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International Researcher IDs

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Publons / Web Of Science ResearcherID: T-9798-2019

ScopusID: 57202993825

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Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (Dr), Turkey 2014 - 2019

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (YI) (Tezli), Turkey 2011 - 2013

Undergraduate, Ankara University, Fen Fakültesi, İstatistik Bölümü, Turkey 2005 - 2011

Dissertations

Doctorate, BİR GEOMETRİK SÜRECİN ORTALAMA DEĞER VE VARYANS FONKSİYONLARI İÇİN KUVVET SERİSİ
AÇILIMLARI VE TAHMİNLERİ, Ankara University, Fen Bilimleri Enstitüsü, İstatistik (Dr), 2019

Postgraduate, Sayma süreçlerine ilişkin trend testleri ve karşılaştırılmaları, Ankara University, Fen Bilimleri Enstitüsü,
İstatistik (YI) (Tezli), 2013

Research Areas

Integral Equations, Integral Transformations, Computational Calculation, Statistics, Probability Theory, Stochastic
Processes, Statistics

Academic Titles / Tasks

Assistant Professor, Ankara University, Uygulamalı Bilimler Fakültesi, Aktüerya Bilimleri Bölümü, 2020 - Continues

Research Assistant, Ankara University, Fen Fakültesi, İstatistik Bölümü, 2015 - 2020

Academic and Administrative Experience

Vice Dean, Ankara University, Açık Ve Uzaktan Eğitim Fakültesi, Açık Ve Uzaktan Eğitim Fakültesi, 2024 - Continues

Deputy Head of Department, Ankara University, Uygulamalı Bilimler Fakültesi, Aktüerya Bilimleri Bölümü, 2023 -
Continues

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, July, 2022
Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, February, 2022
Post Graduate, Post Graduate, Atılım Üniversitesi, July, 2021
Post Graduate, Post Graduate, Atılım Üniversitesi, July, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Comparison of monotonic trend tests for some counting processes**
PEKALP M. H., AYDOĞDU H.
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.93, no.8, pp.1282-1296, 2023 (SCI-Expanded)
- II. **Some new bounds for the mean value function of the residual lifetime process**
PEKALP M. H.
STATISTICS & PROBABILITY LETTERS, vol.187, 2022 (SCI-Expanded)
- III. **Statistical inference for doubly geometric process with Weibull interarrival times**
PEKALP M. H., EROĞLU İNAN G., AYDOĞDU H.
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.51, no.6, pp.3428-3440, 2022 (SCI-Expanded)
- IV. **Estimation of the mean value function for gamma trend renewal process**
PEKALP M. H., Karaduman M. O., Aydogdu H.
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.51, no.6, pp.3441-3456, 2022 (SCI-Expanded)
- V. **Discriminating between some lifetime distributions in geometric counting processes**
PEKALP M. H., Aydogdo H., Turkman K. F.
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.51, no.3, pp.715-737, 2022 (SCI-Expanded)
- VI. **Power series expansions for the probability distribution, mean value and variance functions of a geometric process with gamma interarrival times**
PEKALP M. H., AYDOĞDU H.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.388, 2021 (SCI-Expanded)
- VII. **Statistical inference for doubly geometric process with exponential distribution**
PEKALP M. H., EROĞLU İNAN G., AYDOĞDU H.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.50, no.5, pp.1560-1571, 2021 (SCI-Expanded)
- VIII. **On optimal age replacement policy for a class of coherent systems**
ERYILMAZ S., PEKALP M. H.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.377, 2020 (SCI-Expanded)
- IX. **Plug-in estimators for the mean value and variance functions in delayed renewal processes**
PEKALP M. H., Altindag O., Acar O., AYDOĞDU H.
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.49, no.19, pp.4693-4711, 2020 (SCI-Expanded)
- X. **Parameter estimation in alpha-series process with lognormal distribution**
Kara M., Altindag O., PEKALP M. H., AYDOĞDU H.
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.48, no.20, pp.4976-4998, 2019 (SCI-Expanded)
- XI. **An asymptotic solution of the integral equation for the second moment function in geometric processes**
PEKALP M. H., AYDOĞDU H.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.353, pp.179-190, 2019 (SCI-Expanded)
- XII. **An integral equation for the second moment function of a geometric process and its numerical solution**
PEKALP M. H., AYDOĞDU H.
NAVAL RESEARCH LOGISTICS, vol.65, no.2, pp.176-184, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Bir yazılım ürününün hata ayıklama ve test etme maliyetleri için bir geometrik süreç yaklaşımı**
Pekalp M. H., Aydoğdu H.
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.13, pp.66-72, 2023 (Peer-Reviewed Journal)
- II. **Numerical solution to an integral equation for the kth moment function of a geometric process**
PEKALP M. H., Aydoğdu A.
Communications Faculty Of Science University of Ankara Series A1 Mathematics and Statistics, vol.70, no.2, pp.731-743, 2021 (ESCI)
- III. **Sabit Bekleme Zamanlı Tip II Sayaç Sürecinde Ortalama Değer ve Varyans Fonksiyonlarının Parametrik Tahmini**
PEKALP M. H., AYDOĞDU H.
Süleyman Demirel Üniversitesi Fen Edebiyat Fakültesi Fen Dergisi, vol.14, pp.28-38, 2019 (Peer-Reviewed Journal)
- IV. **Investigation of Trend by Graphical Methods in Counting Processes**
PEKALP M. H., AYDOĞDU H., KARABULUT İ.
Commun. Fac. Sci. Univ. Ank. Series A1, vol.63, no.1, pp.73-83, 2014 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **An Integral Equation for the Third Moment Function of a Geometric Process and Its Numerical Solution**
PEKALP M. H.
2. INTERNATIONAL HASANKEYF SCIENTIFIC STUDIES AND INNOVATION CONGRESS, Batman, Turkey, 25 June 2022
- II. **Discrimination of Exponential and Weibull Distributions in Doubly Geometric Process**
PEKALP M. H., AYDOĞDU H.
2. INTERNATIONAL HASANKEYF SCIENTIFIC STUDIES AND INNOVATION CONGRESS, Batman, Turkey, 25 June 2022
- III. **An application of a geometric process model for debugging and testing costs**
PEKALP M. H., AYDOĞDU H.
22nd European Young Statisticians Meeting, Greece, 6 - 10 September 2021
- IV. **DOUBLY GEOMETRIC PROCESS WITH GAMMA INTERARRIVAL TIMES**
Pekalp M. H., Eroğlu İnan G., Aydoğdu H.
14th International European Conference On Mathematics, Engineering, Natural & Medical Sciences, Budapest, Hungary, 26 March 2021
- V. **Statistical Inference for Doubly Geometric Process with Lognormal Interarrival Times**
EROĞLU İNAN G., PEKALP M. H., AYDOĞDU H.
1st International Applied Statistics Conference, Tokat, Turkey, 1 - 04 October 2020, pp.297
- VI. **Parameter Estimation in Doubly Geometric Process with Exponential Inter -renewal Times**
Pekalp M. H., Eroglu Inan G., Aydoğdu H.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 23 - 28 September 2019, vol.2293
- VII. **A Plug-in Estimator for the Mean Value Function of a Geometric Process with Exponential Distribution**
PEKALP M. H., ÖZBEK L., AYDOĞDU H.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 23 - 28 September 2019, vol.2293
- VIII. **Estimation of the Mean Value Function for Gamma Trend Renewal Process**
Karaduman M. Ö., PEKALP M. H., AYDOĞDU H.
International Conference on Mathematics and Mathematics Education, 27 - 29 June 2018

- IX. **A Parametric Estimator for the Geometric Function in Geometric Process with Exponential Interarrival Times**
PEKALP M. H., AYDOĞDU H.
International Conference on Mathematics and Mathematics Education, 27 - 29 June 2018
- X. **Some Bounds for the Mean Value Function of the Remaining Life Process Based on an Integral Equation**
PEKALP M. H., KARA M., AYDOĞDU H.
International Conference on Mathematics and Mathematics Education, 27 - 29 June 2018
- XI. **Parameter Estimation In Semi-Geometric Process With Exponential Interarrival Times**
Karaca B., PEKALP M. H., AYDOĞDU H.
International Conference on Mathematics and Mathematics Education, 27 - 29 June 2018
- XII. **THE EXACT DISTRIBUTION AND GEOMETRIC FUNCTION OF A GEOMETRIC PROCESS WITH ERLANG INTERARRIVAL TIMES**
PEKALP M. H., AYDOĞDU H.
4th International Researchers, Statisticians and Young Statisticians Congress, 28 - 30 April 2018
- XIII. **Plug-in Estimator for the Mean Value Function of Type II Counter Process with Constant Locking Time**
PEKALP M. H., AYDOĞDU H.
4th International Researchers, Statisticians and Young Statisticians Congress, 28 - 30 April 2018
- XIV. **Variance Function of Type II Counter Process with Constant Locking Time**
PEKALP M. H., AYDOĞDU H.
10TH INTERNATIONAL STATISTICS CONGRESS, 6 - 08 December 2017
- XV. **Power Series Expansion for the Variance Function of Erlang Geometric Process**
PEKALP M. H., AYDOĞDU H.
10TH INTERNATIONAL STATISTICS CONGRESS, 6 - 08 December 2017
- XVI. **Estimation of the Mean Value Function for Weibull Trend Renewal Process**
KARADUMAN M. Ö., PEKALP M. H., AYDOĞDU H.
10TH INTERNATIONAL STATISTICS CONGRESS, 6 - 08 December 2017
- XVII. **Estimation of Trend Function in Trend Renewal Process with Weibull Distribution**
KARADUMAN M. Ö., PEKALP M. H., AYDOĞDU H.
3rd International Researchers, Statisticians and Young Statisticians Congress, 24 - 26 May 2017
- XVIII. **Numerical Computation of the Variance Function in Geometric Processes**
PEKALP M. H., AYDOĞDU H.
3rd International Researchers, Statisticians and Young Statisticians Congress, 24 - 26 May 2017
- XIX. **Power Series Expansions for the OneDimensional Probability Distribution and Mean Value Function in Gamma Geometric Processes**
PEKALP M. H., AYDOĞDU H.
3rd International Researchers, Statisticians and Young Statisticians Congress, 24 - 26 May 2017
- XX. **Sayma Süreçlerine İlişkin Bazı Monoton Trend Testleri ve Karşılaştırılmaları**
PEKALP M. H., AYDOĞDU H.
Xth Statistics Days Conference, 7 - 09 October 2016
- XXI. **Aynı Tür Yedeğe Sahip Tamir Edilebilen Sistem için Seri Süreç ve bir Optimal Değiştirme Politikası**
PEKALP M. H., AYDOĞDU H., KARABULUT İ.
Uluslararası 9. İstatistik Kongresi, 28 October - 01 November 2015
- XXII. **AYNI TÜR YEDEĞE SAHİP TAMİR EDİLEBİLEN SİSTEM İÇİN ALFA SERİ SÜREÇ VE BİR OPTİMAL DEĞİŞTİRME POLİTİKASI**
Pekalp M. H., Aydoğdu H., Karabulut İ.
ULUSLARARASI 9.İSTATİSTİK KONGRESİ, İstanbul, Turkey, 28 - 30 October 2015
- XXIII. **Replacement Policies for Alpha-Series Processes**
PEKALP M. H., AYDOĞDU H., KARABULUT İ.
2nd ANKARA-ISTANBUL WORKSHOP ON STOCHASTIC PROCESSES, 18 - 19 June 2015

XXIV. Replacement Policies for Series Processes

PEKALP M. H., AYDOĞDU H., KARABULUT İ.

2nd Ankara-Istanbul Workshop on Stochastic Processes, 17 - 18 June 2015

XXV. Graphical Methods for Trend in Counting Processes

PEKALP M. H., AYDOĞDU H., KARABULUT İ.

9th International Statistics Day Symposium, 10 - 14 May 2014

Metrics

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