

Assoc. Prof. MEHMET NİYAZI ÇANKAYA

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: S-3295-2019

Yoksis Researcher ID: 113890

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (Dr), Turkey 2010 - 2015

Postgraduate, Mugla Sitki Kocman University, Fen Bilimleri Enstitüsü, İstatistik (YI) (Tezli), Turkey 2007 - 2010

Undergraduate, Ege University, Fen Fakültesi, İstatistik Bölümü, Turkey 2000 - 2005

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Asimetrik etki fonksiyonlu M-tahmin edicileri: Özellikleri ve uygulamaları, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (Dr), 2015

Postgraduate, Uygulamaları ile stereolojik tahminleme ve çıkarım, Mugla Sitki Kocman University, Fen Bilimleri Enstitüsü, İstatistik (YI) (Tezli), 2010

Research Areas

Statistics

Academic Titles / Tasks

Usak University, UYGULAMALI BİLİMLER FAKÜLTESİ, ULUSLARARASI TİCARET VE FİNANSMAN BÖLÜMÜ , 2017 - Continues

Research Assistant, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2010 - Continues

Research Assistant, Usak University, Fen-Edebiyat Fakültesi, İstatistik Bölümü, 2012 - 2016

Research Assistant, Usak University, Fen-Edebiyat Fakültesi, İstatistik Bölümü, 2010 - 2010

Research Assistant, Mugla Sitki Kocman University, Fen Fakültesi, İstatistik Bölümü, 2007 - 2010

Courses

İstatistiki Kalite Kontrol ve Süreç Yönetimi, Undergraduate, 2021 - 2022
İstatistik I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Yönetim Bilişim Sistemleri, Undergraduate, 2020 - 2021
Mezuniyet Projesi, Undergraduate, 2020 - 2021, 2018 - 2019
İstatistik II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
İşletme Matematiği II, Undergraduate, 2020 - 2021
İstatistiksel Tahmin Teknikleri, Postgraduate, 2019 - 2020, 2018 - 2019
Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020
Seminer, Postgraduate, 2018 - 2019
Sosyal Sorumluluk ve Topluma Hizmet, Undergraduate, 2018 - 2019
Olasılık Teorisi, Postgraduate, 2018 - 2019
Ekonometrik Yazılımlar, Undergraduate, 2016 - 2017
Yöneylem Araştırması, Undergraduate, 2015 - 2016
Çok Değişkenli Kesikli Dağılımlar, Undergraduate, 2015 - 2016
İstatistik Teorisi II, Undergraduate, 2014 - 2015
C/Cplus Programlamaya Giriş, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013
Risk Analizi, Undergraduate, 2013 - 2014
İstatistik Teorisi I, Undergraduate, 2012 - 2013
Matematiksel İstatistik, Undergraduate, 2010 - 2011
SPSS ve MINITAB ile veri analizi, Undergraduate, 2008 - 2009

Advising Theses

MEHMET NİYAZİ Ç., Deforme edilmiş logaritmalar ile genelleştirilmiş ridge regresyon, Postgraduate,
M.GÖKTÜRK(Student), 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A general class of trimodal distributions: properties and inference**
Vila R., Serra V., ÇANKAYA M. N., Quintino F.
Journal of Applied Statistics, vol.51, no.8, pp.1446-1469, 2024 (SCI-Expanded)
- II. **A model for bimodal rates and proportions**
Vila R., Alfaia L., Menezes A. F., ÇANKAYA M. N., Bourguignon M.
Journal of Applied Statistics, vol.51, no.4, pp.664-681, 2024 (SCI-Expanded)
- III. **Maximum log q likelihood estimation for parameters of Weibull distribution and properties: Monte Carlo simulation**
ÇANKAYA M. N., Vila R.
Soft Computing, vol.27, no.11, pp.6903-6926, 2023 (SCI-Expanded)
- IV. **DERIVATIVES by RATIO PRINCIPLE for q-SETS on the TIME SCALE CALCULUS**
ÇANKAYA M. N.
Fractals, vol.29, no.8, 2021 (SCI-Expanded)
- V. **On the robustness properties for maximum likelihood estimators of parameters in exponential power and generalized T distributions**
ÇANKAYA M. N., ARSLAN O.
Communications in Statistics - Theory and Methods, vol.49, no.3, pp.607-630, 2020 (SCI-Expanded)
- VI. **On the robustness of an epsilon skew extension for Burr III distribution on the real line**
ÇANKAYA M. N., YALÇINKAYA A., ALTINDAĞ Ö., ARSLAN O.
Computational Statistics, vol.34, no.3, pp.1247-1273, 2019 (SCI-Expanded)
- VII. **Least informative distributions in maximum q-log-likelihood estimation**

ÇANKAYA M. N., Korbel J.

Physica A: Statistical Mechanics and its Applications, vol.509, pp.140-150, 2018 (SCI-Expanded)

VIII. **The informational entropy endowed in cortical oscillations**

Tozzi A., Peters J. F., ÇANKAYA M. N.

Cognitive Neurodynamics, vol.12, no.5, pp.501-507, 2018 (SCI-Expanded)

IX. **Asymmetric bimodal exponential power distribution on the real line**

ÇANKAYA M. N.

Entropy, vol.20, no.1, 2018 (SCI-Expanded)

X. **On statistical properties of Jizba–Arimitsu hybrid entropy**

ÇANKAYA M. N., Korbel J.

Physica A: Statistical Mechanics and its Applications, vol.475, pp.1-10, 2017 (SCI-Expanded)

XI. **Propositions for confidence interval in systematic sampling on real line**

ÇANKAYA M. N.

Entropy, vol.18, no.10, 2016 (SCI-Expanded)

Articles Published in Other Journals

I. **Tax Audit in Türkiye: Simulation and Estimations Based on Kernel and Weight Functions**

Çankaya M. N., Aydın M.

Chaos Theory and Applications, vol.6, no.4, pp.264-272, 2024 (Scopus)

II. **Assessing the Regulatory Impact of the Turkish Competition Authority on Market Dynamics: A Statistical Approach Using Kernel Estimation and its Simulation**

AYDIN M., ÇANKAYA M. N.

Mehmet Akif Ersoy Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.11, no.2, pp.837-853, 2024 (ESCI)

III. **Future Prediction for Tax Complaints to Turkish Ombudsman by Models from Polynomial Regression and Parametric Distribution**

Cankaya M. N., AYDIN M.

Chaos Theory and Applications, vol.6, no.1, pp.63-72, 2024 (Scopus)

IV. **M-Estimations of Shape and Scale Parameters by Order Statistics in Least Informative Distributions on q-deformed logarithm**

ÇANKAYA M. N.

İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, no.3, pp.1984-1996, 2020 (Peer-Reviewed Journal)

V. **On the Robust Estimations of Location and Scale Parameters for Least Informative Distributions**

ÇANKAYA M. N.

Turkish Journal of Science and Technology, vol.15, no.2, pp.71-78, 2020 (Peer-Reviewed Journal)

VI. **Investigation for the robustness of significance level when the normality assumption in hypothesis tests is violated**

YALÇINKAYA A., ÇANKAYA M. N., ALTINDAĞ Ö., TUAÇ Y.

Gazi University Journal of Science, vol.30, no.2, pp.247-259, 2017 (Scopus)

VII. **Statistical inference for the burr type III distribution under type II censored data**

ALTINDAĞ Ö., ÇANKAYA M. N., YALÇINKAYA A., AYDOĞDU H.

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.66, no.2, pp.297-310, 2017 (Peer-Reviewed Journal)

VIII. **A Bimodal Extension of the Generalized Gamma Distribution**

ÇANKAYA M. N., BULUT Y. M., DOĞRU F. Z., ARSLAN O.

REVISTA COLOMBIANA DE ESTADÍSTICA, vol.38, no.2, pp.353-370, 2015 (Scopus)

IX. **Zaman Skalasında Box-Cox Regresyon Yöntemi**

GÖKTAŞ A., İŞÇİ GÜNERİ Ö., atmaca s. p., ÇANKAYA M. N.

Dokuz Eylül Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.27, no.1, pp.55-70, 2012 (Peer-Reviewed Journal)

- X. **20 25 Yaş Arası Sağlıklı Gençlerde Gri ve Beyaz Cevher Hacimlerinin İncelenmesi Planimetrik Çalışma**
ACER N., ERTEKİN T., KÜÇÜK A., babaoğlu c., ÇANKAYA M. N., çamurdanoğlu m.
Kocatepe Tıp Dergisi, vol.9, no.2, pp.45-51, 2008 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **On the Statistical Properties of the Deformed Algebras on the Jackson q -Derivative**
ÇANKAYA M. N.
3rd International Conference on Mathematics and its Applications in Science and Engineering, ICMASE 2022,
Bucharest, Romania, 4 - 07 July 2022, vol.414, pp.249-261
- II. **Multicovariance and Multicorrelation for p -variables**
ÇANKAYA M. N.
3rd International Conference on Mathematics and its Applications in Science and Engineering, ICMASE 2022,
Bucharest, Romania, 4 - 07 July 2022, vol.414, pp.273-284
- III. **FORECAST OF THE ENERGY CONSUMPTION OF TURKIYE COMMERCE SECTOR: M-ESTIMATION MODEL APPLICATION**
ÇANKAYA M. N., ÖZEN E.
International Scientific-Practical Conference ECONOMIC GROWTH IN THE CONDITIONS OF GLOBALIZATION,
Kişinev, Moldova, 12 October 2022
- IV. **M-Tahminine Dayalı z -İstatistiğinin Karesinin q -Deforme Formu Üzerine**
ÇANKAYA M. N.
<http://www.ubaksymposium.org/>, Ankara, Turkey, 20 August 2022, vol.2, pp.122-129
- V. **Varyans Kovaryans Matrislerinin Kompleksliği Üzerine**
PAMUKÇU E., ÇANKAYA M. N.
ULUSLARARASI MATEMATİK İSTATİSTİK VE ANALİTİK YÖNTEMLER KONGRESİ, İstanbul, Turkey, 12 - 13 March
2020
- VI. **On the Variance of Systematic Sampling: A Simulation**
ÇANKAYA M. N.
INTERNATIONAL CONFERENCE ON MATHEMATICS“An Istanbul Meeting for World
Mathematicians”Minisymposium on Approximation Theory Minisymposium on Math Education, İstanbul, Turkey, 3
- 06 July 2018
- VII. **Rathie–Swamee Asymmetric Bimodal Distribution**
ÇANKAYA M. N.
INTERNATIONAL CONFERENCE ON MATHEMATICS“An Istanbul Meeting for World
Mathematicians”Minisymposium on ApproximationTheoryMinisymposium on Math Education3-6 July 2018,
Istanbul, Turkey, İstanbul, Turkey, 3 - 06 July 2018
- VIII. **M-Estimation of Parameters for Distributed Lag Models in Regression**
ÇANKAYA M. N.
INTERNATIONAL CONFERENCE ON MATHEMATICAL ADVANCES AND ITS APPLICATIONS-ICOMAA-2018, İstanbul,
Turkey, 11 - 13 May 2018
- IX. **Maximum Likelihood Estimations of Parameters in Distributions**
ÇANKAYA M. N.
INTERNATIONAL CONFERENCE ON MATHEMATICAL ADVANCES AND ITS APPLICATIONS-ICOMAA-2018, İstanbul,
Turkey, 11 - 13 May 2018
- X. **MAXIMUM ENTROPY DISTRIBUTIONS BASED ON FRACTIONAL CALCULUS**
ÇANKAYA M. N.
4th INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, İzmir, Turkey, 28 -
30 April 2018
- XI. **UNIBIMODAL ASYMMETRIC DISTRIBUTIONS**
ÇANKAYA M. N.

4th INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, İzmir, Turkey, 28 - 30 April 2018

- XII. **Robustness Properties for Maximum Likelihood Estimators of Parameters in Exponential Power and Generalized t Distributions**
ÇANKAYA M. N., ARSLAN O.
International 10th Statistics Congress (ISC2017 - ISTKON10), 6 - 08 December 2017
- XIII. **Some Properties of Epsilon Skew Burr III Distribution**
ÇANKAYA M. N., YALÇINKAYA A., ALTINDAĞ Ö., ARSLAN O.
International 10th Statistics Congress (ISC2017 - ISTKON10), 6 - 08 December 2017
- XIV. **General Class of Asymmetric Bimodal Distributions**
ÇANKAYA M. N., PAMUKÇU E.
COSTAS 2017, 9 - 11 November 2017
- XV. **Model Selection in Hybrid Regression Model Using Genetic Algorithm and Information Complexity as a fitness function**
PAMUKÇU E., ÇANKAYA M. N., koç e. k.
COSTAS 2017, 9 - 11 November 2017
- XVI. **General Class of Asymmetric Bimodal Disrtributions**
ÇANKAYA M. N., PAMUKÇU E.
International Conference onComputational and Statistical Methods in Applied SciencesCOSTAS 2017, 9 - 11 November 2017
- XVII. **Condifence Interval of Systematic Samplings on Real Line and Circular**
ÇANKAYA M. N.
COSTAS 2017, 9 - 11 November 2017
- XVIII. **On Goodness of fitness: Hybrid entropy**
ÇANKAYA M. N., Korbel J.
3rd INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, Konya, Turkey, 24 - 26 May 2017
- XIX. **On Evaluation of Divergences for Heavy Tailed Distributions**
ÇANKAYA M. N., PAMUKÇU E.
3rd INTERNATIONAL RESEARCHERS,STATISTICIANS ANDYOUNG STATISTICIANS CONGRESS, 24 - 26 May 2017
- XX. **Least Informative Distributions Based on Divergences**
ÇANKAYA M. N., Baleanu D.
INTERNATIONAL WORKSHOP ON MATHEMATICAL METHODS IN ENGINEERING, Turkey, 27 - 29 April 2017
- XXI. **Application of Fuzzy Fractional Derivatives in Statistics**
ÇANKAYA M. N., Baleanu D., Wu G.
INTERNATIONAL WORKSHOP ON MATHEMATICAL METHODS IN ENGINEERING, Turkey, 27 - 29 April 2017
- XXII. **Composite Type Likelihood Inference for Location and Scale Parameters**
ÇANKAYA M. N.
INTERNATIONAL WORKSHOP ON MATHEMATICAL METHODS IN ENGINEERING, 27 - 29 April 2017
- XXIII. **Applications of Fractional Entropies on Image Analysis**
ÇANKAYA M. N., Wu G., Baleanu D.
INTERNATIONAL WORKSHOP ON MATHEMATICAL METHODS IN ENGINEERING, 27 - 29 April 2017
- XXIV. **On the Inference of Location and Scale Model in Estimating Functions**
ÇANKAYA M. N., Baleanu D., Wu G.
INTERNATIONAL WORKSHOP ON MATHEMATICAL METHODS IN ENGINEERING, Ankara, Turkey, 27 - 29 April 2017
- XXV. **Computational Evaluation and Robust Goodness of Fit Test for Optimal Score Functions**
ÇANKAYA M. N.
Xth International Statistics Days Conference, 2016, Giresun, Turkey, Giresun, Turkey, 7 - 09 October 2016
- XXVI. **A New Variance Estimates for the Systematic Sampling on R**
ÇANKAYA M. N.

- Xth International Statistics Days Conference, 2016, Giresun, Turkey, Giresun, Turkey, 7 - 09 October 2016
- XXVII. **Generalized Bimodal Gamma Distribution on R**
ÇANKAYA M. N.
INTERNATIONAL CONFERENCE onTRENDS and PERSPECTIVES in LINEAR STATISTICAL INFERENCE, İstanbul, Turkey, 22 - 25 August 2016
- XXVIII. **Fractional Derivatives An Application for Score Functions**
ÇANKAYA M. N., Baleanu D.
International Conference onApplied Mathematics and Analysis, Ankara, Turkey, 11 - 13 July 2016
- XXIX. **On the Generalized Maximum Likelihood Score Functions and their Application on Bimodality**
ÇANKAYA M. N.
2ndInternational Conference on Pure Applied Science, İstanbul, Turkey, 1 - 05 June 2016
- XXX. **On The Estimating Parameters Of Arbitrary Planes In Systematic Sampling**
ÇANKAYA M. N.
2ndInternational Conference on Pure Applied Science, İstanbul, Turkey, 1 - 05 June 2016
- XXXI. **A New Entropy Based on Tempered Fractional Calculus**
ÇANKAYA M. N., Baleanu D.
International Conference on Quantum Science and Applications, Eskişehir, Turkey, 24 - 28 May 2016
- XXXII. **On Statistical Properties of Hybrid Entropy**
Korbel J., ÇANKAYA M. N.
International Conference on Quantum Science and Applications(ICQSA-2016), Eskişehir, Turkey, 24 - 28 May 2016
- XXXIII. **PARAMETER ESTIMATION FOR THE BURR TYPE III DISTRIBUTION UNDER TYPE II CENSORED DATA**
ALTINDAĞ Ö., ÇANKAYA M. N., YALÇINKAYA A., AYDOĞDU H.
International Conference on Information Complexity and Statistical Modeling in High Dimensions with Applications, Nevşehir, Turkey, 18 - 21 May 2016
- XXXIV. **EPSILON SKEW EXTENSION OF THE BURRIII DISTRIBUTION**
YALÇINKAYA A., ÇANKAYA M. N., ALTINDAĞ Ö., ARSLAN O.
International Conference on Information Complexity and Statistical Modeling in High Dimensions with Applications, Nevşehir, Turkey, 18 - 21 May 2016
- XXXV. **M estimation Method Based Asymmetric Objective Function**
ÇANKAYA M. N., ARSLAN O.
International Conference on Information Complexity and Statistical Modeling in High Dimensions with Applications, Nevşehir, Turkey, 18 - 21 May 2016
- XXXVI. **Optimal Score Functions of Power Distributions**
ÇANKAYA M. N., ARSLAN O.
International Conference on Information Complexity and Statistical Modeling in High Dimensions with Applications, Nevşehir, Turkey, 18 - 21 May 2016
- XXXVII. **An Estimation for Parameters and Volumes of Rdm in Systematic Sampling**
ÇANKAYA M. N., YALÇINKAYA A., ALTINDAĞ Ö.
The 3rd International Conference onComplex Dynamical Systemsand their applications, Ankara, Turkey, 24 - 26 November 2014
- XXXVIII. **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 ICORS2014, Germany, 10 - 15 August 2014
- XXXIX. **Systematic Sampling on R and R2 A Simulation**
ÇANKAYA M. N., YALÇINKAYA A., ALTINDAĞ Ö.
International Statistics Days 2014, Antalya, Turkey, 10 - 14 May 2014
- XL. **Hipotez Testlerinde Normallik Varsayımı Bozulduğunda 1 Tip Hatanın Dayanıklılığının İncelenmesi**
YALÇINKAYA A., ÇANKAYA M. N., ALTINDAĞ Ö., TUAÇ Y.
8. Uluslararası İstatistik Kongresi, Antalya, Turkey, 27 - 30 October 2013
- XLI. **Robust Estimators for the Distributed Lag Model Based on t and Skew t Distribution**

- TUAÇ Y., ARSLAN O., ÇANKAYA M. N.
8. Uluslararası İstatistik Kongresi, Antalya, Turkey, 27 - 30 October 2013, pp.159-160
- XLII. **Gecikmesi Dağıtılmış Modellerde Parametreler için Dayanıklı Tahmin Ediciler**
ÇANKAYA M. N., ARSLAN O., TUAÇ Y.
GIS2013 Genç İstatistikçiler Sempozyumu, Ankara, Turkey, 10 - 11 September 2013
- XLIII. **A proposition for confidence interval in systematic sampling on R**
ÇANKAYA M. N.
8th World Congress in Probability and Statistics, İstanbul, Turkey, 9 - 14 July 2012, vol.1
- XLIV. **The effect of sampling in a section thickness on the estimation of cerebral volume by the Cavalieri principle using MRI**
ÇANKAYA M. N., ACER N., GÖKTAŞ A., çamurdanoğlu m., palancı ö.
The 10th European Congress of ISS on Stereology and Image Analysis, Italy, 22 - 26 June 2009
- XLV. **A Comparison of Gold Standard and Stereological Method in Volume Estimation on MRI**
ACER N., GÖKTAŞ A., ÇANKAYA M. N., İŞÇİ GÜNERİ Ö., ERGÜR H.
Fifth Conference of the Eastern Mediterranean Region of the International Biometric Society, İstanbul, Turkey, 10 - 14 May 2009
- XLVI. **Türkiye’de işsizlik oranlarının temel bileşenli regresyon analizi ile belirlenmesi**
İŞÇİ GÜNERİ Ö., GÖKTAŞ A., ÇANKAYA M. N.
6. İstatistik Kongresi, Antalya, Turkey, 29 April - 03 May 2009, vol.1, pp.452-457
- XLVII. **Serebral Hacim Tahminlemede İki Yöntemin Karşılaştırılması: Planimetrik ve Nokta Sayımı Yaklaşımları**
ACER N., ÇANKAYA M. N., İŞÇİ GÜNERİ Ö.
8. Ulusal Sınır Bilimleri Kongresi, Bolu, Turkey, 18 April 2009, vol.15, pp.142
- XLVIII. **MRI kullanılarak beyin hacmi ve yüzey alanının Cavalieri prensibine göre tarafsız olarak hesaplanması**
ACER N., ÇANKAYA M. N., İŞÇİ GÜNERİ Ö., USANMAZ M.
XI. Ulusal Anatomi Kongresi, Mersin, Turkey, 01 October 2008
- XLIX. **Türkiye’de enflasyon oranının temel bileşenli lp norm yöntemi ile tahmini**
İŞÇİ GÜNERİ Ö., GÖKTAŞ A., ÇANKAYA M. N.
9th Econometrics and Statistics Symposium, Aydın, Turkey, 28 May 2008
- L. **Türkiye’de işsizlik oranının temel bileşenli regresyon analizi ile belirlenmesi**
GÖKTAŞ A., İŞÇİ GÜNERİ Ö., ÇANKAYA M. N.
9th Econometrics and Statistics Symposium, Aydın, Turkey, 28 May 2008
- LI. **Zaman Skalasında En Küçük Kareler Yöntemi**
Atmaca M., İŞÇİ GÜNERİ Ö., ÇANKAYA M. N.
XX. Ulusal Matematik Sempozyumu, Erzurum, Turkey, 3 - 06 September 2007, vol.1, pp.149

Metrics

Publication: 72

Citation (Scopus): 57

H-Index (Scopus): 5