
10. ISC 2017 International Statistics Congress, Ankara, Turkey, 6 - 08 December 2017, pp.107
- XI. **Covariance Patterns for Linear Mixed Models**
AKDUR H. T. K., ÖZONUR D., BAYRAK H.
19.Ulusal ve 2.Uluslararası Biyoistatistik Kongresi, Antalya, Turkey, 25 - 28 September 2017
- XII. **Rank-Based Nonparametric Tests for Ordered Alternatives with Randomized Complete Block Design**
AKDUR H. T. K., GÜL H. H., ÖZONUR D., BAYRAK H.
IRSYSC 2017 – 3RD INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, 24 - 26 May 2017
- XIII. **RANK BASED NONPARAMETRIC TESTS FOR ORDERED ALTERNATİVES WİTH RANDOMİZED COMPLETE BLOCK DESİGN**
AKDUR H. T. K., GÜL H. H., ÖZONUR D., BAYRAK H.
IRSYSC 2017, 24 - 26 May 2017
- XIV. **A New Confidence Interval Method for Linear Mixed Models**
AKDUR H. T. K., ÖZONUR D., BAYRAK H.
10th International Statistics Days Conference,Giresun, 7 - 09 October 2016
- XV. **Gamma Dağılımına Sahip Yanıt Değişkenli Model için Smooth Testler**

ÖZONUR D., AKDUR H. T. K., BAYRAK H.

EYİ 2016, 2 - 04 June 2016

XVI. GAMMA DAĞILIMINA SAHİP YANIT DEĞİŞKENLİ MODEL İÇİN SMOOTH TESTLER

ÖZONUR D., AKDUR H. T. K., BAYRAK H.

17th International Symposium on Econometrics, 2 - 04 June 2016

XVII. Gamma Dağılımına Sahip Yanıt Değişkenli Model İçin Smooth Testler

ÖZONUR D., AKDUR H. T. K., BAYRAK H.

17. Uluslararası Ekonometri, Yöneylem Araştırması ve İstatistik Sempozyumu, 2 - 04 June 2016

XVIII. Smooth Tests for Inverse Gaussian Response Model

ÖZONUR D., AKDUR H. T. K., BAYRAK H.

Second International Researchers, Statisticians, and Young Statisticians Congress (2nd IRSYSC-2016), 4 - 08 May 2016

XIX. Confidence Interval Methods for Fixed Effect Parameter of Random Intercept Model

AKDUR H. T. K., ÖZONUR D., BAYRAK H.

Second International Researchers-Statisticians and Young Statisticians Congress, 4 - 08 May 2016

XX. Smooth Tests for Inverse Gaussian Response Model

ÖZONUR D., AKDUR H. T. K., BAYRAK H.

Researchers-Statisticians and Young Statisticians Congress, 2016, Ankara, Turkey, 6 - 07 May 2016

XXI. Confidence Interval Methods for fixed effect parameter of random intercept model

AKDUR H. T. K., BAYRAK H., ÖZONUR D.

Researchers-Statisticians and Young Statisticians Congress, 2016, Ankara, Turkey, 4 - 06 May 2016

XXII. Confidence Interval Methods of Fixed Effects in Mixed Models A Comparison Study

AKDUR H. T. K., ÖZONUR D., BAYRAK H.

Joint Statistical MEetings, 8 - 13 August 2015

XXIII. A Comparison Study on Distributional Assumption Tests for Poisson Regression Model

ÖZONUR D., AKDUR H. T. K., BAYRAK H.

Joint Statistical Meetings, 8 - 13 August 2015

XXIV. Comparison of Goodness of Fit Tests for Poisson Regression Model

ÖZONUR D., AKDUR H. T. K., BAYRAK H.

16th International Symposium on Econometrics, Operations Research and Statistics, 11 - 15 May 2015

XXV. A Comparison of Confidence Interval Methods for Fixed Effects in Linear Mixed Models

AKDUR H. T. K., ÖZONUR D., BAYRAK H.

16th International Symposium on Econometrics, Operations Research and Statistics, 11 - 15 May 2015

XXVI. A Comparision of Confidence Interval Methods for Fixed Effects in Linear Mixed Models

AKDUR H. T. K., ÖZONUR D., BAYRAK H.

16. Uluslararası Ekonometri, Yöneylem Araştırması ve İstatistik Sempozyumu, Edirne, Turkey, 7 - 12 May 2015

XXVII. A Comparison of Two Distribution Free Test for Longitudinal Data of Randomized Blocks with a Prior Knowledge of Alternative Hypothesis

AKDUR H. T. K., GÖKPINAR F., BAYRAK H., ÖZONUR D.

3rd International Eurasian Conference on Mathematical Sciences and Applications, Vienna, Austria, 25 - 28 August 2014

XXVIII. Using Logistic Regression for analyzing epigenetic changes across some Tumor Supressor Genes for Liver Cancer and Effects of Sample Pooling on the dataset

AKDUR H. T. K.

8th International Statistics Day Symposium, 10 - 13 October 2012

Scientific Refereeing

JOURNAL OF APPLIED STATISTICS, SCI Journal, March 2022

JOURNAL OF APPLIED STATISTICS, SCI Journal, July 2021

Metrics

Publication: 42

Citation (WoS): 10

Citation (Scopus): 12

H-Index (WoS): 2

H-Index (Scopus): 2

Scholarships

2219- Post Doc, University of Calgary, TUBITAK, 2018 - 2018

Doktora Sırası Araştırma, University of Calgary, TUBITAK, 2015 - 2015

YLSY- University of Charlotte, Dil okulu- Washington State University, Master of Science in Statistics, Ministry of Education, 2008 - 2011