Assoc. Prof. SİBEL AÇIK KEMALOĞLU

Personal Information

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International Researcher IDs
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Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (Dr), Turkey 2001 - 2007
Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (Yl) (Tezli), Turkey 1999 - 2001
Undergraduate, Ankara University, Fen Fakültesi, İstatistik Bölümü, Turkey 1995 - 1999

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Occupational Health and Safety, İş Sağlığı ve Güvenliği, Ankara Üniversitesi, 2022

Dissertations

Doctorate, İlerleyen tür sansürleme altında bazı genelleştirilmiş modeller için çıkarsama ve risk analizi uygulamaları, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (Dr), 2007
Postgraduate, Rekor değerlere dayalı risk analizi üzerine bir çalışma, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (Yl) (Tezli), 2001

Research Areas

Statistics, Statistical Analysis and Applications

Academic Titles / Tasks

Assistant Professor, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2017 - Continues
Lecturer, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2007 - 2017
Research Assistant, Ankara University, Fen Fakültesi, İstatistik Bölümü, 1999 - 2007

Academic and Administrative Experience

Farabi Program Institutional Coordinator, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2022 - Continues
Unit Accreditation Board Member, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2022 - Continues
Bölüm Kalite Komisyonu Üyesi, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2022 - Continues
Head of Department, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2020 - Continues
Deputy Head of Department, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2017 - Continues
Eğitim öğretim komisyon üyeliği, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2022 - 2023

Courses

RİSK YÖNETİMİ, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
FİNANSAL RİSK ANALİZİ, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
RİSK TEORİSİ VE METOTLARI, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Temel İstatistik, Undergraduate, 2023 - 2024
NÜFUSBİLİM, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
AKTÜERYAL RİSK ANALİZİ, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
OLASILIK VE İSTATİSTİK, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009
RİSK ANALİZİ, Undergraduate, 2016 - 2017, 2015 - 2016, 2009 - 2010, 2008 - 2009
FİNANSAL RİSK YÖNETİMİ, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
BİYOİSTATİSTİK, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2009 - 2010, 2008 - 2009
Probabilty and Statistics, Undergraduate, 2014 - 2015
İstatistik I, Undergraduate, 2009 - 2010

Advising Theses

Açık Kemaloğlu S., Küresel Borsa Endeksleri ile Döviz Kurları Arasındaki Bağımlılığın Kopula Yaklaşımıyla İncelenmesi, Postgraduate, C.Mert(Student), Continues
Açık Kemaloğlu S., Türkiye Elektrik Piyasa Fiyatlarının Makine Öğrenmesi Yöntemleri ile Analizi, Postgraduate, İ.Ceren(Student), Continues
Açık Kemaloğlu S., Enerji fiyatları ve tarım ürünleri fiyatları arasındaki bağımlılık ilişkisinin kapula yöntemi ile araştırılması, Postgraduate, Y.YILDIRIM(Student), 2022
Açık Kemaloğlu S., Türk hava sahasındaki sivil hava trafik yoğunluğunun zaman serileri ve yapay sinir ağları ile analizi, Postgraduate, N.GÜLTEKİN(Student), 2022

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, June, 2022

Post Graduate, Post Graduate, Ankara Üniversitesi, May, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, March, 2022
Post Graduate, Post Graduate, Ankara Üniversitesi, February, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Analysis of asymmetric financial data with directional dependence measures**
Kara E. K., Açık Kemaloğlu S., Evkaya O.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.52, pp.1-24, 2023 (SCI-Expanded)

II. **Evaluation of the impact of Covid-19 on air traffic volume in Turkish airspace using artificial neural networks and time series**
Gultekin N., AÇIK KEMALOĞLU S.
Scientific reports, vol.13, no.1, pp.6551, 2023 (SCI-Expanded)

III. **Using fuzzy logic to interpret dependent risks**
Kemaloglu S., Shapiro A. F., TANK F., APAYDIN A.
Insurance: Mathematics and Economics, vol.79, pp.101-106, 2018 (SCI-Expanded)

IV. **Transmuted two-parameter Lindley distribution**
Açık Kemaloğlu S., Yılmaz M.
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.46, no.23, pp.11866-11879, 2017 (SCI-Expanded)

V. **Exponential-modified discrete Lindley distribution**
Yılmaz M., Hameldarbandi M., Açık Kemaloğlu S.
SPRINGERPLUS, vol.5, 2016 (SCI-Expanded)

VI. **Risk analysis under progressive type II censoring with binomial claim numbers**
Kemaloglu S., Gebizlioglu O. L.
Journal of Computational and Applied Mathematics, vol.233, no.1, pp.61-72, 2009 (SCI-Expanded)

Articles Published in Other Journals

I. **Modeling asymmetrically dependent automobile bodily injury claim data using Khoudraji Copulas**
Kizilok Kara E., AÇIK KEMALOĞLU S.
Sigma Journal of Engineering and Natural Sciences, vol.42, no.4, pp.1183-1193, 2024 (ESCI)

II. **Evaluation of oral manifestations and head and neck lymphadenopathy in newly diagnosed acute leukemia patients**
PAMUKÇU U., Dal M. S., Yaman S., Candir B. A., Bozan E., Secilmis S., Kemaloglu S., Altuntas F., PEKER İ.
SPECIAL CARE IN DENTISTRY, vol.44, no.3, pp.911-918, 2024 (ESCI)

III. **Artifacts Caused by Orthodontic Appliances on Magnetic Resonance Imaging: Awareness and Knowledge Level of Maxillofacial Radiologists and Orthodontists**
PAMUKÇU U., TORTOP T., Ozuturk O., AÇIK KEMALOĞLU S., PEKER İ.
CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, no.1, pp.77-86, 2024 (ESCI)

IV. **Exponential-Discrete Lindley Distribution: Properties and Applications**
AÇIK KEMALOĞLU S., YILMAZ M.
Mathematical Sciences and Applications E-Notes, vol.8, no.2, pp.21-31, 2020 (Peer-Reviewed Journal)

V. **Two New Distribution Families Constructed by a Modified Rank Transmutation**
YILMAZ M., AÇIK KEMALOĞLU S.
Mathematical Sciences and Applications E-Notes, vol.6, no.1, pp.106-112, 2018 (Peer-Reviewed Journal)

VI. **PORTFOLIO OPTIMIZATION UNDER PARAMETER UNCERTAINTY USING THE RISK AVERSION FORMULA**
AÇIK KEMALOĞLU S., EROĞLU İNAN G., APAYDIN A.

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.67, no.2, pp.50-63, 2018 (ESCI)

VII. **Risk Measures of the ERNB Distribution Generated by G-NB Family**
KIZILOK KARA E., AÇIK KEMALOĞLU S.
Mathematical Sciences and Applications E-Notes, vol.5, no.1, pp.77-84, 2017 (Peer-Reviewed Journal)

VIII. **PORTFOLIO OPTIMIZATION OF DYNAMIC COPULA MODELS FOR DEPENDENT FINANCIAL DATA USING CHANGE POINT APPROACH**
KARA E. K., AÇIK KEMALOĞLU S.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.65, no.2, pp.175-188, 2016 (ESCI)

IX. **Multi objective Portfolio Optimization with NSGA II and Portfolio Selection by using TOPSIS Applied to Stock Market in Turkey**
TÜRKŞEN Ö., AÇIK KEMALOĞLU S., APAYDIN A.
Selçuk Journal of Applied Mathematics, vol.16, no.2, pp.3-12, 2015 (Peer-Reviewed Journal)

X. **MODELING DEPENDENT FINANCIAL ASSETS BY DYNAMIC COPULA AND PORTFOLIO OPTIMIZATION BASED ON CVAR**
AÇIK KEMALOĞLU S., Kara E. K.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.64, no.1, pp.1-13, 2015 (ESCI)

XI. **Multi objective Portfolio Optimization with NSGA II and Portfolio Selection by using TOPSIS Applied to Turkey Stock Market**
TÜRKŞEN Ö., AÇIK KEMALOĞLU S., APAYDIN A.
Selcuk Journal of Applied Mathematics, vol.16, no.2, pp.3-12, 2015 (Peer-Reviewed Journal)

XII. **BİNOM AYRILMALI İLERLEYEN II TÜR SANSÜRLEME ALTINDA PARETO YAŞAM ZAMANI VERİLERİNİN İSTATİSTİKSEL ANALİZİ**
AÇIK KEMALOĞLU S., GEBİZLİOĞLU Ö. L.
e-Journal of New World Sciences Academy, vol.7, no.4, pp.137-145, 2012 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Modeling Currency Exchange Data with Asymmetric Copula Functions**
KIZILOK KARA E., AÇIK KEMALOĞLU S., EVKAYA Ö. O.
in: Advances in Econometrics, Operational Research, Data Science and Actuarial Studies: Techniques and Theories , Terzioğlu M. Kenan, Editor, Springer, pp.49-62, 2022

Refereed Congress / Symposium Publications in Proceedings

I. **Evaluation of Dependence with Asymmetric Models on a Real Dataset**
AÇIK KEMALOĞLU S., KIZILOK KARA E.
8th ICSTR Bali - International Conference on Science & Technology Research, 19-20 December 2022, Indonesia, 19 December 2022

II. **The Examination of Asymmetric Dependence by Using Copula Modeling**
KIZILOK KARA E., AÇIK KEMALOĞLU S., EVKAYA Ö. O.
20 th. International Symposium on Econometrics, Operations Research and Statistics (ISEOS 2020), Ankara, Turkey, 12 - 14 February 2020, pp.324

III. **Statistical Analysis of Wind Speed Data Using Some Alternative Distributions to Weibull**
AÇIK KEMALOĞLU S., KIZILOK KARA E.
5th ICSTR Dubai – International Conference on Science Technology Research, Dubai, United Arab Emirates, 11 - 12 December 2019, pp.6-7

IV. **A new compounded lifetime distribution**
AÇIK KEMALOĞLU S., YILMAZ M.
International Statistics Congress 2017, 6 - 08 December 2017

V. **A New Modified Transmuted Distribution Family**
YILMAZ M., AÇIK KEMALOĞLU S.
International Statistics Congress 2017, 6 - 08 December 2017

VI. **The Measurement of Directional Dependence for Some Asymmetric Copulas**
KIZILOK KARA E., AÇIK KEMALOĞLU S.
3rd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2017), Konya, Turkey, 24 - 26 May 2017, pp.297

VII. **Robust Portfolio Selection using Risk Aversion Formula**
AÇIK KEMALOĞLU S., EROĞLU İNAN G., APAYDIN A.
International 9.Statistics Congress, 28 October - 01 November 2015

VIII. **ÜSTEL UYARLANMIŞ KESİKLİ LİNDLEY DAĞILIMI**
AÇIK KEMALOGLU S., YILMAZ M.
Uluslararası 9. İstatistik Kongresi, Antalya, Turkey, 28 October - 01 November 2015

IX. **TRANSMUTED TWO PARAMETER LINDLEY DISTRIBUTION**
AÇIK KEMALOGLU S., YILMAZ M.
Uluslararası 9. İstatistik Kongresi, Antalya, Turkey, 28 October - 01 November 2015

X. **Portfolio Optimization by Change Point Approach Based on Dynamic Copula of Dependent Financial Data**
KIZILOK KARA E., AÇIK KEMALOĞLU S.
16th International Symposium on Econometrics, Operations Research and Statistics (ISEOS 2015), Edirne, Turkey, 7 - 09 May 2015, vol.4, pp.520-521

XI. **Risk Measures on the Erlang Negative Binomial Distribution**
KIZILOK KARA E., AÇIK KEMALOĞLU S.
9.Uluslararası İstatistik Kongresi (İSTKON 9), Antalya, Turkey, 28 October - 01 November 2015, pp.281-282

XII. **Risk Measures on the BURR XII Negative Binomial Distribution**
AÇIK KEMALOĞLU S., KIZILOK KARA E.
9.Uluslararası İstatistik Kongresi (İSTKON 9), Antalya, Turkey, 28 October - 01 November 2015, pp.261-262

XIII. **CVaR Risk Ölçüsüne Dayalı Portföy Optimizasyonu Dinamik Kopula Modeli**
AÇIK KEMALOĞLU S., KIZILOK KARA E.
Uluslararası 8. İstatistik Kongresi (İSTKON 8), Antalya, Turkey, 27 - 30 October 2013

XIV. **Multi objective portfolio optimization with Nondominated Sorting Genetic Algorithm II**
TÜRKŞEN Ö., AÇIK KEMALOĞLU S., APAYDIN A.
8th International Symposium of Statistics, 11 - 13 October 2012, pp.377-378

XV. **On the Selection of Copulas for the Modelling of Dependent Risks**
KIZILOK KARA E., TANK F., GEBİZLİOĞLU Ö. L., YAĞCI B., AÇIK KEMALOĞLU S.
12th International Congress on Insurance: Mathematics Economics, 16 - 18 July 2008

XVI. **Actuarial Risk Analysis Under Type II Progressive Censoring with Binomial Removals**
AÇIK KEMALOĞLU S., GEBİZLİOĞLU Ö. L.
5. Statistical Congress and Risk Measures and Solvency Meeting, 20 - 24 May 2007

XVII. **Binom Ayrılmalı İlerleyen II. Tür Sansürleme Altında Pareto Yaşam Zamanı Verilerinin İstatistiksel Analizi**
AÇIK KEMALOĞLU S., GEBİZLİOĞLU Ö. L.
5. İstatistik Günleri, Turkey, 24 - 27 May 2006

XVIII. **Rekor Değerlere Dayalı Risk Analizi Üzerine Bir Çalışma**
AÇIK KEMALOĞLU S., GEBİZLİOĞLU Ö. L.
3. İstatistik Kongresi, Turkey, 16 - 20 April 2003

Supported Projects

Şenoğlu B., Yılmaz M., Açık Kemaloğlu S., TUBITAK Project, İstatistiğe Giriş 1, 2015 - 2016

Tasks In Event Organizations

Açık Kemaloğlu S., Uluslararası 10. İstatistik Kongresi, Scientific Congress, Turkey, Aralık 2017

Açık Kemaloğlu S., Türkşen Ö., • International Workshop in Honor of Professor Ömer L. Gebizlioğlu on his 60th Birth Anniversary and his Retirement, Workshop Organization, Ankara, Turkey, Haziran 2012

Metrics

Publication: 38
Citation (WoS): 35
Citation (Scopus): 38
H-Index (WoS): 5
H-Index (Scopus): 4

Scholarships

2214- Yurt dışı araştırma bursu, TUBITAK, 2005 - 2005