

Prof. MEHMET KUNTALP



Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: W-4067-2017

ScopusID: 56247263600

Yoksis Researcher ID: 18435

Education Information

Doctorate, Northwestern University, School of Engineering, Biomedical Engineering, United States Of America 1994 - 1998

Postgraduate, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, Turkey 1989 - 1992

Undergraduate, Bogazici University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 1983 - 1988

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, A Study of the Timing Mechanisms Underlying the Motor and Cognitive Functions of the Cerebellum, Northwestern University, School of Engineering, Biomedical Engineering, 1998

Postgraduate, Artificial Neural Networks, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 1992

Research Areas

Pattern Recognition and Image Processing, Neural Networks, Biomedical Image Processing, Biosignal Processing

Academic Titles / Tasks

Professor, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2014 - Continues
Associate Professor, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2009 - 2014

Lecturer, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 1999 - 2000

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 1989 -

Academic and Administrative Experience

Head of Department, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Biyomedikal Teknolojiler, 2023 - Continues
 Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2020 - 2022
 Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2020 - 2022
 Head of Department, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Biomedical Technologies, 2011 - 2020
 Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2005 - 2010
 Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2000 - 2003

Courses

BIOELECTRICITY, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
 FUNDAMENTALS OF BIOMEDICAL ENGINEERING, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006
 MEDICAL DEVICES, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
 PHYSIOLOGY FOR ENGINEERS, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
 TECHNOLOGY AND ENGINEERING MANAGEMENT, Undergraduate, 2022 - 2023
 BIOMEDICAL SIGNAL PROCESSING, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
 CIRCUIT THEORY 1, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
 CIRCUIT THEORY 2, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
 BIOMEDICAL INSTRUMENTATION, Postgraduate, 2014 - 2015

Advising Theses

Kuntalp M., Using ML and/or AI methods for gesture recognitions via a 3D Sensor over a countertop, Postgraduate, T.Kara(Student), Continues
 Kuntalp M., NDMPI Non-Destructive Metal Particle Inspection by Digital Image Processing and Machine Learning, Doctorate, İ.Kozak(Student), Continues
 Kuntalp M., Design of an efficient brain computer interface system for paralyzed people, Doctorate, M.Kancaoğlu(Student), Continues
 Kuntalp M., A Novel Loss Function Using Deep Neural Networks For Colorectal Polyp Segmentation, Doctorate, M.Ozan(Student), 2023
 KUNTALP M., Çekişmeli üretici ağ kullanılarak sentetik data üretmede yeni ve verimli bir metod, Postgraduate, O.DÜZYEL(Student), 2023
 KUNTALP M., PAF (paroksizmal atriyal fibrilasyon) hastalarının teşhisi için TBA (temel bileşenler analizi) boyut azaltma metoduyla elde edilen özneliklerin performans analizi, Postgraduate, S.SADAGHIYANFAM(Student), 2018
 KUNTALP M., PAF hastası olan ve olmayan kişilerin normal sinüs ritm EKG kayıtlarından elde edilen KHD verilerinin yeni bir topluluk metodu kullanılarak kümelmesi, Postgraduate, O.ALIGHOLIPOUR(Student), 2018

KUNTALP M., Birleşik öğrenme kullanılarak sinüs ritim EKG kayıtlarından PAF taraması, Postgraduate, F.BİLGİN(Student), 2017

KUNTALP M., Aritmisiz EKG kayıtlarından paroksizmal atriyal fibrilasyon hastalarını teşhis edici sistem geliştirilmesi, Doctorate, İ.HİLAVİN(Student), 2016

KUNTALP M., Vücuttan temassız ölçüm yapan kırmızı-altı sıcaklık ölçüm cihazının dizayn ve inşası, Postgraduate, İ.VOLKAN(Student), 2014

KUNTALP M., Quadrotor insansız hava aracı için simulator tasarımı, Postgraduate, İ.ATEŞ(Student), 2012

KUNTALP M., Matlab ortamında el işareti tanımlamalı robot kol kontrolcüsü geliştirme, Postgraduate, İ.BARAN(Student), 2012

KUNTALP M., Konjestif kalp yetmezliğinde kalp hızı değişkenliği indislerinin çeşitli varyasyonlarının etkilerinin ayrıntılı analizi, Doctorate, Y.İŞLER(Student), 2009

KUNTALP M., Aritmi datalarının som kullanılarak sınıflandırılması, Postgraduate, G.DAYAN(Student), 2006

KUNTALP M., Tıbbi veri tabanı tasarımı, Postgraduate, M.AYTİMUR(Student), 2006

KUNTALP M., Fuzzy C-means sınıflandırma ile otomatik diken belirleme, Postgraduate, Z.HİLAL(Student), 2005

KUNTALP M., Etkileşimli tıbbi üç boyutlu görüntüleme için nesne tabanlı bir transfer fonksiyon editörü, Postgraduate, M.ALPER(Student), 2005

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), December, 2023

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), December, 2023

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), December, 2023

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), May, 2023

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), May, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Dokuz Eylül Üniversitesi, February, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Dokuz Eylül Üniversitesi, February, 2023

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), December, 2022

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), May, 2022

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), May, 2022

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), July, 2021

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), May, 2021

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), July, 2020

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), July, 2020

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), February, 2020

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), February, 2020

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), October, 2017

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), March, 2017

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, İzmir Ekonomi Üniversitesi, March, 2017

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), April, 2016

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), March, 2016

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), October, 2015

Associate Professor Exam, Associate Professor Exam, Diğer (Kurumlar,hastaneler Vb.), November, 2014

Designed Lessons

Kuntalp M., Neural Computation, Postgraduate, 2022 - 2023

Kuntalp M., HRV Analysis, Postgraduate, 2014 - 2015
Kuntalp M., Medical Devices, Postgraduate, 2013 - 2014
Kuntalp M., Cardiovascular Engineering, Postgraduate, 2012 - 2013
Kuntalp M., Physiology for Engineers, Postgraduate, 2011 - 2012
Kuntalp M., Biomedical Instrumentation, Undergraduate, 2010 - 2011
Kuntalp M., Bioelectricity, Undergraduate, 2010 - 2011
Kuntalp M., Biomedical Signal Processing, Postgraduate, 2009 - 2010
Kuntalp M., Fundamentals of Biomedical Engineering, Undergraduate, 2009 - 2010
Kuntalp M., Magnetic Resonance Imaging, Postgraduate, 2005 - 2006

Education Infrastructure Information

Selver M. A., Kuntalp M., Biyomedikal Laboratuvarı Kurulumu, September 2006

Designed Programs

Kuntalp M., Selver M. A., Postgraduate, Biyomedikal Teknolojiler, 2012 - Continues
Kuntalp M., Selver M. A., Doctorate, İleri Biyomedikal Teknolojiler Sanayi Ortak Doktora Programı, 2012 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A new method for GAN-based data augmentation for classes with distinct clusters**
Kuntalp M., Düzyel O.
Expert Systems with Applications, vol.235, 2024 (SCI-Expanded)
- II. **A New Shapley-Based Feature Selection Method in a Clinical Decision Support System for the Identification of Lung Diseases**
Kababulut F. Y., Kuntalp D. G., Duezyel O., Ozcan N., KUNTALP M.
DIAGNOSTICS, vol.13, no.23, 2023 (SCI-Expanded)
- III. **A new imbalance-aware loss function to be used in a deep neural network for colorectal polyp segmentation**
Gokkan O., KUNTALP M.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.151, 2022 (SCI-Expanded)
- IV. **Importance of data preprocessing for neural networks modeling: The case of estimating the compaction parameters of soils**
Isik F., ÖZDEN G., KUNTALP M.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.29, no.1, pp.463-474, 2012 (SCI-Expanded)
- V. **Heart rate normalization in the analysis of heart rate variability in congestive heart failure**
Isler Y., KUNTALP M.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE, vol.224, pp.453-463, 2010 (SCI-Expanded)
- VI. **Optimizing the performance of an MLP classifier for the automatic detection of epileptic spikes**
Kutlu Y., KUNTALP M., GÜRKAN KUNTALP D.
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.4, pp.7567-7575, 2009 (SCI-Expanded)
- VII. **Combining classical HRV indices with wavelet entropy measures improves to performance in diagnosing congestive heart failure**
Isler Y., KUNTALP M.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.37, no.10, pp.1502-1510, 2007 (SCI-Expanded)

- VIII. **A study on fuzzy C-means clustering-based systems in automatic spike detection**
Inan Z. H., KUNTALP M.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.37, no.8, pp.1160-1166, 2007 (SCI-Expanded)
- IX. **A software tool for interactive generation, representation, and systematical storage of transfer functions for 3D medical images**
SELVER M. A., Fischer F., Kuntalp M., Hillen W.
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.86, no.3, pp.270-280, 2007 (SCI-Expanded)
- X. **Computational model of an adaptive rhythm generator within the olivocerebellar system**
KUNTALP M.
NETWORK-COMPUTATION IN NEURAL SYSTEMS, vol.16, no.1, pp.55-84, 2005 (SCI-Expanded)
- XI. **Automatic detection of epileptiform events in EEG by a three-stage procedure based on artificial neural networks**
Acir N., Oztura I., KUNTALP M., Baklan B., Guzelis C.
IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, vol.52, no.1, pp.30-40, 2005 (SCI-Expanded)
- XII. **A simple and low-cost Internet-based teleconsultation system that could effectively solve the health care access problems in underserved areas of developing countries**
KUNTALP M., Akar O.
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.75, no.2, pp.117-126, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Elektrik ve Elektronik Mühendisliği Bünyesinde Biyomedikal Laboratuvarı Kurulumu**
İşler Y., Selver M. A., Kutlu Y., Gürkan Kuntalp D., Kuntalp M.
Akademik Dizayn Dergisi, vol.2, no.3, pp.86-90, 2008 (Non Peer-Reviewed Journal)
- II. **ELEKTRİK VE ELEKTRONİK MÜHENDİSLİĞİNDE MODÜLERTABANDA PROBLEME DAYALI EĞİTİM PROGRAMLARININ YAPILANDIRILMASI**
ÖZKURT A., GÜRKAN KUNTALP D., ZORAL E. Y., KUNTALP M., ÖZTURA H., GÜNDÜZALP M., GÜZELİŞ C., ŞAHİN Ö.
DEÜ MÜHENDİSLİK FAKÜLTESİ FEN VE MÜHENDİSLİK DERGİSİ, vol.7, no.3, pp.2330, 2005 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Data Augmentation with GAN increases the Performance of Arrhythmia Classification for an Unbalanced Dataset**
KUNTALP M., Düzyel O.
4th International EurasianSciEnTech 2022, Ankara, Turkey, 14 - 16 December 2022, pp.545-552
- II. **Healthy-Unhealthy Classification using Respiratory Sounds and Shapley Values of Features**
KABABULUT F. Y., GÜRKAN KUNTALP D., KUNTALP M.
2nd International Artificial Intelligence in Health Conference, İzmir, Turkey, 16 April 2021, vol.1, pp.263-275
- III. **Healthy-Unhealthy Classification Using Respiratory Sounds and Shapley Values of Features**
Kababulut F. Y., KUNTALP M., GÜRKAN KUNTALP D.
2nd International Artificial Intelligence in Health Congress IATI2021, İzmir, Turkey, 16 - 18 April 2021, vol.1, pp.263-274
- IV. **Performance Comparison of Polyp Segmentation Model Using Imbalance-Aware Losses in Deep Neural Networks**
Gökkan M. O., KUNTALP M.
2nd International Artificial Intelligence in Health Congress IATI2021, İzmir, Turkey, 16 - 18 April 2021, vol.1, pp.341-346
- V. **Genetic Algorithm based Clinical Decision Support System for the Early Diagnosis of Cardiovascular**

Diseases

özcan n., KUNTALP M.

2nd International Artificial Intelligence in Health Congress IATI2021, İzmir, Turkey, 16 - 18 April 2021, vol.1, pp.40-47

- VI. **Identification of Colorectal Polyp Region using Optimized Deep Convolutional Encoder-Decoder Network**
KUNTALP M., Gökkan M. O.
2nd International Artificial Intelligence in Health Congress, AITA, İzmir, Turkey, 16 - 18 April 2021, vol.1, pp.341-346
- VII. **Two-Class Fuzzy Clustering Ensemble Approach Based on a Constraint on Fuzzy Memberships**
Aligholipour O., KUNTALP M.
7th Annual International Conference on Information Management and Big Data, SIMBig 2020, Virtual, Online, 1 - 03 October 2020, pp.139-153
- VIII. **Analysing the Performance of LDA (Linear Discriminant Analysis) Feature for Diagnosing PAF (Paroxysmal Atrial Fibrillation) Patients**
Sadaghiyanfam S., KUNTALP M.
International Scientific Meeting on Electrical-Electronics and Biomedical Engineering and Computer Science (EBBT), İstanbul, Turkey, 24 - 26 April 2019
- IX. **The Effect of Harmonics Count on SSVEP-Based BCI Results**
Kancaoglu M., KUNTALP M.
Innovations in Intelligent Systems and Applications Conference (ASYU), İzmir, Turkey, 31 October - 02 November 2019, pp.110-113
- X. **Silent Paroxysmal Atrial Fibrillation Detection by Neural Networks Based on ECG Records**
Aligholipour O., KUNTALP M., Sadaghiyanfam S.
International Scientific Meeting on Electrical-Electronics and Biomedical Engineering and Computer Science (EBBT), İstanbul, Turkey, 24 - 26 April 2019
- XI. **Clustering of PAF and non-PAF Subjects Based on Arrhythmia-Free Records**
KUNTALP M., aligholipour o.
Uluslararası katılımlı elektrik, elektronik, bilgisayar, biyomedikal mühendislikleri bilimsel toplantısı, 11 - 13 October 2018
- XII. **Clustering of Paroxysmal Atrial Fibrillation (PAF) and non-PAF subjects based on arrhythmia-free records**
Aligholipour O., KUNTALP M.
4th Electric Electronics, Computer Science, Biomedical Engineerings' Meeting, EBBT 2018, İstanbul, Turkey, 18 - 19 April 2018, pp.1-5
- XIII. **Comparing the Performances of PCA (Principle Component Analysis) and LDA (Linear Discriminant Analysis) Transformations on PAF (Paroxysmal Atrial Fibrillation) Patient Detection**
Sadaghiyanfam S., KUNTALP M.
3rd International Conference on Biomedical Imaging, Signal Processing (ICBSP), Bari, Italy, 11 - 13 October 2018, pp.1-5
- XIV. **Determining Best HRV Indices for PAF Screening by Genetic Algorithm**
özcan n., KUNTALP M.
eleco 2017, Bursa, Turkey, 30 November - 02 December 2017
- XV. **Determining Best HRV Indices for PAF Screening using Genetic Algorithm**
Ozcan N., KUNTALP M.
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.1385-1388
- XVI. **PAROXYSMAL ATRIAL FIBRILLATION (PAF) SCREENING BY ENSEMBLE LEARNING**
Bilgin F., KUNTALP M.
5th International Symposium on Electrical and Electronics Engineering (ISEEE), Galati, Romania, 20 - 22 October 2017

- XVII. Classification of Paroxysmal Atrial Fibrillation Patients with SD1, SD2 and CCM Features**
Hilavin I., KUNTALP M.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.297-300
- XVIII. Prediction of paroxysmal atrial fibrillation onset by using ECG**
Hilavin I., KUNTALP M.
International Symposium on INnovations in Intelligent SysTems and Applications, INISTA 2012, Trabzon, Turkey, 2 - 04 July 2012
- XIX. Development of a robotic-arm controller by using hand gesture recognition**
Çelik I. B., KUNTALP M.
International Symposium on INnovations in Intelligent SysTems and Applications, INISTA 2012, Trabzon, Turkey, 2 - 04 July 2012
- XX. Clustering of arrhythmic ECG beats using morphological properties and windowed raw ECG data**
Artimik EKG vurularinin morfolojik özelli kleri ve pencerelemiş ham EKG verilerini kullanarak gruplanması
Gezer B. L., GÜRKAN KUNTALP D., KUNTALP M.
2011 IEEE 19th Signal Processing and Communications Applications Conference, SIU 2011, Antalya, Turkey, 20 - 22 April 2011, pp.738-741
- XXI. Classification of arrhythmias using spectral features with K nearest neighbor method**
Aritmilerin spektral özellikler kullanılarak en yakın k komşu metoduyla sınıflandırılması
Hilavin I., KUNTALP M., GÜRKAN KUNTALP D.
2011 IEEE 19th Signal Processing and Communications Applications Conference, SIU 2011, Antalya, Turkey, 20 - 22 April 2011, pp.411-414
- XXII. Classification of arrhythmias according to the energy spectral density features by using Kernel density estimation**
BİŞKİN O. T., KUNTALP M., GÜRKAN KUNTALP D.
2010 15th National Biomedical Engineering Meeting, Antalya, Turkey, 21 - 24 April 2010
- XXIII. EKG Vurularının Morfolojik Özelliklerin Topografik Analizi**
KUTLU Y., KUNTALP M., GÜRKAN KUNTALP D.
14. Biyomedikal Mühendisliği Ulusal Toplantısı, İzmir, Turkey, 20 - 22 May 2009
- XXIV. Topographic Analysis of Morphologic Features of ECG beats**
Kutlu Y., KUNTALP M., GÜRKAN KUNTALP D.
14th National Biomedical Engineering Meeting, İzmir, Turkey, 20 - 22 May 2009, pp.159-162
- XXV. Microcontroller Based Hodgkin-Huxley Model Neuron Simulation**
Isler Y., KUNTALP M., GONEL G.
14th National Biomedical Engineering Meeting, İzmir, Turkey, 20 - 22 May 2009, pp.389-392
- XXVI. Diagnosis of Congestive Heart Failure Patients using Poincare Measures Derived from ECG Signals**
Isler Y., KUNTALP M.
14th National Biomedical Engineering Meeting, İzmir, Turkey, 20 - 22 May 2009, pp.151-154
- XXVII. Özdüzenleyici Haritalar Kullanılarak Aritmik EKG Vurularının Topografik Analizi**
KUTLU Y., KUNTALP M., GÜRKAN KUNTALP D.
13. Biyomedikal Mühendisliği Ulusal Toplantısı, Turkey, 29 - 31 May 2008
- XXVIII. Özdüzenleyici haritalar Kullanılarak Diken Dalgaların Analizi**
KUTLU Y., KUNTALP M., GÜRKAN KUNTALP D.
Genç Bilim İnsanları ve Beyin Biyofiziği Çalıştayı, Turkey, 21 - 23 February 2008
- XXIX. Arrhythmia Classification Using Higher Order Statistics**
Kutlu Y., GÜRKAN KUNTALP D., KUNTALP M.
IEEE 16th Signal Processing and Communications Applications Conference, Aydın, Turkey, 20 - 22 April 2008, pp.733-736
- XXX. Investigating the Effects of the Methods Used in Frequency Domain Measures in Heart Rate Variability Analysis**

- Isler Y., AVCU N., KOCAOĞLU A., KUNTALP M.
IEEE 16th Signal Processing and Communications Applications Conference, Aydın, Turkey, 20 - 22 April 2008, pp.601-604
- XXXI. **Effect of the input window size in arrhythmia classification with multilayer perceptron network structures**
Kutlu Y., KUNTALP M., GÜRKAN KUNTALP D.
IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.628-631
- XXXII. **Final prediction error of autoregressive model as a new feature in the analysis of heart rate variability**
Isler Y., KUNTALP M.
IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.656-659
- XXXIII. **Investigating effects of wavelet entropy detailed measures in heart rate variability analysis**
Isler Y., KUNTALP M.
IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.161-164
- XXXIV. **Web based remote patient monitoring system**
Zeyhek M., Tavli M. M., GÜRKAN KUNTALP D., KUNTALP M.
IEEE 14th Signal Processing and Communications Applications, Antalya, Turkey, 16 - 19 April 2006, pp.607-608
- XXXV. **Detection of spikes with multiple layer perceptron network structures**
Kutlu Y., Isler Y., GÜRKAN KUNTALP D., KUNTALP M.
IEEE 14th Signal Processing and Communications Applications, Antalya, Turkey, 16 - 19 April 2006, pp.277-278
- XXXVI. **Classification of branch block beats using higher order spectral analysis and neural networks**
Torun M. U., Isler Y., GÜRKAN KUNTALP D., KUNTALP M.
IEEE 14th Signal Processing and Communications Applications, Antalya, Turkey, 16 - 19 April 2006, pp.437-438
- XXXVII. **Investigating the effects of wavelet entropy in heart rate variability analysis for diagnosing of congestive heart failure**
Isler Y., KUNTALP M.
IEEE 14th Signal Processing and Communications Applications, Antalya, Turkey, 16 - 19 April 2006, pp.281-282
- XXXVIII. **Etkileşimli Tıbbi Üç Boyutlu Görüntüleme için Nesne Tabanlı Bir Transfer Fonksiyon Editörü**
Selver M. A., Fischer F., Kuntalp M., Hillen W.
10. Biyomedikal Mühendisliği Ulusal Toplantısı (BİYOMUT), İstanbul, Turkey, 1 - 04 May 2005, pp.110-120
- XXXIX. **Tıbbi Görüntü İşleme İçin Geliştirilmiş Java Tabanlı Bir DICOM Görüntüleme Yazılımı**
Selver M. A., Fischer F., Kuntalp M., Hillen W.
10. Biyomedikal Mühendisliği Ulusal Toplantısı (BİYOMUT), İstanbul, Turkey, 1 - 04 May 2005, pp.101-119
- XL. **Comparison of Two Scenario Examples For a Freshman Year Module in Electrical and Electronics Engineering Program**
GÜRKAN KUNTALP D., KUNTALP M., KILINÇ S., ÖNAY A. B., ÖZEL M., AKGÜNGÖR K., GÜZELİŞ C.
New Information Technologies in Education, Turkey, 20 - 22 October 2004
- XLI. **Elektrik ve Elektronik Mühendisliğinde Ders ve Modüler Tabanlı Eğitim Programlarında Takım Çalışması Üzerine Deneyimler**
ZORAL E. Y., ÖZKURT A., ÖZTURA H., GÜRKAN KUNTALP D., KUNTALP M.
Elektrik Elektronik Bilgisayar Mühendislikleri Eğitimi 1. Ulusal Sempozyumu, Ankara, Turkey, 30 April - 02 May 2003
- XLII. **Elektrik ve Elektronik Mühendisliğinde Modüler tabanda aktif eğitim Programlarının Yapılandırılması, ölçme ve Değerlendirme**
ÖZKURT A., GÜRKAN KUNTALP D., ZORAL E. Y., ÖZTURA H., ŞAHİN Ö., KUNTALP M., GÜNDÜZALP M., GÜZELİŞ C.
Elektrik, Elektronik, Bilgisayar Mühendislikleri Eğitimi 1. Ulusal Sempozyumu ve Sergisi, Turkey, 30 April - 02 May 2003, pp.37-40
- XLIII. **Elektrik ve Elektronik Mühendisliğinde Modüler Tabanda Aktif Programların Yapılandırılması Ölçme**

ve Değerlendirme

ÖZTURA H., KUNTALP M., ÖZKURT A., ZORAL E. Y., GÜRKAN KUNTALP D., GÜZELİŞ C.

Elektrik, Elektronik, Bilgisayar Mühendislikleri Eğitimi 1. Ulusal Sempozyumu, Ankara, Turkey, 30 April - 02 May 2003

XLIV. Increasing Learning Performance via In Class Team Quizzes in EEE Courses

ZORAL E. Y., GÜRKAN KUNTALP D., KUNTALP M., ÖZTURA H., GÜZELİŞ C.

New Information Technologies In Education Symposium, İzmir, Turkey, 1 - 05 September 2002

XLV. Building up design modules in problem based education

ÖZKURT A., ÖZTURA H., KUNTALP M., GÜRKAN KUNTALP D., ZORAL E. Y., GÜZELİŞ C.

New Information Technologies in Education Symposium, İzmir, Turkey, 2 - 05 September 2002

XLVI. Integration in the freshman class in the electrical engineering curriculum

ÖZKURT A., GÜZELİŞ C., KUNTALP M., GÜRKAN KUNTALP D., ZORAL E. Y.

New Information Technologies in Education Symposium, 1 - 05 September 2002

XLVII. How to create scenarios for problem based EEE curriculum

KUNTALP M., GÜRKAN KUNTALP D., ÖZTURA H., ZORAL E. Y., ÖZKURT A., GÜZELİŞ C.

New Information Technologies in Education Symposium, İzmir, Turkey, 2 - 05 September 2002

XLVIII. A functional model of the olivocerebellar system that produces rhythmic activity at gamma frequency

KUNTALP M.

23rd Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society, İstanbul, Turkey, 25 - 28 October 2001, vol.23, pp.802-805

Supported Projects

KUNTALP M., Project Supported by Higher Education Institutions, Felçli Hastalar için Etkili bir Beyin-Bilgisayar Arabirimi Sisteminin Geliştirilmesi, 2019 - 2022

KUNTALP M., Project Supported by Higher Education Institutions, Düşme Tespitine Yönelik Akıllı Halı Tasarımı, 2018 - 2022

Selver M. A., Kuntalp M., Project Supported by Higher Education Institutions, Biyomedikal Sinyal Ve Görüntü İşleme Laboratuvarı İçin Varolan Altyapının Geliştirilmesi Projesi, 2014 - 2016

KUNTALP M., Project Supported by Higher Education Institutions, BİYOMEDİKAL SİNYAL VE GÖRÜNTÜ İŞLEME LABORATUVARI İÇİN VAROLAN ALTYAPININ GELİŞTİRİLMESİ PROJESİ, 2012 - 2014

KUNTALP M., Project Supported by Higher Education Institutions, EKG KAYITLARINDAN GENEL AMAÇLI BİR OTOMATİK ARITMI SINIFLANDIRMA SİSTEMİ GELİŞTİRİLMESİ, 2007 - 2009

Selver M. A., Kuntalp M., Project Supported by Higher Education Institutions, Biyomedikal Laboratuar Kurulumu Projesi, 2003 - 2006

Selver M. A., Kuntalp M., Project Supported by Higher Education Institutions, EKG Kayıtlarından Yararlanılarak Ani Ölüm Riskinin Tespit Edilmesi, 2003 - 2006

ÖZKURT A., KUNTALP M., Project Supported by Higher Education Institutions, Elektrik ve Elektronik Mühendisliği Eğitiminde Probleme Dayalı Öğrenme için İnternet Intranet Tabanlı Destek ve İdari Otomasyon sistemi Tasarımı, 2003 - 2006

Scientific Refereeing

COMPUTERS IN BIOLOGY AND MEDICINE, SCI Journal, December 2023

Emergency R&D Project of Group A, Karadeniz Technical University, Turkey, December 2023

TUBITAK Project, 1002 - Quick Support Program, Gazi University, Turkey, December 2023

R&D Project of Group B, Diğer (Kurumlar,hastaneler Vb.), Turkey, August 2023

R&D Project of Group B, Diğer (Kurumlar,hastaneler Vb.), Turkey, August 2023

R&D Project of Group B, Diğer (Kurumlar,hastaneler Vb.), Turkey, August 2023

R&D Project of Group B, Diğer (Kurumlar,hastaneler Vb.), Turkey, August 2023

TUBİTAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Diğer (Kurumlar,hastaneler Vb.), Turkey, June 2023

KOSGEB, KARAKUTU ELEKTROAKUSTİK PROJE VE UYGULAMA SANAYİ VE TİCARET LİMİTED ŞİRKETİ, Turkey, April 2023

TUBİTAK Project, 3501 - National Young Researcher Career Development Program, Koc University, Turkey, September 2022

COMPUTERS IN BIOLOGY AND MEDICINE, SCI Journal, May 2017

COMPUTERS IN BIOLOGY AND MEDICINE, SCI Journal, March 2016

Scientific Consultations

TUBİTAK, Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, Turkey, 2022 - Continues

TUBİTAK, Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, Turkey, 2022 - Continues

TUBİTAK, Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, Turkey, 2015 - 2018

TUBİTAK, Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, Turkey, 2014 - 2015

TUBİTAK, Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, Turkey, 2013 - 2013

TUBİTAK, Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, Turkey, 2012 - 2012

Metrics

Publication: 62

Citation (WoS): 376

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H-Index (Scopus): 7

Non Academic Experience

Ministry, TÜSEB, Proje Yönetimi ve Destek Daire Başkanlığı

Ministry, KOSGEB, İzmir Müdürlüğü

TUBİTAK, TEYDEB, EEEAG

TUBİTAK, TEYDEB, EEEAG

TUBİTAK, TEYDEB, EEEAG