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International Researcher IDs

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

ScopusID: 57188809642

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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, 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-Ortalamalar 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, Bilgisayar Bilimleri, 2023 - Continues
II. Research Assistant, Karadeniz Technical University, Fen Fakültesi, 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 Determınatıon of The Optımal 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 Bİlimi, Other Indexed Journal, May 2021

Tasks In Event Organizations

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

Metrics

Publication: 29
Citation (WoS): 71
Citation (Scopus): 91
H-Index (WoS): 3
H-Index (Scopus): 4

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