

# Prof. ÇAĞIN KANDEMİR ÇAVAŞ

## Personal Information

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## International Researcher IDs

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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

## Foreign Languages

English, B2 Upper Intermediate

## 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

## Courses

M.Sc. Thesis, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013  
Ph. D. Thesis, Doctorate, 2023 - 2024, 2022 - 2023  
Ph.D. Research, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
M.Sc. Research, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013  
M. Sc. Seminar, Postgraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2015 - 2016, 2013 - 2014  
Ph.D. Seminar, Doctorate, 2023 - 2024, 2021 - 2022  
Information Technologies, Undergraduate, 2023 - 2024, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017  
Biyoenformatik, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

## Advising Theses

Kandemir Çavaş Ç., Data analysis using machine learning techniques, Postgraduate, D.Kızıltunç(Student), Continues  
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., Biyosekans veri analizinde bilgisayar-tabanlı yaklaşımlar, Postgraduate, Ç.KÜÇÜK(Student), 2020  
KANDEMİR ÇAVAŞ Ç., Protein motif çıkarımında öğrenme-tabanlı yaklaşımlar, Postgraduate, Ç.ÇINAR(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., Yildirim S.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, 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 DERGISI, 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., YOKES 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 DERGISI, vol.32, no.1, pp.32-38, 2007 (SCI-Expanded)

## Articles Published in Other Journals

- I. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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 & Book Chapters

### 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

## Refereed Congress / Symposium Publications in Proceedings

### 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

Çifci 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 Veri Madenciliği 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 çalışmalarını

Gökfiliz P., Tsikatouras G., Nitodas S., Baybogan Işlak Z. B., Akçalı A., Kandemir Çavaş Ç., Çavaş L.

18. Ulusal Suatli Bilim ve Teknolojisi Toplantisi, 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 mechanical strength 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 network 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 deęerlendirmesinde lojistik regresyon ve yapay sinir aęları yaklařımları**  
Vupa ilengiroęlu ., Kandemir avař .  
17. İstatistik Arařtırma Sempozyumu, İzmir, Turkey, 8 - 09 May 2008, pp.293-303
- XV. **Unusual superoxide dismutases and unstructured regions.**  
AVAŐ L., KANDEMİR AVAŐ ., 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 AVAŐ ., AVAŐ 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 AVAŐ ., 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 gbrelerin Phaselus vulgaris zerine etkileri**  
avař L., Kandemir avař ., Alyrk H.  
11. Sualtı Bilim ve Teknolojisi Toplantısı, İstanbul, Turkey, 3 - 04 November 2007, pp.74-82
- XIX. **Alterations in Electrolytes of Underwater Rugby Players.**  
AVAŐ L., KANDEMİR AVAŐ ., YURDAKO M. K.  
13th International Physical Education and Sports Conference, 20 - 22 May 2005
- XX. **Sabırsız Mřteriler iin ok Servis Birimli Kuyruk Sistemlerinde Maliyet Fonksiyonu Tahmini ve Bir Spermarket zerinde Uygulama**  
KANDEMİR AVAŐ ., EGE ORU .  
4. İstatistik Kongresi, Antalya, Turkey, 17 - 20 May 2005
- XXI. **A statistical investigation on the injuries observed in Underwater Rugby**  
AVAŐ L., KANDEMİR AVAŐ ., DAęLIOęLU .  
SBD 8.International Sports Sciences Conference, 17 - 20 November 2004

## Metrics

Publication: 44

Citation (WoS): 109

Citation (Scopus): 114

H-Index (WoS): 5

H-Index (Scopus): 5