

Prof. EMİNE BOLAT

Personal Information

Email: ebolat@kocaeli.edu.tr

Education Information

Doctorate, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Eğitimi Anabilim Dalı, Turkey 1998 - 2005

Post Graduate, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Ve Bilgisayar Eğitimi Anabilim Dalı, Turkey 1995 - 1998

Under Graduate, Marmara Üniversitesi, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, Turkey 1990 - 1995

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Kesintisiz güç kaynakları için sayısal tabanlı evirici denetimi, Kocaeli University, Fen Bilimleri Enstitüsü, 2005

Post Graduate, PIC tabanlı otomatik ayarlı PID denetleyici, Kocaeli University, Fen Bilimleri Enstitüsü, 1998

Research Areas

Biomedical Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Kocaeli University, Teknoloji Fakültesi, Biyomedikal Mühendisliği, 2020 - Continues

Professor, Kocaeli University, Köseköy Meslek Yüksekokulu, Elektronik ve Otomasyon, 2019 - 2020

Associate Professor, Kocaeli University, Teknoloji Fakültesi, Biyomedikal Mühendisliği, 2015 - 2019

Assistant Professor, Kocaeli University, Teknik Eğitim Fakültesi, Elektronik ve Bilgisayar Eğitimi, 2006 - 2015

Research Assistant, Kocaeli University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi, 1996 - 2006

Academic and Administrative Experience

Fakülte Kurulu Üyesi, Kocaeli University, Teknoloji Fakültesi, Biyomedikal Mühendisliği, 2019 - Continues

Fakülte Kurulu Üyesi, Kocaeli University, Teknik Eğitim Fakültesi, 2019 - Continues

Fakülte Yönetim Kurulu Üyesi, Kocaeli University, Teknik Eğitim Fakültesi, 2019 - Continues

Birim Kalite Komisyonu Üyesi, Kocaeli University, Teknoloji Fakültesi, Biyomedikal Mühendisliği, 2019 - Continues

Head of Department, Kocaeli University, Teknoloji Fakültesi, Biyomedikal Mühendisliği, 2019 - Continues

Kocaeli Üniversitesi, Teknik Eğitim Fakültesi, 2016 - Continues

Fakülte Yönetim Kurulu Üyesi, Kocaeli University, Teknoloji Fakültesi, Biyomedikal Mühendisliği, 2017 - 2019

Fakülte Kurulu Üyesi, Kocaeli University, Teknoloji Fakültesi, Biyomedikal Mühendisliği, 2016 - 2019
Head of Department, Kocaeli University, Teknik Eğitim Fakültesi, Elektronik ve Bilgisayar Eğitimi, 2012 - 2015

Courses

BİYOMEDİKAL TRANSDÜSERLER, Doctorate, 2017 - 2018
MANTIK DEVRELERİ, Under Graduate, 2016 - 2017, 2017 - 2018
OTOMATİK KONTROL SİSTEMLERİ, Under Graduate, 2016 - 2017, 2017 - 2018
PROJE A, Under Graduate, 2016 - 2017, 2017 - 2018
VHDL İLE DENETLEYİCİ TASARIMI, Post Graduate, 2016 - 2017
Biyomedikal Transdüserler, Post Graduate, 2016 - 2017
Proje B, Under Graduate, 2016 - 2017
Temel Bilgi Teknolojileri Kullanımı, Associate Degree, 2016 - 2017
Biyomedikal Enstrümantasyon, Under Graduate, 2016 - 2017

Advising Theses

Bolat E., Şeker hastalığı tedavisinde kullanılan insulin(INS) geninin hayvan türlerindeki gen uyumunun tespiti, Post Graduate, M.BAHAR(Student), 2020
Bolat E., Yüksek yoğunluklu odaklanmış ultrason (HIFU) dalgalarının dana karaciğeri üzerinde oluşturduğu termal ablasyonun görüntü işleme teknikleri ile analizi, Post Graduate, K.KILIÇ(Student), 2020
Bolat E., BLUETOOTH DÜŞÜK ENERJİ TABANLI HASTANE TAKİP VE KONUMLANDIRMA SİSTEMİ, Post Graduate, M.SENA(Student), 2019
Bolat E., EKG İŞARETİNDEKİ ARİTMİLERİN YUMUŞAK HESAPLAMA ALGORİTMALARI KULLANILARAK SINIFLANDIRILMASI, Doctorate, Ö.YAKUT(Student), 2018
Bolat E., Mobil platform üzerinden kişisel sağlık izleme sisteminin gerçekleştirilmesi, Post Graduate, H.ŞENTÜRK(Student), 2018
Bolat E., Tabu araştırma algoritması kullanılarak robot hız denetiminin FPGA ile gerçekleştirilmesi, Post Graduate, H.ARSLAN(Student), 2018
Bolat E., Gezgiri robotların konum belirleme ve engel sakınım probleminin tek kartlı bilgisayar sistemi kullanılarak çözümü, Doctorate, S.SOLAK(Student), 2016
Bolat E., Uykuda solunum bozukluklarının teşhisi ve sınıflandırılmasının yumuşak hesaplama algoritmaları kullanılarak gerçekleştirilmesi, Doctorate, O.HAN(Student), 2015
Bolat E., Uykü evrelemede çeşitli dalgacık ve sınıflandırıcıların performans analizi, Post Graduate, E.TUNCER(Student), 2015
Bolat E., Dağınık OPC sistemlerinin internet üzerinden denetlenmesi, Post Graduate, C.ŞAHİN(Student), 2007

Jury Memberships

Appointment Academic Staff, Appointment Academic Staff, Kocaeli Üniversitesi, January, 2021
Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi, September, 2020
Associate Professor Exam, Associate Professor Exam, March, 2020
Associate Professor Exam, Associate Professor Exam, Başkent Üniversitesi, March, 2020
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Kocaeli Üniversitesi, December, 2019
Doctorate, Doctorate, Sakarya Üniversitesi, November, 2019
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Sakarya Üniversitesi, November, 2019

Associate Professor Exam, Associate Professor Exam, İnönü Üniversitesi, October, 2019
Associate Professor Exam, Associate Professor Exam, October, 2019
Associate Professor Exam, Associate Professor Exam, Başkent Üniversitesi, March, 2019
Appointment Academic Staff, Appointment Academic Staff, Kocaeli Üniversitesi, March, 2019
Associate Professor Exam, Associate Professor Exam, Yeditepe Üniversitesi, March, 2019
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Sakarya Üniversitesi, November, 2018
Doctorate, Doctorate, Sakarya Üniversitesi, November, 2018
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Kocaeli Üniversitesi, July, 2016
Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi, June, 2013

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Design and Implementation of Web-Based Virtual Mobile Robot Laboratory for Engineering Education**
SOLAK S., Yakut Ö., Bolat E. D.
SYMMETRY-BASEL, vol.12, no.6, 2020 (Journal Indexed in SCI)
- II. **An improved QRS complex detection method having low computational load**
Yakut Ö., Bolat E.
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.42, pp.230-241, 2018 (Journal Indexed in SCI)
- III. **A new hybrid stereovision-based distance-estimation approach for mobile robot platforms**
Solak S., Bolat E.
COMPUTERS & ELECTRICAL ENGINEERING, vol.67, pp.672-689, 2018 (Journal Indexed in SCI)
- IV. **k-NN-based classification of sleep apnea types using ECG**
Timus O., Dogru Bolat E.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.25, no.4, pp.3008-3023, 2017 (Journal Indexed in SCI)
- V. **Development of remote control and monitoring of web-based distributed OPC system**
Sahin C., Bolat E.
COMPUTER STANDARDS & INTERFACES, vol.31, no.5, pp.984-993, 2009 (Journal Indexed in SCI)
- VI. **DSP based implementation of current mode Fuzzy Gain Scheduling of PI Controller for single phase UPS inverter**
Bolat E.
KNOWLEDGE-BASED INTELLIGENT INFORMATION AND ENGINEERING SYSTEMS, PT 1, PROCEEDINGS, vol.4251, pp.841-849, 2006 (Journal Indexed in SCI)
- VII. **Microcontroller based temperature control of oven using different kinds of autotuning PID methods**
Bolat E., Erkan K., Postalcioglu S.
AI 2005: ADVANCES IN ARTIFICIAL INTELLIGENCE, vol.3809, pp.1295-1300, 2005 (Journal Indexed in SCI)
- VIII. **Comparison of wavenet and neuralnet for system modeling**
Postalcioglu S., Erkan K., Bolat E.
KNOWLEDGE-BASED INTELLIGENT INFORMATION AND ENGINEERING SYSTEMS, PT 2, PROCEEDINGS, vol.3682, pp.100-107, 2005 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **IMPLEMENTATION OF ANDROID BASED MOBILE APPLICATION FOR DIABETES PATIENTS**
Ural E. S. , Bolat E.
EJONS International Journal on Mathematic, Engineering and Natural Sciences , vol.17, no.5, pp.120-130, 2021 (International Refereed University Journal)

- II. **K-Means Clustering Algorithm Based Arrhythmic Heart Beat Detection in ECG Signal**
Yakut Ö., Bolat E., Efe H.
Balkan Journal of Electrical and Computer Engineering, vol.9, no.1, pp.53-58, 2021 (Refereed Journals of Other Institutions)
- III. **AN EFFICIENT ARRHYTHMIC HEARTBEAT CLASSIFICATION METHOD USING ECG MORPHOLOGY BASED FEATURES**
Yakut Ö., Bolat E.
Euroasia Journal of Mathematics, Engineering, Natural Medical Sciences International Indexed and Refereed, vol.7, no.13, pp.200-212, 2020 (Refereed Journals of Other Institutions)
- IV. **ARRHYTHMIA DIAGNOSIS FROM ECG SIGNAL USING TREE-BASED MACHINE LEARNING METHODS**
Yakut Ö., Bolat E.
EJONS International Journal on Mathematic, Engineering and Natural Sciences, vol.4, no.16, pp.954-964, 2020 (Refereed Journals of Other Institutions)
- V. **IIR Based Digital Filter Design for Denoising the ECG Signal**
Yakut Ö., Solak S., Bolat E.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.21, no.1, pp.173-181, 2018 (Journal Indexed in ESCI)
- VI. **Development of a Mobile Application Based Health Tracking System**
ŞENTÜRK H., YAKUT Ö., BOLAT E.
Global Journal of Advance Engineering Technology and Sciences, vol.5, pp.14-19, 2018 (Refereed Journals of Other Institutions)
- VII. **Yaygın Kullanılan ARM Tabanlı Tek Kart Bilgisayar Sistemleri ve Kullanım Alanları**
SOLAK S., YAKUT Ö., BOLAT E.
El-Cezeri Fen ve Mühendislik Dergisi, vol.4, 2017 (Refereed Journals of Other Institutions)
- VIII. **A Low Cost Single Board Computer Based Mobile Robot Motion Planning System for Indoor Environments**
Solak S., Bolat E., Tuncer A., Yıldırım M.
International Journal of Intelligent Systems and Applications in Engineering, vol.4, pp.95-102, 2016 (Refereed Journals of Other Institutions)
- IX. **HRV Analysis Based Arrhythmic Beat Detection using kNN Classifier**
YAKUT Ö., TİMUŞ O., BOLAT E.
World Academy Science, Engineering and Technology International Journal of Medical, Health, Biomedical, Bioengineering and Pharmaceutical Engineering, vol.10, pp.60-63, 2016 (Refereed Journals of Other Institutions)
- X. **Implementation of a Web Based Wireless ECG Measuring and Recording System**
Yakut Ö., SOLAK S., BOLAT E.
World Academy of Science, Engineering and Technology International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering, vol.9, pp.815-818, 2015 (Refereed Journals of Other Institutions)
- XI. **Discrete wavelet analysis based fault detection**
Postalcioğlu S., Erkan K., Bolat E.
WSEAS Transactions on Systems, vol.5, no.10, pp.2391-2397, 2006 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **HRV Analysis Based Arrhythmic Beat Detection using kNN Classifier**
YAKUT Ö., BOLAT E.
18th Conference on Biochemical, Bioprocess and Biomedical International Engineering, İstanbul, Türkiye, 15 - 16 Şubat 2016, cilt.18, no.2, ss.1243-1246, İstanbul, Turkey, 15 February 2016, vol.18, pp.1243-1246
- II. **Implementation of a Web-Based Wireless ECG Measuring and Recording System**
YAKUT Ö., SOLAK S., BOLAT E.
17th International Conference on Medical Physics and Medical Sciences, Istanbul Medical Physics and Medical Sciences, 9(10), 815-818, 2015., İstanbul, Turkey, 26 October 2015, vol.9, pp.815-818

III. Measuring ECG Signal Using e-Health Sensor Platform

YAKUT Ö., SOLAK S., BOLAT E.

International Conference on Chemistry, Biomedical and Environment Engineering (ICCBEE 14), Antalya, Türkiye, 7 - 08 Ekim 2014, cilt.1, ss.71-75, Antalya, Turkey, 07 October 2014, vol.1, pp.71-75

Supported Projects

BOLAT E., Project Supported by Higher Education Institutions, WEB TABANLI HASTA TAKİP SİSTEMİNİN GERÇEKLENMESİ, 2014 - 2015

Bolat E., Project Supported by Higher Education Institutions, Gezgin Robotun Yol Planlama, Konum Belirleme ve Engel Sakınma Problemlerinin Çözümü, 2013 - 2014

Scientific Refereeing

JOURNAL OF FOOD PROCESS ENGINEERING, SCI Journal, July 2018

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, SCI Journal, June 2017

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, SCI Journal, April 2017

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, SCI Journal, March 2017

Project Supported by Higher Education Institutions, BAP Research Project, Bolu Abant İzzet Baysal University, Turkey, August 2016

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, SCI Journal, April 2016

TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, PRODER YAZILIM İLETİŞİM SİSTEMLERİ TİC. A.Ş., Turkey, March 2016

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, SCI Journal, February 2016

ADVANCES IN MECHANICAL ENGINEERING, SCI Journal, December 2013

Citations

Total Citations (WOS):101

h-index (WOS):6