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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği (Dr), Turkey
1986 - 1990

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Elektrik - Elektronik Mühendisliği Bölümü, Turkey 1983 - 1985

Undergraduate, Erciyes University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1978 - 1981

Dissertations

Doctorate, Geliştirilmiş bir ultrasonik darbeli doppler kan akış ölçme düzeninde hata kaynaklarının analizi, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği (Dr), 1990

Postgraduate, Three dimensional control of machine tools by using microcomputer, Middle East Technical University, Analiz ve Fonksiyonlar Teorisi, Elektrik Ve Elektronik Mühendisliği (YI) (Tezli), 1985

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2016 - Continues

Professor, Gazi University, Teknik Eğitim Fakültesi, Elektronik ve Bilgisayar Eğitimi, 1999 - 2016

Associate Professor, Gazi University, Teknik Eğitim Fakültesi, Elektronik ve Bilgisayar Eğitimi, 1997 - 1999

Associate Professor, Kahramanmaraş Sutcu Imam University, Kahramanmaraş Vocational School, Department Of Electronics And Automation, 1993 - 1997

Assistant Professor, Kahramanmaraş Sutcu Imam University, Kahramanmaraş Vocational School, Department Of Electronics And Automation, 1993 - 1993

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Elektronik Mühendisliği Bölümü, 1991 - 1993

Lecturer, Erciyes University, Mühendislik Fakültesi, Elektronik Mühendisliği Bölümü, 1990 - 1991

Research Assistant, Erciyes University, Mühendislik Fakültesi, Elektronik Mühendisliği Bölümü, 1983 - 1990

Academic and Administrative Experience

Gazi University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, 2011 - 2014
Gazi University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, 1997 - 2011
Gazi University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, 1998 - 2009
Gazi University, Teknik Eğitim Fakültesi, 1997 - 2000
Kahramanmaraş Sutcu Imam University, Kahramanmaraş Meslek Yüksekokulu, 1993 - 1995
Erciyes University, Fizik, Elektronik Mühendisliği Bölümü, 1991 - 1992

Advising Theses

GÜLER İ., Using Hybrid Methods To Ensure The Security Of Medical Dicom Data, Postgraduate, D.BALCI(Student), 2019
GÜLER İ., Puls oksimetre senkronizasyonlu, oransal valf kontrollü ve mikrodenetleyici tabanlı bir ventilatör tasarımı ve gerçekleştirilmesi, Doctorate, A.GÖLCÜK(Student), 2017
GÜLER İ., Design And Implementation Of P300 Based Asynchronous Brain Computer Interface For Environment Control Applications, Doctorate, E.AKMAN(Student), 2015
GÜLER İ., Epileptik MRI ve EEG verileri için bulanık mantık tabanlı steganografi uygulaması, Doctorate, R.KARAKIŞ(Student), 2015
GÜLER İ., A Fuzzy Logic-Based Steganography Application For Mri And Eeg Data Of Epilepsy, Doctorate, R.Karakış(Student), 2015
GÜLER İ., Determination of mortalite risks of acute pancreatitis patients by using decision tree method, Postgraduate, Z.HİLAL(Student), 2014
GÜLER İ., Remote signal detection and processing in a wearable ecg systems, Doctorate, O.ÖZKARACA(Student), 2013
GÜLER İ., Development of smart cure and urgent medical aid system for tracking of chronic pulmonary patients with mobile communication technology, Doctorate, A.HAKAN(Student), 2012
GÜLER İ., Determination of prognosis in breast cancer patients from dna microarray analysis using genetic algorithm, Doctorate, O.YILDIZ(Student), 2012
GÜLER İ., Segmentation of brain mr images using wavelet transform and self organizing maps neural network, Doctorate, A.DEMİRHAN(Student), 2012
GÜLER İ., Thermoelektrik modüllerden oluşan bir sistemin yapay sinir ağı ile modellenmesi, Postgraduate, G.HATİCE(Student), 2011
GÜLER İ., Web site design for interactive learning objects visualization in distance education of biomedical specialists, Postgraduate, İ.İŞİK(Student), 2010
GÜLER İ., Cardiac Doppler signal analyzer and classifier system: KARDIAS, Doctorate, T.TOPAL(Student), 2010
GÜLER İ., GÜLER N. F., The transmission of ECG signal with mobile phone, Postgraduate, S.CAN(Student), 2010
GÜLER İ., Design and implementation of an algorithm against sinkhole attack in wireless sensor networks, Doctorate, M.MEGHDADİ(Student), 2010
GÜLER İ., ÇETİN A., Design and implementation of an ECG with usb interface, Postgraduate, H.BAŞAL(Student), 2010
GÜLER İ., Bluetooth ile EKG verilerinin iletimi, Postgraduate, S.ÖZCAN(Student), 2010
GÜLER İ., The design of blood pressure and body temperature measurement device, Postgraduate, H.ÖCAL(Student), 2010
GÜLER İ., GÜLER N. F., Mikrodenetleyici tabanlı e-test strip uygulaması cihazı tasarımı ve gerçekleştirilmesi, Postgraduate, B.ÇELİK(Student), 2009
GÜLER İ., Yapay sinir ağı ve lojistik regresyon yöntemleri ile meme kanseri koltuk altı lenf nodu durumunun belirlenmesi, Postgraduate, R.KARAKIŞ(Student), 2009
GÜLER İ., Ultrasonik yöntem ile dişeti kalınlığının belirlenmesi, Postgraduate, E.AKMAN(Student), 2009
GÜLER İ., Taşınabilir, düşük güçlü, 10Mhz sürekli dalga ultrasonik Doppler kan akış ölçer, Postgraduate, A.DEMİRCİ(Student), 2008
GÜLER İ., TAŞINABİLİR, DÜŞÜK GÜÇLÜ, 10MHZ SÜREKLİ DALGA ULTRASONİK DOPPLER KAN AKIŞ ÖLÇER, Postgraduate, A.DEMİRCİ(Student), 2008

GÜLER İ., Biyomedikal mühendisliğine giriş dersinin internet üzerinde tasarımı, Doctorate, Y.EZGİNCİ(Student), 2008

GÜLER İ., Kan akış hızı ölçümü için taşınabilir darbeli doppler cihazı tasarımı ve geliştirilmesi, Postgraduate, G.ÖZTÜRK(Student), 2008

GÜLER İ., Tıpta robot uygulamaları, Postgraduate, S.ÖZÇILNAK(Student), 2007

GÜLER İ., GENİS BANDLI 3 MHz ULTRASONİK DÖNÜŞTÜRÜCÜNÜN TASARIMI VE GERÇEKLEŞTİRİLMESİ, Postgraduate, C.DENİZ(Student), 2007

GÜLER İ., Geniş bantlı 3 MHz ultrasonik dönüştürücünün tasarımı ve gerçekleştirilmesi, Postgraduate, C.DENİZ(Student), 2007

GÜLER İ., Açık kaynak kodlu işletim sistemleri üzerinde paralel yük dengeleme modeli geliştirilmesi, Doctorate, D.SERAL(Student), 2006

GÜLER İ., PC tabanlı çok kanallı bir elektronik stetoskop tasarımı ve gerçekleştirilmesi, Doctorate, H.POLAT(Student), 2006

GÜLER İ., Renk yönetiminde kullanılacak dijital prova sistemleri ve monitör görüntülerindeki seçim kriterlerinin belirlenmesi, Doctorate, E.KÖSE(Student), 2006

GÜLER İ., Elektronik burun teknolojisi ve örnek uygulaması, Postgraduate, A.ALPER(Student), 2006

GÜLER İ., Bulanık adaptif medyan filtresi kullanarak tıbbi görüntülerdeki darbe gürültüsünün bastırılması, Doctorate, A.TOPRAK(Student), 2006

GÜLER İ., HARDALAÇ F., Transcranial doppler işaretlerinin yapay zeka ortamında sınıflandırılması, Doctorate, U.ERGÜN(Student), 2005

GÜLER İ., HARDALAÇ F., Kardiyak doppler işaretlerinin yapay sinir ağı ve NEFCLASS ile sınıflandırılması, Doctorate, N.BARIŞCI(Student), 2005

GÜLER İ., Muayenehane otomasyonu programı, Postgraduate, M.YAĞCI(Student), 2005

GÜLER İ., Bir bilgisayar marketinin interaktif WEB sayfası tasarımı, Postgraduate, S.ERGÜN(Student), 2004

GÜLER İ., Bulanık mantık algoritması ile beyin travma derecesinin incelenmesi, Doctorate, E.GÜLBANDILAR(Student), 2004

GÜLER İ., Biyomedikal sinyallerin işlenmesi ve görüntülenmesi için bir arayüz yazılımının gerçekleştirilmesi, Postgraduate, Ö.KAYA(Student), 2004

GÜLER İ., Klinik amaçlı deri üzerinden elektrikli kas sinir uyarıcı tasarımı ve uygulaması, Postgraduate, M.NAİLLİOĞLU(Student), 2003

GÜLER İ., Bilgisayar destekli biyomedikal mühendislik eğitimi için yazılım geliştirme, Doctorate, A.İSTANBULLU(Student), 2003

GÜLER İ., Sıcaklığı, bağıl nem oranı ve oksijen gazı konsantrasyonu mikrodenetleyici ile kontrol edilebilen bir inkübatör sistemi tasarımı ve yapımı, Doctorate, M.BURUNKAYA(Student), 2002

GÜLER İ., Teletıp yazılım uygulaması: Elektronik reçete, Postgraduate, M.ELBİSTAN(Student), 2002

GÜLER İ., Fiziksel büyüklüklerin mikrodenetleyici tabanlı sistemle ölçümü ve kontrolü, Postgraduate, H.SORGUNLU(Student), 2001

GÜLER İ., Biyomedikal enstrümantasyon laboratuvarında kullanılmak üzere PC tabanlı bir EMG-deney düzeni tasarımı ve deneylerin geliştirilmesi, Doctorate, M.RAHMİ(Student), 2001

GÜLER İ., Web teknolojileri kullanılarak veri tabanlarına erişim metodlarının incelenmesi ve uygulanması, Postgraduate, D.SERAL(Student), 2000

GÜLER İ., Uzman sistemlerin tıpta teşhis amaçlı kullanımı, Postgraduate, A.BABALIK(Student), 2000

GÜLER İ., Akıllı kartlar ile giriş çıkış uygulaması, Postgraduate, R.MURAT(Student), 1999

GÜLER İ., Scada tabanlı katodik koruma redresör terminali tasarımı ve uygulaması, Postgraduate, R.REZANEJAD(Student), 1999

GÜLER İ., Temel elektronik deney seti tasarımı ve uygulaması, Postgraduate, V.ŞAHİN(Student), 1999

GÜLER İ., Türkiye'de devlet hastanelerinde ve devlet hastaneleri arasında hasta kayıtlarının elektronik paylaşımı kullanım modeli, Doctorate, S.MÜLDÜR(Student), 1999

GÜLER İ., Led matris panonun bilgisayarla kontrolünün tasarımı, Postgraduate, M.İLKUÇAR(Student), 1999

GÜLER İ., Mikrodenetleyici kontrollü genel amaçlı bir stimülatör cihazı tasarımı ve uygulaması, Postgraduate, S.KOÇER(Student), 1998

GÜLER İ., Mikrodenetleyici kontrollü dış protezi pişirme fırını, Postgraduate, M.KAPIDERE(Student), 1998

GÜLER İ., Güç faktörünün düzeltilmesinin elektrik abonesine ve ulusal elektrik şebekesine sağlayacağı faydalar, Postgraduate, M.OTLU(Student), 1998

GÜLER İ., Bir üretim bandında üretilen malın kalite kontrolünün PLC kullanılarak gerçekleştirilmesi, Postgraduate, R.BAYIR(Student), 1998

GÜLER İ., Ultrasonik doppler analiz için yapay wigner dağılımının kullanımı, Postgraduate, N.KANGÖZ(Student), 1996

GÜLER İ., Doppler cihazı ve autoregresif spektral analiz metoduyla mitral ve triküspit kapaklardaki kan akışının incelenmesi, Doctorate, S.KARA(Student), 1994

GÜLER İ., Ultrasonik dönüştürücü, Postgraduate, S.GÜNEŞ(Student), 1993

GÜLER İ., Fizyolojik sinyallerin radyo dalgaları ile hastane içerisinde bir yerden başka bir yere iletilmesi, Postgraduate, Ö.KODAZ(Student), 1993

GÜLER İ., Sığırlarda erken gebelik teşhisinde kullanılan metodlar ve doppler ultrasonik kan akış ölçme tekniği, Postgraduate, E.TUNA(Student), 1993

GÜLER İ., Elektromagnetik indüksiyonla kan akışının ölçülmesi, Postgraduate, Ş.GÖKDERE(Student), 1993

GÜLER İ., Ultrasonik zaman domeni tekniğinde hassasiyet analizi ve diğer tekniklerle karşılaştırılması, Postgraduate, H.BAKIRCI(Student), 1993

GÜLER İ., Sporcular üzerinde O₂ tüketiminin belirlenmesi, Postgraduate, O.SÖYLER(Student), 1993

GÜLER İ., Darbeli doppler kan akış ölçüm sisteminin tasarımı, Postgraduate, Y.EZGİNCİ(Student), 1993

GÜLER İ., Metroloji ve kalibrasyon, Doctorate, M.ALKAN(Student), 1993

GÜLER İ., Disk şeklindeki ince piezoelektrik plakalar kullanılarak gerçekleştirilen geniş bantlı ultrasonik dönüştürücü tasarımı, Doctorate, Ş.ERGÜN(Student), 1992

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Using of Oxygen Species in the Sterilization of Medical Equipment and Assessment of the Test Results**
Atalay H. O. U., GÜLER İ.
JOURNAL OF PHARMACEUTICAL INNOVATION, vol.18, no.3, pp.1476-1486, 2023 (SCI-Expanded)
- II. **Designing and application of a new medical instrument sterilization system using reactive oxygen species**
Ulkuatas H. O., Özçelik B., Güler İ.
REVIEW OF SCIENTIFIC INSTRUMENTS, vol.92, no.11, 2021 (SCI-Expanded)
- III. **The Use of Stepper Motor-Controlled Proportional Valve for Fio(2) Calculation in the Ventilator and its Control with Fuzzy Logic**
Golcuk A., GÜLER İ.
JOURNAL OF MEDICAL SYSTEMS, vol.41, no.1, 2017 (SCI-Expanded)
- IV. **Design and Construction of a Microcontroller-Based Ventilator Synchronized with Pulse Oximeter**
Goluck A., IŞIK H., GÜLER İ.
JOURNAL OF MEDICAL SYSTEMS, vol.40, no.7, 2016 (SCI-Expanded)
- V. **A novel fuzzy logic-based image steganography method to ensure medical data security**
Karalcis R., Guler J., Capraz İ., Bilir E.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.67, pp.172-183, 2015 (SCI-Expanded)
- VI. **A genetic algorithm model based on artificial neural network for prediction of the axillary lymph node status in breast cancer**
KARAKIŞ R., Tez M., Kilic Y. A., Kuru Y., Guler İ.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.26, no.3, pp.945-950, 2013 (SCI-Expanded)
- VII. **A Low-Cost Mobile Adaptive Tracking System for Chronic Pulmonary Patients in Home Environment**
Isik A. H., GÜLER İ., Sener M. U.
TELEMEDICINE AND E-HEALTH, vol.19, no.1, pp.24-30, 2013 (SCI-Expanded)
- VIII. **Effects of radiation emitted from mobile phones on short- term heart rate variability parameters**
YILDIZ M., YILMAZ D., GÜLER İ., AKGÜLLÜ Ç.

ANATOLIAN JOURNAL OF CARDIOLOGY, vol.12, no.5, pp.406-412, 2012 (SCI-Expanded)

- IX. **Pulse Oximeter Based Mobile Biotelemetry Application**
Isik A. H., GÜLER İ.
ANNUAL REVIEW OF CYBERTHERAPY AND TELEMEDICINE 2012: ADVANCED TECHNOLOGIES IN THE BEHAVIORAL, SOCIAL AND NEUROSCIENCES, vol.181, pp.197-201, 2012 (SCI-Expanded)
- X. **A Survey of Wormhole-based Attacks and their Countermeasures in Wireless Sensor Networks**
Meghdadi M., Ozdemir S., Gueler İ.
IETE TECHNICAL REVIEW, vol.28, no.2, pp.89-102, 2011 (SCI-Expanded)
- XI. **Combining stationary wavelet transform and self-organizing maps for brain MR image segmentation**
DEMİRHAN A., Gueler İ.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.24, no.2, pp.358-367, 2011 (SCI-Expanded)
- XII. **A survey on application of quantitative methods on analysis of brain parameters changing with temperature**
DEMİRHAN A., Kaymaz M., AHISKA R., GÜLER İ.
Journal of Medical Systems, vol.34, no.6, pp.1059-1071, 2010 (SCI-Expanded)
- XIII. **Design of a Cervical Collar Device to Facilitate and Accelerate Implementation of First Aid**
IŞIK H., Saracoglu E., Harmanci H., GÜLER İ.
JOURNAL OF MEDICAL SYSTEMS, vol.34, no.4, pp.573-578, 2010 (SCI-Expanded)
- XIV. **IMAGE SEGMENTATION USING SELF-ORGANIZING MAPS AND GRAY LEVEL CO-OCCURRENCE MATRICES**
DEMİRHAN A., GÜLER İ.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.25, no.2, pp.285-291, 2010 (SCI-Expanded)
- XV. **DESIGN OF PIC-CONTROLLED PULSED ULTRASONIC TRANSMITTER FOR MEASURING GINGIVA THICKNESS**
AKMAN AYDIN E., GÜLER İ.
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.38, no.6, pp.411-420, 2010 (SCI-Expanded)
- XVI. **Evaluating of traumatic brain injuries using artificial neural networks**
GÜLER İ., Gokcil Z., GÜLBANDILAR E.
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.7, pp.10424-10427, 2009 (SCI-Expanded)
- XVII. **Interpretation of MR images using self-organizing maps and knowledge-based expert systems**
Gueler İ., DEMİRHAN A., KARAKIŞ R.
DIGITAL SIGNAL PROCESSING, vol.19, no.4, pp.668-677, 2009 (SCI-Expanded)
- XVIII. **Design and Realization of a Microcontroller Based E-Test Strip Application Device**
Celik B., GÜLER N. F., GÜLER İ.
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.37, no.6, pp.676-682, 2009 (SCI-Expanded)
- XIX. **The investigation of effects of digital proofing systems used in colour management on print quality with neural networks**
KÖSE E., Sahinbaskan T., GÜLER İ.
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.1, pp.745-754, 2009 (SCI-Expanded)
- XX. **A different approach to off-line handwritten signature verification using the optimal dynamic time warping algorithm**
GÜLER İ., Meghdadi M.
DIGITAL SIGNAL PROCESSING, vol.18, no.6, pp.940-950, 2008 (SCI-Expanded)
- XXI. **Angiograph image restoration with the use of rule base fuzzy 2D Kalman filter**
Toprak A., Gueler İ.
EXPERT SYSTEMS WITH APPLICATIONS, vol.35, no.4, pp.1752-1761, 2008 (SCI-Expanded)
- XXII. **Control of a thermoelectric brain cooler by adaptive neuro-fuzzy inference system**
Ahiska R., Yavuz A. H., Kaymaz M., Guler İ.
Instrumentation Science and Technology, vol.36, no.6, pp.636-655, 2008 (SCI-Expanded)
- XXIII. **Software development for the analysis of heartbeat sounds with LabVIEW in diagnosis of**

cardiovascular disease

Topal T., POLAT H., GÜLER İ.

JOURNAL OF MEDICAL SYSTEMS, vol.32, no.5, pp.409-421, 2008 (SCI-Expanded)

- XXIV. **MR images restoration with the use of fuzzy filter having adaptive membership parameters**
Guler İ., Toprak A., Demirhan A., Karakış R.
JOURNAL OF MEDICAL SYSTEMS, vol.32, no.3, pp.229-234, 2008 (SCI-Expanded)
- XXV. **Suppression of impulse noise in MR images using artificial intelligent based neuro-fuzzy adaptive median filter**
Toprak A., ÖZERDEM M. S., GÜLER İ.
DIGITAL SIGNAL PROCESSING, vol.18, no.3, pp.391-405, 2008 (SCI-Expanded)
- XXVI. **Design of fuzzy logic controlled thermoelectric renal hypothermia system**
IŞIK H., Sargoglu E., GÜLER İ.
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.36, no.3, pp.310-322, 2008 (SCI-Expanded)
- XXVII. **Detecting variabilities of Doppler ultrasound signals by a modified mixture of experts with diverse features**
ÜBEYLİ E. D., GÜLER İ.
DIGITAL SIGNAL PROCESSING, vol.18, no.2, pp.267-279, 2008 (SCI-Expanded)
- XXVIII. **Detection of traumatic brain injuries using fuzzy logic algorithm**
GÜLER İ., Tunca A., GÜLBANDILAR E.
EXPERT SYSTEMS WITH APPLICATIONS, vol.34, no.2, pp.1312-1317, 2008 (SCI-Expanded)
- XXIX. **Design and construction of a microcontroller based transcranial magnetic stimulator**
Burunkaya M., Guler İ.
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.36, no.1, pp.32-42, 2008 (SCI-Expanded)
- XXX. **Impulse noise reduction in medical images with the use of switch mode fuzzy adaptive median filter**
Toprak A., Gueler İ.
DIGITAL SIGNAL PROCESSING, vol.17, no.4, pp.711-723, 2007 (SCI-Expanded)
- XXXI. **Implementing wavelet/probabilistic neural networks for Doppler ultrasound blood flow signals**
Guler İ., Ubeyli E. D.
EXPERT SYSTEMS WITH APPLICATIONS, vol.33, no.1, pp.162-170, 2007 (SCI-Expanded)
- XXXII. **Expert systems for time-varying biomedical signals using eigenvector methods**
Gueler İ., Uebeyli E. D.
EXPERT SYSTEMS WITH APPLICATIONS, vol.32, no.4, pp.1045-1058, 2007 (SCI-Expanded)
- XXXIII. **Features extracted by eigenvector methods for detecting variability of EEG signals**
Ubeyli E. D., Guler İ.
PATTERN RECOGNITION LETTERS, vol.28, no.5, pp.592-603, 2007 (SCI-Expanded)
- XXXIV. **Multiclass support vector machines for EEG-signals classification**
Guler İ., Ubeyli E. D.
IEEE TRANSACTIONS ON INFORMATION TECHNOLOGY IN BIOMEDICINE, vol.11, no.2, pp.117-126, 2007 (SCI-Expanded)
- XXXV. **Performance analysis of classical, model-based and eigenvector methods: Ophthalmic arterial disorders detection case**
Ubeyli E. D., Guler İ.
COMPUTERS & ELECTRICAL ENGINEERING, vol.33, no.1, pp.30-47, 2007 (SCI-Expanded)
- XXXVI. **MATLAB toolboxes: Teaching feature extraction from time-varying biomedical signals**
Ubeyli E. D., Guler İ.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.14, no.4, pp.321-332, 2007 (SCI-Expanded)
- XXXVII. **Suppression of impulse noise in medical images with the use of fuzzy adaptive median filter**
Toprak A., Güler İ.
Journal of Medical Systems, vol.30, no.6, pp.465-471, 2006 (SCI-Expanded)
- XXXVIII. **Adaptive neuro-fuzzy inference system to compute quasi-TEM characteristic parameters of microshield lines with practical cavity sidewall profiles**

- Ubeyli E. D., Guler İ.
NEUROCOMPUTING, vol.70, pp.296-304, 2006 (SCI-Expanded)
- XXXIX. **Automated diagnostic systems with diverse and composite features for Doppler ultrasound signals**
Guler İ., Ubeyli E. D.
IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, vol.53, no.10, pp.1934-1942, 2006 (SCI-Expanded)
- XL. **A recurrent neural network classifier for Doppler ultrasound blood flow signals**
Guler İ., Ubeyli E. D.
PATTERN RECOGNITION LETTERS, vol.27, no.13, pp.1560-1571, 2006 (SCI-Expanded)
- XLI. **A microcontroller based, low cost oxygen gas controller for medical purposes**
Burunkaya M., Guler İ.
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.34, no.5, pp.509-527, 2006 (SCI-Expanded)
- XLII. **Combined neural network model to compute wavelet coefficients**
Guler İ., Ubeyli E.
EXPERT SYSTEMS, vol.23, no.3, pp.159-173, 2006 (SCI-Expanded)
- XLIII. **Analysis of Doppler ultrasound signals based on fuzzy similarity index**
Guler İ., Ubeyli E.
EXPERT SYSTEMS WITH APPLICATIONS, vol.31, no.1, pp.130-136, 2006 (SCI-Expanded)
- XLIV. **Wavelet-based neural network analysis of internal carotid arterial doppler signals**
Übeyli E. D., GÜLER İ.
Journal of Medical Systems, vol.30, no.3, pp.221-229, 2006 (SCI-Expanded)
- XLV. **Diabetes diagnosis by multilayer perceptron neural networks Çok katmanli perseptron sinir ağırları ile diyabet hastalığının teşhisi**
GÜLER İ., Übeyli E. D.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.21, no.2, pp.319-326, 2006 (SCI-Expanded)
- XLVI. **Feature saliency using signal-to-noise ratios in automated diagnostic systems developed for Doppler ultrasound signals**
Guler İ., Ubeyli E.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.19, no.1, pp.53-63, 2006 (SCI-Expanded)
- XLVII. **Neural network analysis of ophthalmic arterial doppler signals with Uveitis disease**
Guler İ., Ubeyli E.
NEURAL COMPUTING & APPLICATIONS, vol.14, no.4, pp.353-360, 2005 (SCI-Expanded)
- XLVIII. **Feature extraction from Doppler ultrasound signals for automated diagnostic systems**
Ubeyli E., Guler İ.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.35, no.9, pp.735-764, 2005 (SCI-Expanded)
- XLIX. **Recurrent neural networks employing Lyapunov exponents for EEG signals classification**
Guler N., Ubeyli E., Guler İ.
EXPERT SYSTEMS WITH APPLICATIONS, vol.29, no.3, pp.506-514, 2005 (SCI-Expanded)
- L. **Comparison of STFT and wavelet transform methods in determining epileptic seizure activity in EEG signals for real-time application**
Kiyimik M., Guler İ., Dizibuyuk A., Akin M.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.35, no.7, pp.603-616, 2005 (SCI-Expanded)
- LI. **Adaptive neuro-fuzzy inference system for classification of EEG signals using wavelet coefficients**
Guler İ., Ubeyli E.
JOURNAL OF NEUROSCIENCE METHODS, vol.148, no.2, pp.113-121, 2005 (SCI-Expanded)
- LII. **A new microcontroller-based human brain hypothermia system**
Kapidere M., AHISKA R., GÜLER İ.
Journal of Medical Systems, vol.29, no.5, pp.501-512, 2005 (SCI-Expanded)
- LIII. **Adaptive neuro-fuzzy inference systems for analysis of internal carotid arterial Doppler signals**
Ubeyli E., Guler İ.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.35, no.8, pp.687-702, 2005 (SCI-Expanded)

- LIV. **A mixture of experts network structure for modelling Doppler ultrasound blood flow signals**
Guler İ., Ubeyli E.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.35, no.7, pp.565-582, 2005 (SCI-Expanded)
- LIV. **A modified mixture of experts network structure for ECG beats classification with diverse features**
Guler İ., Ubeyli E.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.18, no.7, pp.845-856, 2005 (SCI-Expanded)
- LVI. **Improving medical diagnostic accuracy of ultrasound Doppler signals by combining neural network models**
Ubeyli E., Guler İ.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.35, no.6, pp.533-554, 2005 (SCI-Expanded)
- LVII. **Determining variability of ophthalmic arterial Doppler signals using Lyapunov exponents**
Ubeyli E., Guler İ.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.35, no.5, pp.405-420, 2005 (SCI-Expanded)
- LVIII. **Automatic detection of erythematous-squamous diseases using adaptive neuro-fuzzy inference systems**
Ubeyli E., Guler İ.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.35, no.5, pp.421-433, 2005 (SCI-Expanded)
- LIX. **Automatic detection of ophthalmic artery stenosis using the adaptive neuro-fuzzy inference system**
Guler İ., Ubeyli E.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.18, no.4, pp.413-422, 2005 (SCI-Expanded)
- LX. **An expert system for detection of electrocardiographic changes in patients with partial epilepsy using wavelet-based neural networks**
Guler İ., Ubeyli E.
EXPERT SYSTEMS, vol.22, no.2, pp.62-71, 2005 (SCI-Expanded)
- LXI. **Adaptive neuro-fuzzy inference system for gap discontinuities in coplanar waveguides**
Guler İ., Ubeyli E.
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.92, no.3, pp.173-188, 2005 (SCI-Expanded)
- LXII. **ECG beat classifier designed by combined neural network model**
Guler İ., Ubeyli E.
PATTERN RECOGNITION, vol.38, no.2, pp.199-208, 2005 (SCI-Expanded)
- LXIII. **Detection of ophthalmic arterial doppler signals with Behcet disease using multilayer perceptron neural network**
Guler İ., Ubeyli E.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.35, no.2, pp.121-132, 2005 (SCI-Expanded)
- LXIV. **Feature saliency using signal-to-noise ratios in automated diagnostic systems developed for ECG beats**
Guler İ., Ubeyli E.
EXPERT SYSTEMS WITH APPLICATIONS, vol.28, no.2, pp.295-304, 2005 (SCI-Expanded)
- LXV. **Teaching automated diagnostic systems for Doppler ultrasound blood flow signals to biomedical engineering students using MATLAB**
Ubeyli E., Guler İ.
INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION, vol.21, no.4, pp.649-667, 2005 (SCI-Expanded)
- LXVI. **Classification of aorta insufficiency and stenosis using neuro-fuzzy system**
BARIŞCI N., Topal E., Hardalaç F., GÜLER İ.
Journal of Medical Systems, vol.29, no.2, pp.155-165, 2005 (SCI-Expanded)
- LXVII. **A new test method and system for the measurement of Z-parameter of standard peltier modules**
Standart Termoelektrik Modülün Z Parametresinin Ölçülmesi İçin Yeni Yöntem ve Yeni Sistem
Ahıska R., Cıylan B., Savaş Y., Güler İ.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.19, no.4, pp.467-473, 2004 (SCI-Expanded)
- LXVIII. **Feature extraction for diagnostic systems by usage of AR and ARMA methods: Ophthalmic arterial Doppler signals case study AR ve ARMA metotlarının kullanımı ile teşhis sistemleri için öznelik**

Çıkarma: Oftalmik atardamar Doppler işaretleri nin durum analizi

Übeyli E. D., GÜLER İ.

Journal of the Faculty of Engineering and Architecture of Gazi University, vol.19, no.4, pp.405-413, 2004 (SCI-Expanded)

- LXIX. **Classification of the frequency of carotid artery stenosis with MLP and RBF neural networks in patients with coroner artery disease**
Yıldırım H., Altınsoy H. B., Barıpcı N., Ergün U., Oğur E., Hardalaç F., GÜLER İ.
Journal of Medical Systems, vol.28, no.6, pp.591-601, 2004 (SCI-Expanded)
- LXX. **Multilayer perceptron neural networks to compute quasistatic parameters of asymmetric coplanar waveguides**
Ubeyli E., Guler İ.
NEUROCOMPUTING, vol.62, pp.349-365, 2004 (SCI-Expanded)
- LXXI. **Detecting variability of internal carotid arterial Doppler signals by Lyapunov exponents**
Guler İ., Ubeyli E.
MEDICAL ENGINEERING & PHYSICS, vol.26, no.9, pp.763-771, 2004 (SCI-Expanded)
- LXXII. **Application of adaptive neuro-fuzzy inference system for detection of electrocardiographic changes in patients with partial epilepsy using feature extraction**
Guler İ., Ubeyli E.
EXPERT SYSTEMS WITH APPLICATIONS, vol.27, no.3, pp.323-330, 2004 (SCI-Expanded)
- LXXIII. **Classification of mitral insufficiency and stenosis using MLP neural network and neuro-fuzzy system**
Barıpcı N., Ergün U., Ilkay E., Serhatlıoğlu S., Hardalaç F., GÜLER İ.
Journal of Medical Systems, vol.28, no.5, pp.423-436, 2004 (SCI-Expanded)
- LXXIV. **Selection of optimal AR spectral estimation method for internal carotid arterial Doppler signals using Cramer-Rao bound**
Ubeyli E., Guler İ.
COMPUTERS & ELECTRICAL ENGINEERING, vol.30, no.7, pp.491-508, 2004 (SCI-Expanded)
- LXXV. **Multimedia based medical instrumentation course in biomedical engineering**
Istanbul A., GÜLER İ.
Journal of Medical Systems, vol.28, no.5, pp.447-454, 2004 (SCI-Expanded)
- LXXVI. **Detection of electrocardiographic changes in partial epileptic patients using Lyapunov exponents with multilayer perceptron neural networks**
Ubeyli E., Guler İ.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.17, no.6, pp.567-576, 2004 (SCI-Expanded)
- LXXVII. **Classification of carotid artery stenosis of patients with diabetes by neural network and logistic regression**
Ergun U., Serhatlioglu S., Hardalac F., Guler İ.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.34, no.5, pp.389-405, 2004 (SCI-Expanded)
- LXXVIII. **Spectral broadening of ophthalmic arterial Doppler signals using STFT and wavelet transform**
Ubeyli E., Guler İ.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.34, no.4, pp.345-354, 2004 (SCI-Expanded)
- LXXIX. **Spectral analysis of internal carotid arterial Doppler signals using FFT, AR, MA, and ARMA methods**
Ubeyli E., Guler İ.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.34, no.4, pp.293-306, 2004 (SCI-Expanded)
- LXXX. **Classification of aorta doppler signals using variable coded-hierarchical genetic fuzzy system**
Guler İ., Hardalac F., Ergun E., BARIŞCI N.
EXPERT SYSTEMS WITH APPLICATIONS, vol.26, no.3, pp.321-333, 2004 (SCI-Expanded)
- LXXXI. **A neurofuzzy classification system for the effects of diabetes mellitus on ophthalmic artery**
Serhatlioğlu S., Hardalaç F., Kiriş A., Özdemir H., Yılmaz T., GÜLER İ.
Journal of Medical Systems, vol.28, no.1, pp.167-176, 2004 (SCI-Expanded)
- LXXXII. **Comparison of eigenvector methods with classical and model-based methods in analysis of internal carotid arterial Doppler signals**

- Ubeyli E., Guler İ.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.33, no.6, pp.473-493, 2003 (SCI-Expanded)
- LXXXIII. **Application of classical and model-based spectral methods to ophthalmic arterial Doppler signals with uveitis disease**
Guler İ., Ubeyli E.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.33, no.6, pp.455-471, 2003 (SCI-Expanded)
- LXXXIV. **Neurofuzzy Classification of the Effect of Diabetes Mellitus on Carotid Artery**
Serhatlioglu S., Bozgeyik Z., Ozkan Y., Hardalac F., GÜLER İ.
Journal of Medical Systems, vol.27, no.5, pp.457-464, 2003 (SCI-Expanded)
- LXXXV. **Neural network analysis of internal carotid arterial Doppler signals: predictions of stenosis and occlusion**
Ubeyli E., Guler İ.
EXPERT SYSTEMS WITH APPLICATIONS, vol.25, no.1, pp.1-13, 2003 (SCI-Expanded)
- LXXXVI. **Detection of ophthalmic artery stenosis by least-mean squares backpropagation neural network**
Guler İ., Ubeyli E.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.33, no.4, pp.333-343, 2003 (SCI-Expanded)
- LXXXVII. **Determination of Coronary Failure with the Application of FFT and AR Methods**
Serhatlioglu S., Burma O., Hardalac F., GÜLER İ.
Journal of Medical Systems, vol.27, no.2, pp.121-131, 2003 (SCI-Expanded)
- LXXXVIII. **Determination of Stenosis and Occlusion in Arteries With the Application of FFT, AR, and ARMA Methods**
Übeyli E. D., GÜLER İ.
Journal of Medical Systems, vol.27, no.2, pp.105-120, 2003 (SCI-Expanded)
- LXXXIX. **Application of FFT and arma spectral analysis to arterial doppler signals**
Übeyli E. D., Işık H., GÜLER İ.
Mathematical and Computational Applications, vol.8, pp.311-318, 2003 (SCI-Expanded)
- XC. **Comparison of FFT and adaptive ARMA methods in transcranial Doppler signals recorded from the cerebral vessels**
Guler İ., Hardalac F., Kaymaz M.
Computers in Biology and Medicine, vol.32, no.6, pp.445-453, 2002 (SCI-Expanded)
- XCI. **Application of FFT analyzed cardiac Doppler signals to fuzzy algorithm**
Guler İ., Hardalac F., BARIŞCI N.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.32, no.6, pp.435-444, 2002 (SCI-Expanded)
- XCII. **Determination of Behcet disease with the application of FFT and AR methods**
Guler İ., Hardalac F., Ubeyli E.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.32, no.6, pp.419-434, 2002 (SCI-Expanded)
- XCIII. **Humidity control of an incubator using the microcontroller-based active humidifier system employing an ultrasonic nebulizer**
GÜLER İ., BURUNKAYA M.
Journal of Medical Engineering and Technology, vol.26, no.2, pp.82-88, 2002 (SCI-Expanded)
- XCIV. **A model approach to sharing electronic medical records between and within the state hospitals in Turkey**
Guler İ., Muldur S.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.31, no.6, pp.513-523, 2001 (SCI-Expanded)
- XCV. **AR spectral analysis of EEG signals by using maximum likelihood estimation**
Guler İ., Kiyimik M., Akin M., Alkan A.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.31, no.6, pp.441-450, 2001 (SCI-Expanded)
- XCVI. **Determination of aorta failure with the application of FFT, AR and wavelet methods to Doppler technique**
Guler İ., Hardalac F., Muldur S.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.31, no.4, pp.229-238, 2001 (SCI-Expanded)

- XCVII. Control of dental prosthesis system with microcontroller**
Kapidere M., Müldür S., GÜLER İ.
Journal of Medical Systems, vol.24, no.2, pp.119-129, 2000 (SCI-Expanded)
- XCVIII. Remote control of microcontroller-based infant stimulating system**
BURUNKAYA M., GÜLER İ.
Journal of Medical Systems, vol.24, no.2, pp.131-140, 2000 (SCI-Expanded)
- XCIX. Design of low-cost general purpose microcontroller based neuromuscular stimulator**
Koçer S., Canal M. R., GÜLER İ.
Journal of Medical Systems, vol.24, no.2, pp.91-101, 2000 (SCI-Expanded)
- C. A Pascal-based decision support system model for diagnosis and treatment processes in urology**
Müldür S., GÜLER İ.
Journal of Medical Systems, vol.23, no.5, pp.357-361, 1999 (SCI-Expanded)
- CI. Tissue blood flow assessment of pulsed Doppler ultrasound using autoregressive modeling**
BAY Ö. F., GÜLER İ.
Journal of Medical Systems, vol.23, no.1, pp.77-81, 1999 (SCI-Expanded)
- CII. Smart cards: A specific application in the hospital**
GÜLER İ., Zengin R. M., Sönmez M.
Journal of Medical Systems, vol.22, no.6, pp.405-419, 1998 (SCI-Expanded)
- CIII. Construction and testing of ultrasound broadband transducers for blood flow sensing**
ALTIPARMAK D., GÜLER İ.
Journal of Medical Systems, vol.22, no.4, pp.279-285, 1998 (SCI-Expanded)
- CIV. Design parameters of pulsed wave ultrasonic Doppler blood flowmeter**
GÜLER İ., Savaş Y.
Journal of Medical Systems, vol.22, no.4, pp.273-278, 1998 (SCI-Expanded)
- CV. Quantization errors of the echoes in ultrasonic pulsed flowmeter employing time domain correlation**
GÜLER İ., Savaş Y.
Journal of Medical Systems, vol.21, no.5, pp.267-274, 1997 (SCI-Expanded)
- CVI. Ultrasound imaging based on multiple beamforming with coded excitation**
Kiyimik M., Guler İ., Hasekioglu O., Karaman M.
SIGNAL PROCESSING, vol.58, no.1, pp.107-113, 1997 (SCI-Expanded)
- CVII. A low-cost biotelemetry system for long time monitoring of physiological data**
Güler I., Kara S.
Journal of Medical Systems, vol.20, no.3, pp.151-156, 1996 (SCI-Expanded)
- CVIII. Order determination in autoregressive modeling of diastolic heart sounds**
Güler I., Kiyimik M. K., Güler N. F.
Journal of Medical Systems, vol.20, no.1, pp.11-17, 1996 (SCI-Expanded)
- CIX. Application of autoregressive and fast Fourier transform spectral analysis to tricuspid and mitral valve stenosis**
Guler İ., Kara S., Guler N., Kiyimik M.
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.49, no.1, pp.29-36, 1996 (SCI-Expanded)
- CX. COMPARISON OF FFT-BASED AND AR-BASED SONOGRAM OUTPUTS OF 20 MHZ PULSED DOPPLER DATA IN REAL-TIME**
GULER N., KIYMIK M., GULER İ.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.25, no.4, pp.383-391, 1995 (SCI-Expanded)
- CXI. AUTOREGRESSIVE-BASED SONOGRAM OUTPUTS OF 20 MHZ PULSED DOPPLER DATA**
GULER N., KIYMIK M., GULER İ.
MEDICAL PROGRESS THROUGH TECHNOLOGY, vol.21, no.2, pp.105-110, 1995 (SCI-Expanded)
- CXII. APPLICATION OF AUTOREGRESSIVE ANALYSIS TO 20 MHZ PULSED DOPPLER DATA IN REAL-TIME**
GULER İ., KIYMIK M., KARA S., YUKSEL M.
INTERNATIONAL JOURNAL OF BIO-MEDICAL COMPUTING, vol.31, pp.247-256, 1992 (SCI-Expanded)
- CXIII. THE ELECTRONIC DETAIL OF A PULSED DOPPLER BLOOD-FLOW MEASUREMENT SYSTEM**

GÜLER İ., GÜLER N.

MEASUREMENT SCIENCE AND TECHNOLOGY, vol.1, no.10, pp.1087-1092, 1990 (SCI-Expanded)

Articles Published in Other Journals

- I. **Tıbbi DICOM Veri Güvenliğinde Hibrit Yöntemlerin Kullanılması**
BALCI D., KARAKIŞ R., GÜLER İ.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.8, no.2, pp.1295-1306, 2020 (Peer-Reviewed Journal)
- II. **DENOISING AND REMOTE MONITORING OF ECG SIGNAL WITH REAL-TIME EXTENDED KALMAN FILTER IN A WEARABLE SYSTEM**
ÖZKARACA O., GÜLER İ.
BIOMEDICAL ENGINEERING-APPLICATIONS BASIS COMMUNICATIONS, vol.27, no.1, 2015 (ESCI)
- III. **Development of mobile tracking system for diabetes and recent patents on diabetes mellitus**
Işık A. H., GÜLER İ.
Recent Patents on Engineering, vol.7, no.2, pp.140-147, 2013 (Scopus)
- IV. **Farksal Yalıtılmış EKG Tasarımı ve Uygulaması**
TÜRKER G. F., GÜLER İ.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.16, no.3, pp.264-268, 2012 (Peer-Reviewed Journal)
- V. **Microcontroller based passive elbow and knee rehabilitation instrument design**
ÖZKARACA O., IŞIK A. H., GÜLER İ.
AWER Procedia Information Technology Computer Science, vol.1, no.1, pp.1176-1179, 2012 (Non Peer-Reviewed Journal)
- VI. **Recent patents on ultrasound thickness measurements in medicine**
Aydın E. A., GÜLER İ.
Recent Patents on Engineering, vol.5, no.3, pp.241-244, 2011 (Scopus)
- VII. **Bilişim ve Sağlık**
DEMİRHAN A., GÜLER İ.
Bilişim Teknolojileri Dergisi, vol.4, no.3, pp.13-20, 2011 (Peer-Reviewed Journal)
- VIII. **Recent Advances on Body Heat Powered Medical Devices**
AKMAN AYDIN E., GÜLER İ.
Recent Patents on Biomedical Engineering, vol.4, no.1, pp.33-37, 2011 (Peer-Reviewed Journal)
- IX. **EEG Source Localization Using a Genetic Algorithm Based Artificial Neural Network**
KARAKIŞ R., ÇAPRAZ İ., BİLİR E., GÜLER İ.
Recent Patents on Biomedical Engineering, vol.6, pp.188-194, 2011 (Peer-Reviewed Journal)
- X. **Biological signals sensing with wearable technologies and an ECG athlete design**
Özkaraca O., Işık A. H., GÜLER İ.
Recent Patents on Biomedical Engineering, vol.4, no.2, pp.74-83, 2011 (Scopus)
- XI. **Tıpta Yapay Zeka Uygulamaları**
DEMİRHAN A., KILIÇ Y. A., GÜLER İ.
Yoğun Bakım Dergisi, vol.9, no.1, pp.31-41, 2010 (Peer-Reviewed Journal)
- XII. **Biyomedikal Mühendisliğinde Uzaktan Eğitim Çalışmaları**
AKMAN AYDIN E., GÜLER İ.
Bilişim Teknolojileri Dergisi, vol.1, no.2, pp.47-52, 2008 (Peer-Reviewed Journal)
- XIII. **IMPLEMENTING COMBINED NEURAL NETWORK MODEL FOR BREASTCANCER DIAGNOSIS**
ÜBEYLİ E. D., GÜLER İ.
Bulletin of the International Scientific Surgical Association, vol.1, no.2, pp.26-28, 2006 (Non Peer-Reviewed Journal)
- XIV. **Combining Neural Network and Genetic Algorithm for Prediction of Lung Sounds**
GÜLER İ., POLAT H., ERGÜN U.

- Journal Of Medical Systems, vol.29, no.3, pp.217-231, 2005 (Scopus)
- XV. **A Simple Computer-Based Measurement and Analysis System of Pulmonary Auscultation Sounds**
POLAT H., GÜLER İ.
Journal Of Medical Systems, vol.28, no.6, pp.665-672, 2004 (Scopus)
- XVI. **Standart termoelektrik modülün Z parametresinin ölçülmesi için yeni yöntem ve yeni sistem**
AHISKA R., CİYLAN B., SAVAŞ Y., GÜLER İ.
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.19, no.4, pp.467-473, 2004 (Scopus)
- XVII. **Classification of MCA Stenosis in Diabetes by MLP and RBF Neural Network**
ERGÜN U., BARIŞCI N., A TEVFIK O., SERHATLIOĞLU S., OĞUR E., HARDALAÇ F., GÜLER İ.
Journal of Medical Systems, no.28, pp.475, 2004 (Scopus)
- XVIII. **The examination of the effects of obesity on a number of arteries and body mass index by using expert systems**
HARDALAÇ F., OZAN A., BARIŞCI N., ERGÜN U., SERHATLIOĞLU S., GÜLER İ.
Journal of Medical Systems, no.28, pp.129, 2004 (Scopus)
- XIX. **Classification of Transcranial Doppler signals using artificial neural network**
SERHATLIOĞLU S., HARDALAÇ F., GÜLER İ.
Journal of Medical Systems, vol.27, no.2, pp.205-214, 2003 (Scopus)
- XX. **CRAMER-RAO ALT SINIRI İLE AR METODUNDA PARAMETRE KESTİRİMPERFORMANSININ ANALİZİ**
ÜBEYLİ E. D., GÜLER İ.
Politeknik Dergisi, vol.5, no.1, pp.1-11, 2002 (Peer-Reviewed Journal)
- XXI. **Termoelektrik soğutucunun özelliklerinin araştırılması**
AHISKA R., GÜLER İ., SAVAŞ Y.
Politeknik Dergisi, vol.2, no.3, pp.89-94, 1999 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Medical Data Security in Cryptographic and Information Security**
Güler İ., Karakış R.
in: Cryptographic and Information Security Approaches for Images and Videos , S. Ramakrishnan, Editor, Taylor eBookstore , New York, pp.629-662, 2019
- II. **Evaluation of Biotelemetry Systems and Novel Proposal for Chronic Diseases Management**
Güler İ., Işık A. H.
in: Emerging Issues in the Natural and Applied Sciences, J. Jafarov,A. Alimoglu, Editor, LLC, Baku, pp.5-19, 2011
- III. **Spectral Analysis Techniques in the Detection of Coronary Artery Stenosis**
Güler İ., Übeyli E. D.
in: Biomechanical Systems Technology Vol 4, Cornelius T. Leondes, Editor, Scientific Publishers, Inc., London, pp.217-271, 2007
- IV. **Elektronik Devre Elemanları ve Devre Deneyleri I**
GÜLER İ., SAVAŞ Y., CANAL M. R., DEMİREL H., CİYLAN B.
Gazi, 2001

Refereed Congress / Symposium Publications in Proceedings

- I. **A New Method of Medical Equipment Sterilization Tıbbi Ekipman Sterilizasyonunda Yeni Bir Yöntem**
Ülkütaş Atalay H. Ö., ÖZÇELİK B., GÜLER İ.
2022 Medical Technologies Congress, TIPTEKNO 2022, Antalya, Turkey, 31 October - 02 November 2022
- II. **Effect of Noise Reduction on CNN Classification of OCT Images OCT Görüntülerinin CNN ile Sınıflandırılmasında Gürültü Azaltımının Etkisi**
Kodaloğlu G., GÜLER İ.

2022 Medical Technologies Congress, TIPTEKNO 2022, Antalya, Turkey, 31 October - 02 November 2022

- III. **Digital Signal Processing in Biomedical Engineering**
GÜLER İ.
ROWS'xx20 Virtual International Conference, Kerala, India, 02 December 2020, vol.1, pp.27
- IV. **Lisanssız Yazılım Kullanımı ve Farkındalık**
Simsek B. S., GÜLER İ.
5h International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2021, Ankara, Turkey, 21 - 23 October 2021, pp.243-245
- V. **Steganalysis on Medical Images with Support Vector Machine**
KARAKIŞ R., GÜLER İ.
2020 28th Signal Processing and Communications Applications Conference (SIU), Gaziantep, Turkey, Turkey, 5 - 07 October 2020, vol.28, pp.1-4
- VI. **Hibrit Yöntemlerle Medikal Görüntülerin Güvenliğinin Sağlanması Üzerine Araştırma**
BALCI D., KARAKIŞ R., GÜLER İ.
INTERNATIONAL CONGRESS on ENGINEERING and ARCHITECTURE, Alanya, Turkey, 14 - 16 November 2018, pp.882-889
- VII. **Travmatik Beyin Yaralanmasının Uyarlamalı Ağ Tabanlı Bulanık Çıkarım Sistemi Kullanılarak Sınıflandırılması**
GÜLBANDILAR E., AKYOL S., GÜLBANDILAR A., GÜLER İ.
International Congress on Engineering and Architecture, Antalya, Turkey, 14 - 16 November 2018, pp.1250-1260
- VIII. **Increasing Quality of Services with Priority Active Package Management**
Orman A., ELMAS Ç., GÜLER İ.
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Kizilcahamam, Turkey, 19 - 21 October 2018, pp.136-141
- IX. **Analysis of Asynchronous Brain Computer Interface Using Discrete Wavelet Transform**
AKMAN AYDIN E., BAY Ö. F., GÜLER İ.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- X. **Image Steganography Tool for Different Images Types**
KARAKIŞ R., GÜLER İ.
The 8th International Advanced Technologies Symposium (IATS'17), Elazığ, Turkey, 19 - 22 October 2017, pp.2333-2339
- XI. **Survival Analysis of Gastric Cancer Patients by Pattern Recognition Techniques**
KARAKIŞ R., GÜNDOĞDU S. B., TEZ M., GÜLER İ.
The 8th International Advanced Technologies Symposium (IATS'17), Elazığ, Turkey, 19 - 22 October 2017, pp.2326-2332
- XII. **Evaluating of traumatic brain injuries using adaptive network-based fuzzy inference systems**
GÜLBANDILAR E., ÖZMEN S., GÜLBANDILAR A., GÜLER İ.
International Congress on Applied Science and Technology (ASTECH 2017), Malaga, Spain, 17 - 20 April 2017, pp.21
- XIII. **Comparison of P300 Based Synchronous and Asynchronous Brain Computer Interface**
AKMAN AYDIN E., BAY Ö. F., GÜLER İ.
Medical Technologies National Congress (TIPTEKNO), Trabzon, Turkey, 12 - 14 October 2017
- XIV. **A Dynamic Stopping Algorithm for P300 Based Brain Computer Interface Systems**
AKMAN AYDIN E., BAY Ö. F., GÜLER İ.
International Conference on Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBIH), Sarajevo, Bosnia And Herzegovina, 16 - 18 March 2017, vol.62, pp.723-728
- XV. **Mühendislik Eğitimi**
GÜLER İ.
International Engineering Science and Education Conference, 1 - 03 December 2016
- XVI. **A visual Stimulus Module for P300 Based brain Computer Interfaces**
AKMAN AYDIN E., GÜLER İ.

- International Conference on Advanced Technology & Sciences, 1 - 03 September 2016, pp.1315-1320
- XVII. **Medikal Görüntülerin Güvenliği için Bulanık Mantık Tabanlı Steganografi Yöntemi**
KARAKIŞ R., ÇAPRAZ İ., BİLİR E., GÜLER İ.
IEEE 23. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Malatya, Turkey, 16 - 19 May 2015, pp.272-275
- XVIII. **P300 Olaya İlişkin Potansiyellerin Ayrık Dalgacık Dönüşümü ile Sınıflandırılması**
AKMAN AYDIN E., BAY Ö. F., GÜLER İ.
23rd Signal Processing and Communications Applications Conference, 16 - 19 May 2015
- XIX. **Medikal Sinyaller için Benzerlik Tabanlı Görüntü Steganografi Uygulaması**
KARAKIŞ R., GÜLER İ., ÇAPRAZ İ., BİLİR E.
XVII. Akademik Bilisim Konferansı, Turkey, 4 - 06 February 2015
- XX. **Classification of P300 Event Related Potentials with Discrete Wavelet Transform**
AKMAN AYDIN E., BAY Ö. F., GÜLER İ.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1200-1203
- XXI. **Region Based Brain Computer Interface for A Home Control Application**
AKMAN AYDIN E., BAY Ö. F., GÜLER İ.
37th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Milan, Italy, 25 - 29 August 2015, pp.1075-1078
- XXII. **A New Method of Fuzzy Logic-Based Steganography for the Security of Medical Images**
KARAKIŞ R., Capraz I., Bilir E., GÜLER İ.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.272-275
- XXIII. **AN APPLICATION OF FUZZY LOGIC-BASED IMAGE STEGANOGRAPHY**
KARAKIŞ R., GÜLER İ.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.156-159
- XXIV. **AUTOMATIC SEGMENTATION OF TUMOR, EDEMA AND HEALTHY TISSUES OF BRAIN USING NEURO FUZZY INFERENCE SYSTEM**
DEMİRHAN A., GÜLER İ.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.120-123
- XXV. **Feature Selection in Pulmonary Function Test Data with Machine Learning Methods**
Karakis R., GÜLER İ., IŞIK A. H.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XXVI. **Effectiveness and Usability of Multimedia Materials on Biomedical Instrumentation Education**
AKMAN AYDIN E., IŞIK A. H., GÜLER İ.
2nd International Engineering Education Conference, 31 October - 03 November 2012
- XXVII. **Gene selection for breast cancer Meme kanseri siniflandirmasi için gen seçimi**
YILDIZ O., Tez M., BİLGE H. Ş., AKCAYOL M. A., GÜLER N. F.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Turkey, 18 - 20 April 2012
- XXVIII. **Comprehensive comparison of traditional and distance learning master programs**
Isik A. H., GÜLER İ.
2nd World Conference on Learning, Teaching and Educational Leadership (WCLTA), İstanbul, Turkey, 28 - 30 October 2011, vol.31, pp.120-123
- XXIX. **Detection, real time processing and monitoring of ECG signal with a wearable system**
Özkaraca O., Işık A. H., GÜLER İ.
2011 International Symposium on INnovations in Intelligent SysTems and Applications, INISTA 2011, Istanbul-Kadikoy, Turkey, 15 - 18 June 2011, pp.424-427
- XXX. **Classification the axillary lymph node status of breast cancer patients with the analysis of pattern recognition Meme kanseri hastalarının koltuk altı lenf nod durumunun Örüntü tanıma analiz**

teknikleri ile sınıflandırılması

Karakış R., Tez M., GÜLER İ.

2011 IEEE 19th Signal Processing and Communications Applications Conference, SIU 2011, Antalya, Turkey, 20 - 22 April 2011, pp.988-991

- XXXI. **Medical devices technology teacher's aspects to web-based vocational in-service training**
Kaymak M. N., Pakyürek Ö., ÇETİN A., GÜLER İ.
IADIS International Conference e-Learning 2010, Part of the IADIS Multi Conference on Computer Science and Information Systems 2010, MCCSIS 2010, Freiburg, Germany, 26 - 29 July 2010, vol.1, pp.243-250
- XXXII. **A WEB3D Application in Biomedical Engineering Education**
AKMAN AYDIN E., IŞIK A. H., ÇETİN A., GÜLER İ.
Interactive Computer Aided Learning-ICL2010, 15 - 17 September 2010, pp.190-194
- XXXIII. **Beyin MR Görüntülerinin Analizi için Dalgacık Dönüşümü ve Sinir Ağlarının Kullanılması**
DEMİRHAN A., GÜLER İ.
18. Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU 10), Diyarbakir, Turkey, Turkey, 22 - 24 April 2010, pp.933-936
- XXXIV. **Microcontroller controlled ECG simulator**
DEMİR B. E., YORULMAZ F., GÜLER İ.
2010 15th National Biomedical Engineering Meeting, Antalya, Turkey, 21 - 24 April 2010
- XXXV. **Postgraduate students' attitudes towards distance learning (The case study of Gazi University)**
Isik A. H., KARAKIŞ R., Gueler İ.
1st World Conference on Learning, Teaching and Administration (WCLTA), Cairo, Egypt, 29 - 31 October 2010, vol.9
- XXXVI. **BULANIK UYARLAMALI ORTALAMA FİLTRESİ KULLANARAK MRGÖRÜNTÜLERİNDEKİ DARBE GÜRÜLTÜSÜNÜN BASTIRILMASI**
TOPRAK A., GÜLER İ.
5. Uluslararası İleri Teknolojiler Sempozyumu (IATS'09), Turkey, 13 - 15 May 2009, vol.1
- XXXVII. **Pic Kontrollü Kardiyoverter Tasarımı**
AKMAN AYDIN E., FİDAN U., GÜLER İ.
Biyomedikal Mühendisliği Ulusal Toplantısı, Turkey, 22 - 23 May 2007, pp.179-183
- XXXVIII. **Statistics over Lyapunov Exponents for Feature Extraction: Electroencephalographic Changes Detection Case**
Uebeyli E. D., Gueler İ.
Conference of the World-Academy-of-Science-Engineering-and-Technology, Berlin, Germany, 19 - 21 January 2005, vol.2, pp.129-132
- XXXIX. **Eigenvector methods for automated detection of time-varying biomedical signals**
Guler İ., Uebeyli E. D.
ICSC Congress on Computational Intelligence Methods and Applications, İstanbul, Turkey, 15 - 17 December 2005, pp.1-6
- XL. **Combined neural network model employing Lyapunov exponents: Internal carotid arterial disorders detection case**
Guler N. F., Uebeyli E. D., Guler İ.
27th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society, Shanghai, China, 31 August - 03 September 2005, pp.4564-4567
- XLI. **A mixture of experts network structure for EEG signals classification**
Guler İ., Uebeyli E. D., Guler N. F.
27th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society, Shanghai, China, 31 August - 03 September 2005, pp.2707-2710
- XLII. **Usage of information technologies in medicine: A model developed for diabetes education via telemedicine**
Uebeyli E., Guler N., Guler İ.
International Conference on Education and Information Systems - Technologies and Application, Florida, United

States Of America, 21 - 25 July 2004, pp.131-136

- XLIII. **Comparison of FFT, AR and wavelet methods in transcranial Doppler signal obtain from intracerebral vessels**
Guler İ., Hardalac F., Erol F.
23rd Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society, İstanbul, Turkey, 25 - 28 October 2001, vol.23, pp.1832-1834
- XLIV. **Mikrodenetleyici Tabanlı Ultrasonik Nebulizatör Kullanılan Bir Aktif Nemlendirme Sistemi Tasarımı**
BURUNKAYA M., GÜLER İ.
ELECO 2000, Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu, Turkey, 01 January 2000
- XLV. **Bir İnkübatörün Nem Oranının Mikrodenetleyici Tabanlı Ultrasonik Nebulizatör Kullanılan Bir Aktif Nemlendirme Sistemi İle Kontrol Edilmesi**
BURUNKAYA M., GÜLER İ.
BİYOMUT 2000, Biyomedikal Mühendisliği Ulusal Toplantısı, İstanbul, Turkey, 01 January 2000
- XLVI. **Detection of mitral stenosis by a pulsed Doppler flowmeter and autoregressive spectral analysis method**
Guler İ., Kara S.
1st Regional Conference of the IEEE Engineering-in-Medicine-and-Biology-Society/14th Conference of the Biomedical-Engineering-Society-of-India, New Delhi, India, 15 - 18 February 1995, pp.221-222
- XLVII. **Measurement of carotid doppler spectra using autoregressive spectrum analyzer**
Güler İ., Kara S., YÜKSEL M. E.
1992 International Biomedical Engineering Days, IBED 1992, İstanbul, Turkey, 18 - 20 August 1992, pp.117-121
- XLVIII. **Axial ultrasonic blood flow velocity by the minimum variance flow**
Guler N. F., Guler İ.
Proceedings of the 12th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Philadelphia, PA, USA, 1 - 04 November 1990, pp.312-313
- XLIX. **Construction and matching of ultrasonic transducer for pulsed Doppler blood flowmeter**
Guler I., Guler N. F.
Proceedings of the 12th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Philadelphia, PA, USA, 1 - 04 November 1990, pp.320-321
- L. **Method determining the Doppler angle in pulsed Doppler flowmeters**
Guler İ.
Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, New Orleans, LA, USA, 4 - 07 November 1988, vol.10, pp.227-228
- LI. **Novel method for the measurement of flow direction in pulsed Doppler systems**
Guler İ.
Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, New Orleans, LA, USA, 4 - 07 November 1988, vol.10, pp.236-237
- LII. **A METHOD DETERMINING THE DOPPLER ANGLE IN PULSED DOPPLER FLOWMETERS**
GULER İ.
1989 ANNUAL INTERNATIONAL CONF OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOC : IMAGES OF THE TWENTY-FIRST CENTURY, Washington, United States Of America, 9 - 12 November 1989, pp.227-228
- LIII. **A NOVEL METHOD FOR THE MEASUREMENT OF FLOW DIRECTION IN PULSED DOPPLER SYSTEMS**
GULER İ.
1989 ANNUAL INTERNATIONAL CONF OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOC : IMAGES OF THE TWENTY-FIRST CENTURY, Washington, United States Of America, 9 - 12 November 1989, pp.236-237

Supported Projects

GÜLER İ., Project Supported by Higher Education Institutions, Beyin Fonksiyonlarının Oluştığı Yerlerin İmge Çakıştırma ve Örüntü Tanıma Teknikleri ile fMRG İmgelerinden Belirlenmesi, 2012 - 2013

GÜLER İ., Project Supported by Higher Education Institutions, Diyabet hastalarının mobil takibi ve acil durum müdahalesi için karar destek sistemi geliştirilmesi, 2012 - 2013

GÜLER İ., Project Supported by Higher Education Institutions, Kronik Akciğer Hastalarının Mobil İletişim Teknoloji İle Takibi İçin Zeki Bakım ve Acil Tıbbi Yardım Sistemi Geliştirilmesi, 2010 - 2011

GÜLER İ., Project Supported by Higher Education Institutions, Giyilebilir Bir EKG Sisteminde Uzaktan Sinyalin Algılanması ve İşlenmesi, 2010 - 2011

GÜLER İ., Project Supported by Higher Education Institutions, Beyin MR Görüntülerinin Dalgacık Dönüşümü ve Özöğütlemeli Harita Ağları Kullanılarak Bölütlenmesi, 2009 - 2010

GÜLER İ., Project Supported by Higher Education Institutions, Mikrodenetleyici Tabanlı Termohipoterm Soğutucu Başlık Tasarımı, Geliştirilmesi ve Travma Geçirmiş Beyin Parametrelerinin Sıcaklıkla Değişiminin Belirlenmesinde Uygulanması, 2007 - 2010

GÜLER İ., Project Supported by Higher Education Institutions, LabVIEW Programlama Dili Kullanılarak Spektral Analiz Yöntemlerinin Kan Akış İşaretlerine Gerçek Zamanlı Uygulanması, 2007 - 2008

GÜLER İ., Project Supported by Higher Education Institutions, MR Görüntülerinin Bilgi Tabanlı Yapay Zeka Teknikleri Kullanılarak Yorumlanması, 2007 - 2008

GÜLER İ., Project Supported by Higher Education Institutions, Bulanık Mantık Kural Tabanlı Adaptif Medyan Filtresinin Kullanımı ile Manyetik Rezonans Görüntülerinde Gürültü Bastırma, 2006 - 2007

GÜLER İ., Project Supported by Higher Education Institutions, Epilepsi Hastalarının Elektrokardiyogramlarındaki Değişmelerin Teşhisi için Dalgacık Dönüşüm Tabanlı Uzman Sistem Gerleştirilmesi, 2005 - 2006

GÜLER İ., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, BİYOMEDİKAL İŞARETLER SAYISAL İŞARET İŞLEME GÖRÜNTÜ İŞLEME..., 2004 - 2006

GÜLER İ., Project Supported by Higher Education Institutions, Teşhis Sistemleri İçin Ultrasonik Doppler Kan Akış İşaretlerinden Özellik Çıkarımı, 2004 - 2005

GÜLER İ., Project Supported by Higher Education Institutions, İç Karotid Atardamar Doppler İşaretlerinin Spektral Analizi, 2003 - 2004

GÜLER İ., Project Supported by Higher Education Institutions, Ultrasonik Doopler Kan Akış İşaretlerinin İşlenmesi, 2002 - 2003

GÜLER İ., Project Supported by Higher Education Institutions, Bir inkübatörün iç ortam sıcaklığının 0,05 C hassasiyetinde kontrol edilmesi, 2001 - 2002

GÜLER İ., Project Supported by Higher Education Institutions, Sıcaklığa bağlı nem oranı ve oksijen gazı konsantrasyonu ölçülebilen ve kontrol edilebilen incubator (küvez), 2000 - 2001

Metrics

Publication: 198

Citation (WoS): 3227

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H-Index (Scopus): 32