



Personal Information

Office Phone: [+90 312 299 2016](tel:+903122992016)

Email: yeniay@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/yeniay>

Address: Hacettepe Üniversitesi Fen Fakültesi İstatistik Bölümü 06800 Beytepe Ankara

International Researcher IDs

ScholarID: 0t5i7ykAAAAJ

ORCID: 0000-0002-0287-4524

ScopusID: 8949828400

Yoksis Researcher ID: 184701

Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, İstatistik, Turkey 1994 - 1999

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Industrial Engineering , Optimization Theory and Methods, Linear Programming, Mathematics, Optimization, Statistics, Statistical Analysis and Applications, Natural Sciences, Engineering and Technology

Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Hacettepe University, Fen Fakültesi, 2017 - Continues

Fakülte Kurulu Üyesi, Hacettepe University, Fen Fakültesi, İstatistik Bölümü, 2017 - Continues

Head of Department, Hacettepe University, Fen Fakültesi, İstatistik Bölümü, 2017 - 2021

Advising Theses

YENİAY M. Ö., Türkiye' de bankaların etkinliğinin pencere analizi ile belirlenmesi, Postgraduate, N.ASLIHAN(Student), 2017

YENİAY M. Ö., Veri madenciliği yöntemleri ile ana harcama gruplarının paylarının tahmini, Postgraduate, L.AHI(Student), 2015

YENİAY M. Ö., Tabakalı rastgele örneklemede örneklem büyüklüklerinin genetik algoritma ile belirlenmesi, Postgraduate, D.TURFAN(Student), 2014

YENİAY M. Ö., Türkiye'nin AB üyeliğinin oylama gücü dağılımına etkisi, Postgraduate, H.BURCU(Student), 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **OzNet: A New Deep Learning Approach for Automated Classification of COVID-19 Computed Tomography Scans**
ÖZALTIN Ö., YENİAY M. Ö., Subasi A.
Big data, vol.11, no.6, pp.420-436, 2023 (SCI-Expanded)
- II. **Classification of brain hemorrhage computed tomography images using OzNet hybrid algorithm**
ÖZALTIN Ö., Coskun O., YENİAY M. Ö., Subasi A.
INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY, vol.33, pp.69-91, 2023 (SCI-Expanded)
- III. **A New Filter Approach Based on Effective Ranges for Classification of Gene Expression Data**
TURFAN D., Altunkaynak B., YENİAY M. Ö.
Big Data, 2023 (SCI-Expanded)
- IV. **A Deep Learning Approach for Detecting Stroke from Brain CT Images Using OzNet**
ÖZALTIN Ö., Coskun O., YENİAY M. Ö., Subasi A.
Bioengineering, vol.9, no.12, 2022 (SCI-Expanded)
- V. **A novel proposed CNN-SVM architecture for ECG scalograms classification**
Özaltın Ö., Yeniay M. Ö.
Soft Computing, vol.27, 2022 (SCI-Expanded)
- VI. **Hybrid differential evolutionary strawberry algorithm for real-parameter optimization problems**
Mashwani W. K., Khan A., GÖKTAŞ A., Unvan Y. A., Yaniay O., Hamdi A.
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.50, no.7, pp.1685-1698, 2021 (SCI-Expanded)
- VII. **Hybrid constrained evolutionary algorithm for numerical optimization problems**
Mashwani W. K., Zaib A., Yeniay Ö., Shah H., Tairan N. M., Sulaiman M.
Hacettepe Journal of Mathematics and Statistics, vol.48, no.3, pp.931-950, 2019 (SCI-Expanded)
- VIII. **A comparative simulation of multiple testing procedures in circular data problems**
Tasdan F., Yeniay O.
Journal of Applied Statistics, vol.45, no.2, pp.255-269, 2018 (SCI-Expanded)
- IX. **Solving large scale systems of linear equations with a stabilized Lanczos-type algorithms running on a cloud computing platform**
Maharani M., Salhi A., Mashwani W., Yeniay O., Larasati N., Triyani T.
Hacettepe Journal of Mathematics and Statistics, vol.47, no.6, pp.1730-1741, 2018 (SCI-Expanded)
- X. **Hybrid genetic algorithms for global optimization problems**
Asim M., Khan Mashwani W., Yeniay O., Jan M. A., Tairan N., Hussian H., Wang G.
Hacettepe Journal of Mathematics and Statistics, vol.47, no.3, pp.539-551, 2018 (SCI-Expanded)
- XI. **Hybrid adaptive evolutionary algorithm based on decomposition**
MASHWANI W. K., SALHI A., Yeniay O., JAN M. A., KHANUM R. A.
Applied Soft Computing Journal, vol.57, pp.363-378, 2017 (SCI-Expanded)
- XII. **Hybrid non-dominated sorting genetic algorithm with adaptive operators selection**
KHAN MASHWANI W., SALHI A., Yeniay O., HUSSIAN H., JAN M.
Applied Soft Computing Journal, vol.56, pp.1-18, 2017 (SCI-Expanded)
- XIII. **Optimization of citric acid production from a carrot juice-based medium by Yarrowia lipolytica using response surface methodology**
Urak S., Yeniay O., Karasu-Yalcin S.
ANNALS OF MICROBIOLOGY, vol.65, no.2, pp.639-649, 2015 (SCI-Expanded)
- XIV. **A shift parameter estimation based on smoothed Kolmogorov-Smirnov**
TASDAN F., Yeniay O.
Journal of Applied Statistics, vol.41, no.5, pp.1147-1159, 2014 (SCI-Expanded)
- XV. **NUMERICAL SOLUTION TO THE OPTIMIZATION PROBLEM IN SAMPLING**
KOYUNCU N., YENİAY O.
PAKISTAN JOURNAL OF STATISTICS, vol.30, no.2, pp.285-289, 2014 (SCI-Expanded)
- XVI. **Time Scale in Least Square Method**

Yeniay O., Isci O., Goktas A., Cankaya M. N.

ABSTRACT AND APPLIED ANALYSIS, 2014 (SCI-Expanded)

XVII. Comparative study of algorithms for response surface optimization

Yeniay Ö.

Mathematical and Computational Applications, vol.19, no.1, pp.93-104, 2014 (SCI-Expanded)

XVIII. Power study of circular anova test against nonparametric alternatives

TASDAN F., Yeniay O.

Hacettepe Journal of Mathematics and Statistics, vol.43, no.1, pp.97-115, 2014 (SCI-Expanded)

XIX. A comparative study of Artificial Neural Networks and Logistic Regression for classification of marketing campaign results

KOÇ A. A., Yeniay Ö.

Mathematical and Computational Applications, vol.18, no.3, pp.392-398, 2013 (SCI-Expanded)

XX. Using dual response surfaces to reduce variability in launch vehicle design: A case study

Yeniay O., UNAL R., LEPSCH R.

RELIABILITY ENGINEERING & SYSTEM SAFETY, vol.91, no.4, pp.407-412, 2006 (SCI-Expanded)

XXI. A comparative study on optimization methods for the constrained nonlinear programming problems

Yeniay O.

MATHEMATICAL PROBLEMS IN ENGINEERING, no.2, pp.165-173, 2005 (SCI-Expanded)

XXII. Penalty function methods for constrained optimization with genetic algorithms

Yeniay Ö.

Mathematical and Computational Applications, vol.10, no.1, pp.45-56, 2005 (SCI-Expanded)

XXIII. A modelling and multiobjective optimisation study of the light induced degradation parameters influencing the variation of distribution of annealing activation energies in a-Si : H

Yeniay O., KODOLBAS A.

COMPUTATIONAL MATERIALS SCIENCE, vol.32, no.2, pp.217-222, 2005 (SCI-Expanded)

Articles Published in Other Journals

I. Detection of monkeypox disease from skin lesion images using Mobilenetv2 architecture

Ozaltın O., YENİAY Ö.

Communications Faculty of Sciences University of Ankara Series A1: Mathematics and Statistics, vol.72, no.2, pp.482-499, 2023 (Peer-Reviewed Journal)

II. ECG Classification Performing Feature Extraction Automatically Using a Hybrid CNN-SVM Algorithm

Özaltın Ö., Yeniay M. Ö.

IEEE, 3rd International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), vol.2021, no.10.1109/HORA52670.2021.9461295, pp.1-5, 2021 (Scopus)

III. Lizbon Antlaşması Kapsamında Türkiye nin AB Üyeliğinin AB Bakanlar Konseyi nde Oylama Gücü Dağılımı Üzerindeki Etkisi

Eskici H. B., YENİAY M. Ö.

Anadolu Üniversitesi Sosyal Bilimler Dergisi, vol.13, no.2, pp.123-141, 2013 (Peer-Reviewed Journal)

IV. AWARENESS AND ACCEPTANCE OF LASERS IN DENTISTRY IN TURKISH POPULATION

TOSUN E., AKTAŞ A., BAYRAM H., YENİAY M. Ö., TASAR F., ALTAY M. A.

Clinical Dentistry and Research, vol.37, pp.30-34, 2013 (Peer-Reviewed Journal)

V. Olası Bir İstanbul Depreminde Yaralı Toplama Noktalarının Konuşlandırılmasının Optimizasyonu

darende b., YENİAY M. Ö.

ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY –A Applied Sciences and Engineering, vol.12, no.1, pp.1-11, 2012 (Peer-Reviewed Journal)

VI. A Comparison of partial least squares regression with other prediction methods

YENİAY M. Ö., Goktaş A.

Hacettepe Journal Of Mathematics And Statistics, vol.31, pp.99-111, 2002 (Peer-Reviewed Journal)

- VII. **A comparison of the performances between a genetic algorithm and the Taguchi method over artificial problems Yapay Problemler Üzerinde Genetik Algoritma ile Taguchi Yönteminin Performanslarının Karşılaştırılması**
Yeniay Ö.
Turkish Journal of Engineering and Environmental Sciences, vol.25, no.6, pp.561-568, 2001 (Scopus)

Books & Book Chapters

- I. **Artificial intelligence-based brain hemorrhage detection**
Özaltın Ö., Yeniay M. Ö., Subasi A.
in: Accelerating Strategic Changes for Digital Transformation in the Healthcare Industry Information Technologies in Healthcare Industry, Patricia Ordóñez de Pablos Xi Zhang, Editor, Academic Press , London, pp.179-199, 2023
- II. **Hybrid Honey Bees Meta-Heuristic For Benchmark Data Classification**
Shah H., Tairan N., Yeniay M. Ö., Mashwani W. K.
in: Exploring Critical Approaches of Evolutionary Computation, Muhammad Sarfraz, Editor, IGI-Global, Arizona, pp.149-165, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **ECG Classification Performing Feature Extraction Automatically Using a Hybrid CNN-SVM Algorithm**
ÖZALTIN Ö., YENİAY M. Ö.
3rd International Congress on Human-Computer Interaction, Optimization and Robotic Applications, HORA 2021, Ankara, Turkey, 11 - 13 June 2021
- II. **Citric acid production by Yarrowia lipolytica in natural fermentation medium containing carrot juice and wheat protein concentrates**
URAK Ş., YALÇIN E., YENİAY M. Ö., KARASU YALÇIN S.
5th International ISEKI Food Conference, 3 - 05 July 2018
- III. **A comparison of filter methods for classification of high-dimensional data sets**
TURFAN D., YENİAY M. Ö.
Applied Statistics 2017, 24 - 27 September 2017
- IV. **Ar Ge Etkinliğinin Veri Zarflama Analizi ve Topsis Yöntemleri İle Belirlenmesi ORCD Ülkeleri Üzerine Bir Uygulama**
YENİAY M. Ö., UYSAL S.
INTERNATIONAL STRATEGIC RESEARCH CONGRESS, Antalya, Turkey, 3 - 06 November 2016
- V. **DETERMINING R D EFFICIENCY WITH DATA ENVELOPMENT ANALYSIS AND TOPSIS METHODS AN APPLICATION ON OECD COUNTRIES**
Uysal S., YENİAY M. Ö.
2nd International Researchers-Statisticians and Young Statisticians Congress (IRSYSC), 4 - 08 May 2016
- VI. **Modelling citric acid production of Yarrowia lipolytica in a carrot juice based medium by response surface methodology**
SİLAN U., YENİAY M. Ö., KARASU YALÇIN S.
6. INTERNATIONAL CONFERENCE ON ENVIRONMENTAL INDUSTRIAL AND APPLIED MICROBIOLOGY, 28 - 30 October 2015

Supported Projects

YENİAY M. Ö., Project Supported by Higher Education Institutions, Mühendislik Optimizasyon Problemleri için Melez Sezgisel Yöntemler, 2017 - 2019

YENİAY M. Ö., TURFAN D., Project Supported by Higher Education Institutions, Çok Boyutlu Veri Kümelerinin Sınıflandırılmasında Filtre Yöntemlerinin Karşılaştırılması, 2017 - 2017

YENİAY M. Ö., TURFAN D., AKTAŞ ALTUNAY S., YILMAZ A. E., Project Supported by Higher Education Institutions, Güney Afrika İstatistik Derneği, Cape Town Üniversitesi, 2016 İstatistik Konferansı, 2016 - 2017

Metrics

Publication: 38

Citation (WoS): 145

Citation (Scopus): 689

H-Index (WoS): 6

H-Index (Scopus): 8

Non Academic Experience

Hacettepe Üniversitesi