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International Researcher IDs

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Publons / Web Of Science ResearcherID: Q-3451-2016

ScopusID: 57191848445

Yoksis Researcher ID: 108288

Education Information

Undergraduate, Ankara University, Fen Fakültesi, Astronomi ve Uzay Bilimleri Bölümü, Turkey 2018 - Continues

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (YI) (Tezli), Turkey 2011 - 2014

Undergraduate, Hacettepe University, Fen Fakültesi, İstatistik Bölümü, Turkey 2006 - 2011

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Otoregresif hata terimli regresyon modellerinde robust parametre tahmini ve model seçimi, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (Dr), 2020

Postgraduate, Ar(1) hata terimli regresyon modellerinde çarpık dağılımlara dayalı parametre tahmini, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (YI) (Tezli), 2014

Research Areas

Statistical Analysis and Applications, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2022 - Continues

Research Assistant PhD, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2013 - 2022

Courses

Zaman Serileri Analizi, Undergraduate, 2013 - 2014
Regresyon Analizi, Undergraduate, 2013 - 2014
Deney Tasarımı Analizi, Undergraduate, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Molecular Alterations Associated with Histologically Overt Stromal Response in Patients with Prostate Cancer.**
Tuaç Y.
International journal of molecular sciences, vol.25, no.16, 2024 (SCI-Expanded)
- II. **Reliability and Validity of the Turkish Version of the Screening Index for Voice Disorder (SIVD-TR)**
Arslan-Sarmehmetoğlu E., Tuaç Y., Çınar R.
JOURNAL OF VOICE, vol.1, pp.1-9, 2024 (SCI-Expanded)
- III. **Histologically Overt Stromal Response and the Risk of Progression after Radical Prostatectomy for Prostate Cancer**
Sayan M., TUAÇ Y., Kucukcolak S., Rowan M. D., Pratt G. K., Aktan C., Tjio E., Akbulut D., Moningi S., Leeman J. E., et al.
Cancers, vol.16, no.10, 2024 (SCI-Expanded)
- IV. **Prognostic Significance of the Cribriform Pattern in Prostate Cancer: Clinical Outcomes and Genomic Alterations**
Sayan M., TUAÇ Y., Akgul M., Pratt G. K., Rowan M. D., Akbulut D., Kucukcolak S., Tjio E., Moningi S., Leeman J. E., et al.
CANCERS, vol.16, no.7, 2024 (SCI-Expanded)
- V. **Nonparametric tests in linear model with autoregressive errors**
Jureckova J., Arslan O., Güney Y., Picek J., Schindler M., Tuaç Y.
METRIKA, vol.86, no.4, pp.443-453, 2023 (SCI-Expanded)
- VI. **Empirical likelihood estimation for linear regression models with AR(p) error terms with numerical examples**
Özdemir Ş., Güney Y., Tuaç Y., Arslan O.
JOURNAL OF APPLIED STATISTICS, vol.49, no.9, pp.2271-2286, 2022 (SCI-Expanded)
- VII. **OPTIMAL B-ROBUST ESTIMATION FOR THE PARAMETERS OF THE MARSHALL-OLKIN EXTENDED BURR XII DISTRIBUTION WITH AN APPLICATION TO PHARMACOKINETICS**
GÜNEY Y., ÖZDEMİR Ş., TUAÇ Y., Arslan O. A.
REVSTAT-STATISTICAL JOURNAL, vol.19, no.3, pp.421-442, 2021 (SCI-Expanded)
- VIII. **Robust estimation and variable selection in heteroscedastic regression model using least favorable distribution**
GÜNEY Y., TUAÇ Y., ÖZDEMİR Ş., ARSLAN O.
COMPUTATIONAL STATISTICS, vol.36, no.2, pp.805-827, 2021 (SCI-Expanded)
- IX. **Conditional maximum Lq-likelihood estimation for regression model with autoregressive error terms**
GÜNEY Y., Tuac Y., Ozdemir S., ARSLAN O.
Metrika, vol.84, no.1, pp.47-74, 2021 (SCI-Expanded)
- X. **Parameter estimation of regression model with AR(p) error terms based on skew distributions with EM algorithm**
Tuac Y., GÜNEY Y., ARSLAN O.
Soft Computing, vol.24, no.5, pp.3309-3330, 2020 (SCI-Expanded)
- XI. **Validating the Turkish version of the Weinstein noise sensitivity scale: effects of age, sex, and education level**
KESKİN YILDIZ M., KEMALOĞLU Y. K., TUAÇ Y., Mengu G., KARAMERT R., GÖKDOĞAN Ç.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.50, no.4, pp.894-901, 2020 (SCI-Expanded)
- XII. **Robust parameter estimation of regression model with AR(p) error terms**
Tuac Y., GÜNEY Y., ŞENOĞLU B., ARSLAN O.

Communications in Statistics: Simulation and Computation, vol.47, no.8, pp.2343-2359, 2018 (SCI-Expanded)

XIII. **Marshall-Olkin distribution: parameter estimation and application to cancer data**

GÜNEY Y., TUAÇ Y., ARSLAN O.

JOURNAL OF APPLIED STATISTICS, vol.44, no.12, pp.2238-2250, 2017 (SCI-Expanded)

Articles Published in Other Journals

I. **Prostate Cancer Awareness in the Middle East: A Cross-Sectional International Study**

Sayan M., Eren A. A., TUAÇ Y., Langoe A., Alali B., AYNACI Ö., Mohammadipour S., Vahedi F., Daneshmand B., Abbas W., et al.

JCO global oncology, vol.10, 2024 (ESCI)

II. **An analysis to identify the structural breaks of Covid-19 in Turkey**

GÜNEY Y., TUAÇ Y., ÖZDEMİR Ş., GÖKALP YAVUZ F., ARSLAN O.

JOURNAL OF STATISTICS AND MANAGEMENT SYSTEMS, vol.25, no.8, pp.1971-1989, 2022 (ESCI)

III. **The Clustering Structure of the COVID-19 Outbreak in Global Scale**

GÖKALP YAVUZ F., GÜNEY Y., ÖZDEMİR Ş., TUAÇ Y., ARSLAN O.

ADVANCES IN DATA SCIENCE AND ADAPTIVE ANALYSIS, vol.14, no.01N02, 2022 (ESCI)

IV. **MAXIMUM LQ-LIKELIHOOD ESTIMATION FOR THE PARAMETERS OF MARSHALL-OLKIN EXTENDED BURR XII DISTRIBUTION**

ÖZDEMİR Ş., GÜNEY Y., TUAÇ Y., ARSLAN O.

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.1, pp.17-34, 2019 (ESCI)

V. **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)

Refereed Congress / Symposium Publications in Proceedings

I. **Variable Selection in Restricted Regression Models**

Tuaç Y., Arslan O.

"Olomoucian Days of Applied Mathematics 2023" (ODAM), Olomouc, Czech Republic, 12 - 14 June 2023, pp.73

II. **Robust estimation in sparse regression models with autoregressive error terms**

Tuaç Y., Arslan O.

International Conference on Robust Statistics (ICORS), Ontario, Canada, 5 - 08 July 2022, pp.81

III. **Clustering Countries with COVID19 Dataset**

GÖKALP YAVUZ F., GÜNEY Y., ÖZDEMİR Ş., TUAÇ Y., ARSLAN O.

6th International Medicine Health Sciences Congress(IMedHSC) 2020, 27 - 29 December 2020

IV. **Logistic Growth Modeling of the Turkish COVID-19 Data.**

Özdemir Ş., Güney Y., Tuaç Y., Gökalg Yavuz F., Arslan O.

III. International Conference on Covid-19 Studies, Ankara, Turkey, 25 - 27 December 2020, pp.1

V. **Modeling Turkish COVID-19 Data Using ARIMA Model**

Dalkılıç H., Köprü A. A., GÜNEY Y., TUAÇ Y., ÖZDEMİR Ş., GÖKALP YAVUZ F., ARSLAN O.

III. INTERNATIONAL CONFERENCE ON COVID-19 STUDIES, Ankara, Turkey, 25 - 27 December 2020, vol.1

VI. **Linear and Nonlinear Regression with Autoregressive Errors: Application to Covid-19 Contagion in Turkey**

Güney Y., Tuaç Y., Özdemir Ş., Arslan O., Gökalg Yavuz F.

6th International Medicine & Health Sciences Congress, Ankara, Turkey, 25 - 27 December 2020, pp.1

VII. **Robust estimation and variable selection in joint location and scale model using least favorable**

distribution.

GÜNEY Y., TUAÇ Y., ÖZDEMİR Ş., ARSLAN O.

23rd International Conference on Computational Statistics (COMPSTAT 2018), 28 - 31 August 2018

- VIII. **Robust estimation and variable selection for regression models using empirical likelihood and LASSO methods**
ÖZDEMİR Ş., GÜNEY Y., TUAÇ Y., ARSLAN O.
23rd International Conference on Computational Statistics (COMPSTAT 2018), 28 - 31 August 2018
- IX. **Vector autoregressive models with multivariate skew innovations**
TUAÇ Y., GÜNEY Y., ÖZDEMİR Ş., ARSLAN O.
23rd International Conference on Computational Statistics (COMPSTAT 2018), 28 - 31 August 2018
- X. **Parameter Estimation of The Autoregressive Models with Skew Distributed Innovations Using EM Algorithm.**
TUAÇ Y., ARSLAN O.
4th International Researchers, Statisticians and Young Statisticians Congress, 28 - 30 April 2018
- XI. **Robust variable selection in restricted linear regression model**
TOKA O., TUAÇ Y., ÇETİN M., ARSLAN O.
European Meeting of Statisticians, 24 - 28 July 2017
- XII. **Maximum Lq-likelihood estimation for autoregressive error term regression model**
GÜNEY Y., TUAÇ Y., ÖZDEMİR Ş., ARSLAN O.
31st EMS (The European Meeting of Statisticians), Helsinki, Finland, 24 - 28 July 2017
- XIII. **Empirical likelihood estimation for linear regression models with AR(p) error terms**
ÖZDEMİR Ş., GÜNEY Y., TUAÇ Y., ARSLAN O.
31st EMS (The European Meeting of Statisticians), Helsinki, Finland, 24 - 28 July 2017
- XIV. **Robust variable selection in an autoregressive error term regression model**
TUAÇ Y., GÜNEY Y., ÖZDEMİR Ş., ARSLAN O.
31st EMS (The European Meeting of Statisticians), Helsinki, Finland, 24 - 28 July 2017
- XV. **Optimal B-robust estimators for the parameters of the MOEBXII distribution**
GÜNEY Y., ÖZDEMİR Ş., TUAÇ Y., ARSLAN O.
3RD International Researchers, Statisticians and Young Statisticians Congress, Konya, Turkey, 24 - 26 May 2017
- XVI. **Maximum Lq-Likelihood Estimation for the Marshall-Olkin Extended Burr XII Distribution**
ÖZDEMİR Ş., TUAÇ Y., GÜNEY Y., ARSLAN O.
3RD International Researchers, Statisticians and Young Statisticians Congress, Konya, Turkey, 24 - 26 May 2017
- XVII. **Parameter estimation for skew normal distribution via the maximum Lq-likelihood estimation**
TUAÇ Y., GÜNEY Y., ÖZDEMİR Ş., ARSLAN O.
3RD International Researchers, Statisticians and Young Statisticians Congress, Konya, Turkey, 24 - 26 May 2017
- XVIII. **Variable selection in restricted linear models**
TUAÇ Y., ARSLAN O.
International conference on information complexity and statistical modelling in high dimensions with applications, 18 May - 21 June 2016
- XIX. **Indicators For Disaster Risk and Risk Management for Turkey**
ARSLAN O., TUAÇ Y.
World Humanitarian Summit, 23 - 24 May 2016
- XX. **Variable Selection in Restricted Linear Regression Models**
TUAÇ Y., ARSLAN O.
International Conference on Information Complexity and Statistical Modeling in High Dimensions with Applications, 18 - 21 May 2016
- XXI. **Variable Selection in Regression Models with AR p Error Terms Based on Skew Distributions**
TUAÇ Y., GÜNEY Y., ARSLAN O.
European Meeting of Statisticians (EMS 2015), Amsterdam, Netherlands, 6 - 10 July 2015
- XXII. **Robust Estimation for the Parameters of the Distributed Lag Models Based on Heavy Tailed Skew Distributions**

ÇANKAYA M. N., TUAÇ Y., ARSLAN O.

International Conference on Robust Statistics, 10 - 15 August 2014

XXIII. Robust Estimation for the Parameter of the Zipfian Distribution Properties and Applications

GÜNEY Y., TUAÇ Y., ARSLAN O.

International Conference on Robust Statistics ICORS, Halle/Saale, Germany, 10 - 15 August 2014

XXIV. Analysis of Regression Models with AR(1) Error Terms Based on Skew Distributions Parameter Estimation

TUAÇ Y., ARSLAN O.

International Conference on Robust Statistics, 10 - 14 May 2014

XXV. Marshall Olkin Distribution Parameter Estimation and Applications

GÜNEY Y., TUAÇ Y., ARSLAN O.

9th International Statistics Day Symposium ISDS' 2014, Antalya, Turkey, 10 - 14 May 2014

XXVI. 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

XXVII. Robust .estimators for the distributed lag model based on t and skew t distributions

TUAÇ Y., ARSLAN O., ÇANKAYA M. N.

Uluslararası 8. İstatistik Kongresi, 27 - 30 October 2013

XXVIII. Gecikmesi Dağıtılmış Modellerde Parametreler için Dayanıklı Tahmin Ediciler

ÇANKAYA M. N., ARSLAN O., TUAÇ Y.

GIS2013 Genç İstatistikçiler Sempozyumu, Turkey, 10 - 11 September 2013

XXIX. Effects of ARCH(1) Innovations on Cointegration Trace Test

FİRUZAN E., ÇOBAN B., TUAÇ Y.

8 th International Symposium of Statistics, 11 - 13 October 2012

Supported Projects

Arslan O., Güney Y., Gökalp Yavuz F., TUAÇ Y., Project Supported by Other Official Institutions, Afetlerin Ekonomik Etkilerinin (Endeks Bazlı) Modellenmesi (AFAD), 2020 - 2022

Arslan O., Güney Y., TUAÇ Y., Gökalp Yavuz F., Özdemir Ş., TUBITAK Project, COVID 19 Türkiye Verilerinin İstatistiksel Modellemesi ve Olası Risk İndeksinin Geliştirilmesi, 2020 - 2020

Arslan O., Güney Y., TUAÇ Y., Gökalp Yavuz F., Özdemir Ş., Project Supported by Higher Education Institutions, Statistical Modeling of Turkey COVID-19 Data, 2020 - 2020

Activities in Scientific Journals

CANCERS, Special Issue Editor, 2024 - Continues

Metrics

Publication: 47

Citation (WoS): 40

Citation (Scopus): 40

H-Index (WoS): 4

H-Index (Scopus): 4

Scholarships

2219-Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TÜBİTAK, 2023 - Continues
Erasmus Eğitim Hareketliliği, University, 2019 - 2020