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International Researcher IDs

ORCID: 0000-0003-2815-686X

Publons / Web Of Science ResearcherID: AAJ-6833-2021

ScopusID: 57188809642

Yoksis Researcher ID: 223038

Education Information

- I. Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Turkey 2015 - 2022
- II. Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, İstatistik Ve Bilgisayar Bilimleri Anabilim Dalı, Turkey 2012 - 2015
- III. Undergraduate, Karadeniz Technical University, Fen Fakültesi, İstatistik ve Bilgisayar Bilimleri, Turkey 2008 - 2012

Foreign Languages

- I. English, B2 Upper Intermediate

Dissertations

- I. Doctorate, A Likelihood Index of Goodness of Fit Using Directional Approximation, Karadeniz Technical University, Fen Bilimleri Enstitüsü, -, 2022
- II. Postgraduate, Yönsel Verilerin Kümelenmesinde Bulanık C-Ortalamlar Algoritması, Karadeniz Technical University, -, İstatistik ve Bilgisayar Bilimleri, 2014

Research Areas

Statistics, Statistical Analysis and Applications, Natural Sciences

Academic Titles / Tasks

- I. Assistant Professor, Karadeniz Technical University, Fen Fakültesi, İstatistik ve Bilgisayar Bilimleri, 2023 - Continues
- II. Research Assistant, Karadeniz Technical University, Fen Fakültesi, İstatistik ve Bilgisayar Bilimleri, 2014 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Artificial locust swarm optimization algorithm**
KESEMEN O., ÖZKUL E., TEZEL Ö., TİRYAKİ B. K.
Soft Computing, vol.27, no.9, pp.5663-5701, 2023 (SCI-Expanded)
- II. **Random sampling with fuzzy replacement**
KESEMEN O., TİRYAKİ B. K., TEZEL Ö., ÖZKUL E., Naz E.
Expert Systems with Applications, vol.185, 2021 (SCI-Expanded)
- III. **A New Goodness of Fit Test for Multivariate Normality**
Kesemen O., Tiryaki B. K., Tezel Ö., Özkul E.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.50, no.3, pp.872-894, 2021 (SCI-Expanded)
- IV. **Fuzzy c-Means Directional Clustering (FCMDC) algorithm using trigonometric approximation**
KESEMEN O., TEZEL Ö., ÖZKUL E., TİRYAKİ B. K.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.1, pp.140-152, 2020 (SCI-Expanded)
- V. **Fuzzy c-means clustering algorithm for directional data (FCM4DD)**
KESEMEN O., TEZEL Ö., ÖZKUL E.
EXPERT SYSTEMS WITH APPLICATIONS, vol.58, pp.76-82, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **A new measure of preferred direction for circular data using angular wrapping**
Tezel Ö., Tiryaki B. K., Özkul E., Kesemen O.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.72, no.3, pp.778-802, 2023 (ESCI)
- II. **A New Goodness-of-Fit Test: Free Chi-Square (FCS)**
Tezel Ö., Tiryaki B. K., Özkul E., Kesemen O.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.34, no.3, pp.879-897, 2021 (ESCI)
- III. **Finding combinations of four-operations with Type-2 tree structure**
Özkul E., Tiryaki B. K., Tezel Ö., Ağayev E., Kesemen O.
Pamukkale University Journal of Engineering Sciences, vol.27, no.1, pp.52-59, 2021 (ESCI)
- IV. **Some Statistics in Polar Coordinate System with Uniform Angles**
Kesemen O., Tiryaki B. K., Tezel Ö., Pak A.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.33, no.3, pp.846-867, 2020 (ESCI)
- V. **Determination of the Confidence Intervals for Multimodal Probability Density Functions**
Kesemen O., Tiryaki B. K., Özkul E., Tezel Ö.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.1, pp.310-326, 2018 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Detection of Lines on Images with Multimodal Directional Artificial Bee Colony Algorithm**
Kesemen O., Özkul E., Tiryaki B. K., Tezel Ö.
11th International Statistics Days Conference, Muğla, Turkey, 3 - 07 October 2018, pp.151

- II. **A New Approximation for Fuzzy Directional Clustering(FDC)**
Kesemen O., Tezel Ö., Özkul E., Tiryaki B. K.
11th International Statistics Days Conference, Muğla, Turkey, 3 - 07 October 2018, pp.75
- III. **Directional K-Means Algorithm Using Signed Angular Distance**
Kesemen O., Tiryaki B. K., Tezel Ö., Özkul E.
11th International Statistics Days Conference, Muğla, Turkey, 3 - 07 October 2018, pp.155
- IV. **Calculating the Moments of Circular Data Using Angular Distance**
Kesemen O., Tezel Ö., Özkul E., Tiryaki B. K.
International Conference on Mathematics and Mathematics Education (ICMME-2018), Ordu, Turkey, 27 - 29 June 2018, pp.763-764
- V. **Solving Cross-Matching Puzzle Using Heuristic Approximation with Probabilities**
Kesemen O., Özkul E., Tezel Ö., Tiryaki B. K.
International Conference on Mathematics and Mathematics Education (ICMME-2018), Ordu, Turkey, 27 - 29 June 2018, pp.414
- VI. **Finding Combinations of Four Operations with Type-2 Search Method**
Kesemen O., Tiryaki B. K., Özkul E., Tezel Ö., Ağayev E.
International Conference on Computational and Statistical Methods in Applied Sciences COSTAS 2017, Samsun, Turkey, 9 - 11 November 2017, pp.37-38
- VII. **Yığın Ortalamasının Kestiriminde Z ve T Testlerinin Benzetimle Karşılaştırılması**
Kesemen O., Tiryaki B. K., Tezel Ö., Özkul E.
XVIII. Uluslararası Ekonometri, Yöneylem Araştırması ve İstatistik Sempozyumu 2017, Trabzon, Turkey, 5 - 07 October 2017, pp.422-423
- VIII. **Bitki Dallarının Ortalama Yönelim Sayılarının Belirlenmesinde Yönsel Kümeleme Yaklaşımı**
KESEMEN O., TİRYAKİ B. K., TEZEL Ö., ÖZKUL E.
XVIII. Uluslararası Ekonometri, Yöneylem Araştırması ve İstatistik Sempozyumu 2017, Trabzon, Turkey, 5 - 07 October 2017, pp.364
- IX. **Yapay Arı Kolonisi Algoritmasıyla Test Sorularının Soru Kağıdına Otomatik Yerleştirilmesi**
Kesemen O., Tiryaki B. K., Özkul E., Tezel Ö.
XVIII. Uluslararası Ekonometri, Yöneylem Araştırması ve İstatistik Sempozyumu 2017, Trabzon, Turkey, 5 - 07 October 2017, pp.382
- X. **A comparison of validity indices on fuzzy C-means clustering algorithm for directional data**
Kesemen O., Tezel Ö., Özkul E., Tiryaki B. K., Ağayev E.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- XI. **Hue-Based Segmentation of Color Images Using Weighted Directional Clustering Algorithms**
KESEMEN O., ÖZKUL E., TEZEL Ö., TİRYAKİ B. K., Vefaeinahr S.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XII. **Real Time Measurement of Micro Changes in Dinamic Images**
KESEMEN O., TEZEL Ö., ÖZKUL E., KESİM M.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XIII. **Comparison of the Directional Fuzzy Clustering Algorithms via Cluster Centers obtained the Directional Hierarchical Clustering**
Kesemen O., Tezel Ö., Pak A.
Xth International Statistics Days Conference, Giresun, Turkey, 7 - 09 October 2016, pp.734-742
- XIV. **Goodness-of-Fit Test For Directional Data**
KESEMEN O., BAYRAK H., TEZEL Ö.
9th International Statistics Congress, Antalya, Turkey, 28 October - 01 November 2015, pp.45-46
- XV. **Fuzzy Similarity Measure for Geometric Shapes in Digital Images**
KESEMEN O., TEZEL Ö., TİRYAKİ B. K.
International Symposium on Aggregation on Bounded Lattices (ABLAT), Trabzon, Turkey, 16 - 20 June 2014, pp.32
- XVI. **A New Method for Fuzzy Ranking for Fuzzy Numbers**
KESEMEN O., TİRYAKİ B. K., TEZEL Ö.

International Symposium on Aggregation on Bounded Lattices (ABLAT), Trabzon, Turkey, 16 - 20 June 2014, pp.33-34

XVII. **Average Air Temperature Forecasting of Trabzon Using Artificial Neural Networks**

Tezel Ö., Kesemen O., Özkul E.

9th International Statistics Days Symposium, Antalya, Turkey, 10 - 14 May 2014, pp.40

XVIII. **Different Approaches for Decrease of Type I Error at Chi-Square Goodness of Fit Test**

KESEMEN O., KESİM M., TEZEL Ö.

9. International Statistics Days Symposium, Antalya, Turkey, 10 - 14 May 2014, pp.69

XIX. **A New Approach to The Determination of The Optimal Number of Clusters**

Kesemen O., Tezel Ö.

8. International Statistics Congress, Antalya, Turkey, 27 - 30 October 2013, pp.352-353

Scientific Refereeing

- I. Veri Bilimi, Other Indexed Journal, July 2021
- II. Veri Bilimi, Other Indexed Journal, May 2021

Tasks In Event Organizations

- I. Tezel Ö., Tiryaki B. K., Özkul E., International Symposium on Aggregation on Bounded Lattices (ABLAT), Scientific Congress, Trabzon, Turkey, Haziran 2014

Metrics

Publication: 29
Citation (WoS): 66
Citation (Scopus): 81
H-Index (WoS): 3
H-Index (Scopus): 3

Congress and Symposium Activities

- I. 11. International Statistics Days Conference, Attendee, Muğla, Turkey, 2018
- II. International Conference on Mathematics and Mathematics Education (ICMME-2018), Attendee, Ordu, Turkey, 2018
- III. International Conference on Computational and Statistical Methods in Applied Sciences (COSTAS), Attendee, Samsun, Turkey, 2017
- IV. XVIII. Uluslararası Ekonometri, Yöneylem Araştırması ve İstatistik Sempozyumu, Attendee, Trabzon, Turkey, 2017
- V. 25th Signal Processing and Communications Applications Conference (SIU), Attendee, Antalya, Turkey, 2017
- VI. Xth International Statistics Days Conference, Attendee, Giresun, Turkey, 2016
- VII. 9th International Statistics Congress, Attendee, Antalya, Turkey, 2015
- VIII. International Symposium on Aggregation on Bounded Lattices (ABLAT), Attendee, Trabzon, Turkey, 2014
- IX. 9. International Statistics Days Symposium, Attendee, Antalya, Turkey, 2014
- X. 8. International Statistics Congress, Attendee, Antalya, Turkey, 2013

Coaching Duties

Refereeing Duties
