

Prof. ÇAĞIN KANDEMİR ÇAVAŞ

Personal Information

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International Researcher IDs

ScholarID: NzQLsv4AAAAJ

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Publons / Web Of Science ResearcherID: P-2016-2019

ScopusID: 24597493600

Yoksis Researcher ID: 189827

Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, İstatistik (Dr), Turkey 2005 - 2010

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, İstatistik (Yl) (Tezli), Turkey 2002 - 2005

Undergraduate, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, Turkey 1997 - 2002

Dissertations

Doctorate, On clustering and classification methods in biosequence analysis, Dokuz Eylul University, Fen Bilimleri Enstitüsü, İstatistik (Dr), 2010

Postgraduate, COST FUNCTION ESTIMATION IN MULTI-SERVER QUEUEING SYSTEMS FOR IMPATIENT CUSTOMERS, Dokuz Eylul University, Fen Bilimleri Enstitüsü, İstatistik (Yl) (Tezli), 2004

Research Areas

Computer Sciences, bioinformatics

Academic Titles / Tasks

Professor, Dokuz Eylul University, Fen Fakültesi, Bilgisayar Bilimleri Bölümü, 2019 - Continues

Associate Professor, Dokuz Eylul University, Fen Fakültesi, Bilgisayar Bilimleri Bölümü, 2013 - 2019

Assistant Professor, Dokuz Eylul University, Fen Fakültesi, Bilgisayar Bilimleri Bölümü, 2011 - 2013

Research Assistant, Dokuz Eylul University, Fen Fakültesi, Bilgisayar Bilimleri Bölümü, 2010 - 2011

Research Assistant, Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü, 2002 - 2010

Academic and Administrative Experience

Adaptation/Exemption Committee Member, Dokuz Eylul University, Fen Fakültesi, Bilgisayar Bilimleri Bölümü, 2024 - Continues

Enstitü Kurulu Üyesi, Dokuz Eylul University, Fen Fakültesi, Bilgisayar Bilimleri Bölümü, 2020 - 2023

Head of Department, Dokuz Eylul University, Fen Fakültesi, Bilgisayar Bilimleri Bölümü, 2020 - 2023

Faculty Board Member, Dokuz Eylul University, Fen Fakültesi, Bilgisayar Bilimleri Bölümü, 2020 - 2023

Head of Department, Dokuz Eylul University, Fen Fakültesi, Bilgisayar Bilimleri Bölümü, 2020 - 2023

Internship Coordinator, Dokuz Eylul University, Fen Fakültesi, Bilgisayar Bilimleri Bölümü, 2015 - 2018

Courses

Doctorate

Ph. D. Thesis, Doctorate, 2023 - 2024, 2022 - 2023

Ph.D. Research, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Ph.D. Seminar, Doctorate, 2023 - 2024, 2021 - 2022

Undergraduate

Çok Değişkenli Veri Analizi, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

İstatistik Giriş, Undergraduate, 2024 - 2025, 2023 - 2024

Biyoenformatik, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Bilgi Teknolojileri ve Uygulamaları, Undergraduate, 2024 - 2025

Bitirme Projesi, Undergraduate, 2019 - 2020, 2018 - 2019, 2016 - 2017, 2015 - 2016

Supervised Theses

Kandemir Çavaş Ç., Next generation solution methods in terms of big data for the area of Bioinformatics., Doctorate, Ç.Çınar(Student), Continues

Kandemir Çavaş Ç., Analysis of Bioinformatics Data with Artificial Intelligence Algorithms, Doctorate, D.ERASLAN(Student), Continues

Kandemir Çavaş Ç., On machine learning techniques for detecting eye diseases, Postgraduate, O.Yüksel(Student), 2023
KANDEMİR ÇAVAŞ Ç., Image processing methods for retinal vessel segmentation, Postgraduate, O.YÜKSEL(Student), 2023

KANDEMİR ÇAVAŞ Ç., Biyosekans veri analizinde bilgisayar-tabanlı yaklaşımalar, Postgraduate, Ç.KÜÇÜK(Student), 2020

KANDEMİR ÇAVAŞ Ç., Protein motif çıkarımında öğrenme-tabanlı yaklaşımalar, Postgraduate, Ç.ÇİNAR(Student), 2019

KANDEMİR ÇAVAŞ Ç., Diskriminant analizinde kernel ve bulanık yaklaşımlarının kullanılması, Postgraduate, S.YILDIRIM(Student), 2014

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2023

Published journal articles indexed by SCI, SSCI, and AHCI

I. In Silico Analysis of Bioactive Peptides in Invasive Sea Grass *Halophila stipulacea*

Kandemir Çavaş Ç., Perez-Sanchez H., Mert-Ozupek N., Çavaş L.
CELLS, vol.8, no.6, 2019 (SCI-Expanded)

II. The Topology Prediction of Membrane Proteins: A Web-Based Tutorial

Kandemir Çavaş Ç., Çavaş L., Alyürük H.
INTERDISCIPLINARY SCIENCES-COMPUTATIONAL LIFE SCIENCES, vol.10, no.2, pp.291-296, 2018 (SCI-Expanded)

III. A short note on the paper of Liu et al. (2012). A relative Lempel-Ziv complexity: Application to comparing biological sequences. Chemical Physics Letters, volume 530, 19 March 2012, pages 107-112

- Arit T., Keskin B., Firuzan E., Kandemir Çavaş Ç., Liu L., Çavaş L.
 CHEMICAL PHYSICS LETTERS, vol.698, pp.110-113, 2018 (SCI-Expanded)
- IV. Classifying ordered-disordered proteins using linear and kernel support vector machines**
 Kandemir Çavaş Ç., Yıldırım S.
 TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGİSİ, vol.41, no.6, pp.431-436, 2016 (SCI-Expanded)
- V. Effects of carbon nanotubes on the mechanical strength of self-polishing antifouling paints**
 Dustebek J., Kandemir Çavaş Ç., Nitodas S. F., Çavaş L.
 PROGRESS IN ORGANIC COATINGS, vol.98, pp.18-27, 2016 (SCI-Expanded)
- VI. Classification of apoptosis proteins by discriminant analysis**
 Kandemir Çavaş Ç., Nasibov E.
 TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGİSİ, vol.37, no.1, pp.54-61, 2012 (SCI-Expanded)
- VII. OWA-based linkage method in hierarchical clustering: Application on phylogenetic trees**
 Nasibov E., Kandemir Çavaş Ç.
 EXPERT SYSTEMS WITH APPLICATIONS, vol.38, no.10, pp.12684-12690, 2011 (SCI-Expanded)
- VIII. Efficiency analysis of KNN and minimum distance-based classifiers in enzyme family prediction**
 Nasibov E., Kandemir Çavaş Ç.
 COMPUTATIONAL BIOLOGY AND CHEMISTRY, vol.33, no.6, pp.461-464, 2009 (SCI-Expanded)
- IX. Protein subcellular location prediction using optimally weighted fuzzy k-NN algorithm**
 Nasibov E., Kandemir Çavaş Ç.
 COMPUTATIONAL BIOLOGY AND CHEMISTRY, vol.32, no.6, pp.448-451, 2008 (SCI-Expanded)
- X. A novel application of queueing theory on the Caulerpenyne secreted by invasive Caulerpa taxifolia (Vahl) C.Agardh (Ulvophyceae, Caulerpales): a preliminary study**
 Kandemir-Cavas Ç., ÇAVAŞ L., YOKEŞ M. B., Hlynka M., Schell R., YURDAKOÇ M. K.
 MEDITERRANEAN MARINE SCIENCE, vol.9, no.1, pp.67-75, 2008 (SCI-Expanded)
- XI. An application of queueing theory to the relationship between insulin level and number of insulin receptors**
 Kandemir Çavaş Ç., Çavaş L.
 TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGİSİ, vol.32, no.1, pp.32-38, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. Bulanık K-En Yakın Komşuluk Algoritmasında Lempel-Ziv Mesafe Ölçütünün Etkisi: Büyüme Faktörlerinin Sınıflandırılması Örneği**
 Çifci B. T., Kabadayı R., Kandemir Çavaş Ç.
 Journal of Science, Technology and Engineering Research, vol.5, no.2, pp.148-162, 2024 (Peer-Reviewed Journal)
- II. Investigation of bioactive peptides from *Scolymus hispanicus* by using in silico methods**
 Çavaş L., Doğmaz S., Kandemir Çavaş Ç.
 Bulletin of Biotechnology, vol.5, no.1, pp.11-18, 2024 (Peer-Reviewed Journal)
- III. Protein Verilerinin Ayrık Dalgacık Dönüşümü İle Analizi**
 Kandemir Çavaş Ç.
 Bayburt Üniversitesi Fen Bilimleri Dergisi, vol.6, no.1, pp.20-29, 2023 (Peer-Reviewed Journal)
- IV. Wavelet Transform-Based Phylogenetic Analysis of Protein Sequences**
 Kandemir Çavaş Ç.
 Southeast Europe Journal of Soft Computing, vol.11, no.1, pp.7-12, 2022 (Peer-Reviewed Journal)
- V. Classification of Signaling Proteins using Computer-based Methods**
 Çağdaş K., Kandemir Çavaş Ç.
 Euroasia Journal of Applied Sciences, vol.8, pp.53-62, 2020 (Peer-Reviewed Journal)
- VI. Comparison of Classifiers for the Risk of Obesity Prediction Among High School Students**
 Kuruoğlu Kandemir E., Kandemir Çavaş Ç., Efe A.
 Usak University Journal of Engineering Sciences, vol.2, no.1, pp.15-21, 2019 (Peer-Reviewed Journal)

- VII. **Sexual Dimorphism Prediction of *Darevskia bithynica* (Méhely 1909) from Northwestern Anatolia, Turkey by Using Artificial Neural Network**
 Kandemir Çavaş Ç., Kumlutaş Y., Candan K., Ilgaz Ç.
Hacettepe Journal of Biology and Chemistry, vol.46, no.4, pp.473-480, 2018 (Peer-Reviewed Journal)
- VIII. **The phylogenetic relationships of lipase enzymes according to their thermal stability by a computational approach**
 Kandemir Çavaş Ç., Arit T.
Usak University Journal of Engineering Science, vol.1, no.1, pp.1-7, 2018 (Peer-Reviewed Journal)
- IX. **Cost function estimation in multiserver queueing systems with impatient customers and application on supermarket**
 Kandemir Çavaş Ç., Ege Oruç Ö.
DEÜ Sosyal Bilimler Enstitüsü Dergisi, vol.6, 2007 (Peer-Reviewed Journal)

Books

- I. **IN SILICO ANALYSIS OF BIOSEQUENCE SIMILARITIES**
 Soyupak N., Kandemir Çavaş Ç.
 in: Research & Reviews in Science and Mathematics, PROF. DR. HASAN AKGÜL, PROF. DR. HASAN HÜSEYİN DOĞAN, DR. ONUR KARAMAN, ASSOC. PROF. DR. MEHMET YÜKSEL, Editor, Gece Publishing, Ankara, pp.53-63, 2021

Papers Published in Refereed Scientific Meetings

- I. **Bioinformatics Methods in the Development of Antifouling Paint Formulas**
 Çavaş L., Kandemir Çavaş Ç.
 International Symposium on Ballast Water and Biofouling Management in IAS Prevention and Control, Antalya, Turkey, 28 - 30 November 2023
- II. **Fundus Image Processing Methods for Retinal Vessel Segmentation**
 Yüksel O., Kandemir Çavaş Ç.
 INTERNATIONAL SYMPOSIUM SERIES ON GRADUATE RESEARCHES 2022, İzmir, Turkey, 02 December 2022, pp.1-4
- III. **Recent developments in bioinformatics**
 Kandemir Çavaş Ç.
 İkinci Uluslararası Temel Bilim İkili Çalıştayı, İzmir, Turkey, 18 November 2022, pp.12
- IV. **Sequence Analysis of Sars-Cov-2 and Similar Genomes**
 Çınar Ç., Kandemir Çavaş Ç.
 International Congress of Multidisciplinary Innovative Approaches, İstanbul, Turkey, 2 - 04 June 2022, pp.1-2
- V. **Fuzzy Classification of Growth Factors Using Lempel-Ziv Complexity**
 Cifci B. T., Kabadayı R., Kandemir Çavaş Ç.
 International Congress of Multidisciplinary Innovative Approaches, İstanbul, Turkey, 2 - 04 June 2022, pp.1-2
- VI. **On the string matching algorithms in sequence analysis**
 Çınar Ç., Kandemir Çavaş Ç.
 On the string matching algorithms in sequence analysis, Adana, Turkey, 26 - 28 October 2016, pp.1-2
- VII. **Lipaz enzimlerinin filogenetik ilişkilerinin yeni bir yaklaşım aracılığıyla gösterilmesi**
 Arit T., Kandemir Çavaş Ç.
 2nd IMSEC, Adana, Turkey, 25 - 27 October 2017
- VIII. **Obezite Risk Faktörlerinin VeriMadenciliği Yöntemleri ile Belirlenmesi**
 Kuruoğlu Kandemir E., Kandemir Çavaş Ç., Efe A.
 IMSEC 2017, Adana, Turkey, 25 - 27 October 2017
- IX. **Carboncomp projesi kapsamında gerçekleştirilen yapay sinir ağları ile modelleme çalışmaları**

- Gökgiliz P., Tsikatouras G., Nitodas S., Baybogan İşilak Z. B., Akçalı A., Kandemir Çavaş Ç., Çavaş L.
 18. Ulusal Sualtı Bilim ve Teknolojisi Toplantısı, İzmir, Turkey, 14 - 15 November 2015, pp.1-2
- X. **Self-polishing percentages of carbonnanotubereinforced rosin**
 Dustebek J., Kandemir Çavaş Ç., Nitodas S., Çavaş L.
 Paintistanbul 2014, İstanbul, Turkey, 22 - 25 October 2014
- XI. **L."Effects of carbonnanotubes on the mechanicalstrength of self-polishing antifouling paints**
 Dustebek J., Kandemir Çavaş Ç., Nitodas S., Çavaş L.
 Paintistanbul-2014, İstanbul, Turkey, 22 - 24 October 2014
- XII. **Artificial neural netwrok modelling for self-polishing coatings in marine application.**
 Çavaş L., Karabay Z., Çomak G., Kandemir Çavaş Ç.
 40th CIESM Congress, Paris, France, 28 October - 01 November 2013
- XIII. **Prediction of Ligases Subclasses by Using Fuzzy k-NN Method**
 Kandemir Çavaş Ç., Nasiboğlu E.
 The Fourth International Student Conference on Advanced Science and Technology, İzmir, Turkey, 26 - 28 May 2010, pp.120-121
- XIV. **Kredi değerlendirmesinde lojistik regresyon ve yapay sinir ağları yaklaşımları**
 Vupa Çilengiroğlu Ö., Kandemir Çavaş Ç.
 17. İstatistik Araştırma Sempozumu, İzmir, Turkey, 8 - 09 May 2008, pp.293-303
- XV. **Unusual superoxide dismutases and unstructured regions.**
 ÇAVAŞ L., KANDEMİR ÇAVAŞ Ç., Peter T.
 Central-Eastern European Integrated Structural Biology Infrastructure Meeting, 29 March - 01 April 2009
- XVI. **On the statistical association between type of amino acid and protein structure in disorder proteins**
 KANDEMİR ÇAVAŞ Ç., ÇAVAŞ L.
 Central-Eastern European Integrated Structural Biology Infrastructure Meeting, 29 March - 01 April 2009
- XVII. **Alternative Hierarchical Clustering Approach in Construction of Phylogenetic Trees**
 KANDEMİR ÇAVAŞ Ç., Nasibov E.
 14th National Biomedical Engineering Meeting, İzmir, Turkey, 20 - 22 May 2009, pp.219-222
- XVIII. **Caulerpa racemosa var.cylindracea ve Dictyota dichotoma'dan elde edilen sıvı gübrelerin Phaselus vulgaris üzerine etkileri**
 Çavaş L., Kandemir Çavaş Ç., Alyürük H.
 11. Sualtı Bilim ve Teknolojisi Toplantısı, İstanbul, Turkey, 3 - 04 November 2007, pp.74-82
- XIX. **Alterations in Electrolytes of Underwater Rugby Players.**
 ÇAVAŞ L., KANDEMİR ÇAVAŞ Ç., YURDAKOÇ M. K.
 13th International Physical Education and Sports Conference, 20 - 22 May 2005
- XX. **Sabırsız Müşteriler için Çok Servis Birimli Kuyruk Sistemlerinde Maliyet Fonksiyonu Tahmini ve Bir Süpermarket Üzerinde Uygulama**
 KANDEMİR ÇAVAŞ Ç., EGE ORUÇ Ö.
 4. İstatistik Kongresi, Antalya, Turkey, 17 - 20 May 2005
- XXI. **A statistical investigation on the injuries observed in Underwater Rugby**
 ÇAVAŞ L., KANDEMİR ÇAVAŞ Ç., DAĞLIOĞLU Ö.
 SBD 8.International Sports Sciences Conference, 17 - 20 November 2004

Activities in Scientific Journals

Smyrna Journal of Natural and Data Sciences, Committee Member, 2024 - Continues

Metrics

Publication: 48

Citation (WoS): 115

Citation (Scopus): 126

H-Index (WoS): 5

H-Index (Scopus): 5

Awards

Kandemir Çavaş Ç., 2001-2002 Fen-Edebiyat Fakülte İkincisi, Dokuz Eylül Üniversitesi, June 2002

Kandemir Çavaş Ç., 2001-2002 İstatistik Bölümü Birincisi, Dokuz Eylül Üniversitesi Fen-Edebiyat Fakültesi, June 2002