Prof. Tamer Ölmez

Personal Information

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Biography

TAMER ÖLMEZ was born in Istanbul, Turkey in 1964. He received the B.Sc. degree in **Electronics and Communication Engineering** in 1985, the M.Sc. degree in **Computer and Control Engineering** in 1988, and Ph.D. degree in **Biomedical Engineering** in 1995, from Istanbul Technical University, Türkiye.

Between 1985-1988 he worked as a **research engineer at TELETAŞ** Türkiye. Until the end of 1989 he worked at **The Scientific and Technical Research Council of Türkiye (TÜBİTAK)** as a research engineer working on the acquisition and processing of remotely sensed images. Since then he has been with the **Department of Electrical and Electronics Engineering** at **Istanbul Technical University**, Türkiye, where at present he is a professor.

His current research interests are Biomedical, Bioinformatics, Medical Informatics, Biological signal processing, Image processing, Neural networks, Genetic algorithms, Pattern recognition, Machine learning, Embedded System Design by Linux OS/ FPGA/ DSP/Microcontrollers, Design of data acquisition systems, Android and Internet applications by using QT developer, Computer vision and Virtual reality.

Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Biyomedikal Mühendisliği Anabilim Dalı, Turkey 1991 - 1995
Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Yl) (Tezli), Turkey 1985 - 1988
Undergraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 1981 - 1985

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Yapay Sinir Ağları ile Manyetik Rezonans Görüntülerin Sınıflandırılması, İstanbul Teknik Üniversitesi, Elektrik-Elektronik, Elektronik Ve Haberleşme Müh., 1995
Postgraduate, TMS32010 Sayısal İşaret İşlemci ile DTMF Alıcısı Tasarımı , İstanbul Teknik Üniversitesi, Elektrik-Elektronik, Bilgisayar Ve Kontrol Mühendisliği, 1989

Research Areas

Computer Sciences, bioinformatics, Biocomputing, Artificial Intelligence, Computer Learning and Pattern Recognition, Computer Learning, Human Computer Interaction, Pattern Recognition and Image Processing, Neural Networks, Biomedical Engineering, Bioengineering and MEMS, Bioinstrumentation and Microelectromechanical Systems (MEMS), Biomedical Image Processing, Biomedical Image Processing, Biosignal Processing, Biosignal Processing, Telemedicine, Electrical and Electronics Engineering, Electronic, Electronic Circuits, Engineering and Technology

Academic Titles / Tasks

Professor, 2003 - Continues
Associate Professor, 1997 - 2003
Assistant Professor, 1995 - 1997

Courses

Biyolojik İşaretlerin Oluşumu ve Algılama Yöntemleri, Undergraduate, 2017 - 2018
Mikroişlemsi sistemleri, Undergraduate, 2016 - 2017
Biyolojik İşaretlerin Oluşumu ve Algılama Yöntemleri, Undergraduate, 2016 - 2017
Mikroişlemci sistemleri, Undergraduate, 2016 - 2017
Tıbbi Enstrumantasyon, Tasarım ve Uygulamaları, Undergraduate, 2016 - 2017

Advising Theses

Ölmez T., Classification methods for motor imagery based brain computer interfaces, Doctorate, A.Yüksel(Student), 2016
Ölmez T., Solunum sesleri yardımıyla uyku apnesinin tespit edilmesi, Postgraduate, B.Doğan(Student), 2016
Ölmez T., Artificial intelligence based methods for the solution of protein folding problem by using coarse-grained lattice and off-lattice models, Doctorate, B.Doğan(Student), 2015
Ölmez T., Sınıf içi ve sınıflar arası saçılmaya duyarlı ortak uzamsal örüntüler ile motor hareket hayalinin tanınması, Postgraduate, M.Emre(Student), 2015
Ölmez T., Kablosuz iletişim kullanılarak kalp seslerinin gerçek zamanda depolanması, görüntülenmesi ve analizi, Postgraduate, C.Ovacık(Student), 2014
Ölmez T., Kütle spektrometresi verilerinin analiziyle prostat ve yumurtalık kanserlerinin belirlenmesi, Postgraduate, V.Taşkın(Student), 2013
Ölmez T., Monitoring of cardio rhythm with accelerometer (Accelero-Cardio-Gram-ACG) over wireless body area network, Postgraduate, H.Basri(Student), 2011
Ölmez T., Yakın kızılaltı spektroskopisinde beyin dışı biyolojik dokulardan gelen bozucu etkilerin giderilmesi, Postgraduate, R.Umut(Student), 2010
Ölmez T., Elektroensefalografi ile anestezi ve sedasyon düzeyinin ilinti boyutu ve dalgacık faz uyumu analizi, Postgraduate, B.Cebeci(Student), 2009
Ölmez T., Fonksiyonel manyetik rezonans görüntüleme ile eş zamanlı kaydedilen elektroensefalogram üzerinde oluşan artefaktların giderilmesi, Postgraduate, B.Erdoğan(Student), 2009
Ölmez T., X-ışını el görüntülerinde kemik dokusunun bölütlenmesi, Postgraduate, A.Yüksel(Student), 2008

Ölmez T., Elektrokardiyogram işaretlerinin sıkıştırılması, Postgraduate, M.Kaya(Student), 2006
Ölmez T., Artımsal yapay sinir ağları kullanılarak ultrasonik görüntülerin bölütlenmesi, Doctorate, M.Nadir(Student), 2006
Ölmez T., Yapay sinir ağları kullanarak ultrasonik görüntülerde dokuların bölütlenmesi, Postgraduate, Z.İşcan(Student), 2005
Ölmez T., Biyomedikal görüntülerin dalgacık dönüşümü ile sıkıştırılması, Postgraduate, A.Katkar(Student), 2002
Ölmez T., Yapay sinir ağları ve genetik algoritmalar kullanılarak EKG vurularının sınıflandırılması, Doctorate, Z.Dokur(Student), 2000
Ölmez T., Gevşeme temelli kenar belirleme algoritması, Postgraduate, G.Güngör(Student), 1998

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Generating ten BCI commands using four simple motor imageries and classification by divergence-based DNN**
Korhan N., Ölmez T., Dokur Z.
NEURAL COMPUTING & APPLICATIONS, vol.35, pp.1303-1322, 2023 (SCI-Expanded)

II. **Brain tumor classification by using a novel convolutional neural network structure**
POLAT Ö., Dokur Z., Ölmez T.
INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY, vol.32, no.5, pp.1646-1660, 2022 (SCI-Expanded)

III. **Neurological effects of long-term diet on obese and overweight individuals: An electroencephalogram and event-related potential study**
Ammar Ali M., ozogur-Akyuz S., DURU A. D., Caliskan M., Demir C., Bostanci T., Elsallak F., Shkokani M., Dokur Z., Ölmez T., et al.
COMPUTATIONAL INTELLIGENCE, vol.38, no.3, pp.1163-1182, 2022 (SCI-Expanded)

IV. **Classification of motor imagery electroencephalogram signals by using a divergence based convolutional neural network**
Dokur Z., Ölmez T.
APPLIED SOFT COMPUTING, vol.113, 2021 (SCI-Expanded)

V. **Deep learning based classification of unsegmented phonocardiogram spectrograms leveraging transfer learning**
Khan K. N., Khan F. A., Abid A., Ölmez T., Dokur Z., Khandakar A., Chowdhury M. E. H., Khan M. S.
PHYSIOLOGICAL MEASUREMENT, vol.42, no.9, 2021 (SCI-Expanded)

VI. **Determination of Pneumonia in X-ray Chest Images by Using Convolutional Neural Network**
POLAT Ö., Dokur Z., Ölmez T.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.29, no.3, pp.1615-1627, 2021 (SCI-Expanded)

VII. **Heartbeat classification by using a convolutional neural network trained with Walsh functions**
Dokur Z., Ölmez T.
NEURAL COMPUTING & APPLICATIONS, vol.32, no.16, pp.12515-12534, 2020 (SCI-Expanded)

VIII. **Detection of BGA solder defects from X-ray images using deep neural network**
Akdeniz C. T., Dokur Z., Ölmez T.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.4, pp.2020-2029, 2020 (SCI-Expanded)

IX. **Comparative analysis of MABC with KNN, SOM, and ACO algorithms for ECG heartbeat classification**
DİLMAÇ S., DOKUR Z., Ölmez T.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.6, pp.2819-2830, 2018 (SCI-Expanded)

X. **Filter Bank Common Spatio-Spectral Patterns for Motor Imagery Classification**
Yüksel A., Ölmez T.

Lecture Notes In Computer Science, no.9832, pp.69-84, 2016 (SCI-Expanded)

XI. **A Neural Network-Based Optimal Spatial Filter Design Method for Motor Imagery Classification**
Yuksel A., Ölmez T.
PLOS ONE, vol.10, no.5, 2015 (SCI-Expanded)

XII. **A new metaheuristic for numerical function optimization: Vortex Search algorithm**
Dogan B., Ölmez T.
INFORMATION SCIENCES, vol.293, pp.125-145, 2015 (SCI-Expanded)

XIII. **Vortex search algorithm for the analog active filter component selection problem**
Dogan B., Ölmez T.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.69, no.9, pp.1243-1253, 2015 (SCI-Expanded)

XIV. **A novel state space representation for the solution of 2D-HP protein folding problem using reinforcement learning methods**
Dogan B., Ölmez T.
APPLIED SOFT COMPUTING, vol.26, pp.213-223, 2015 (SCI-Expanded)

XV. **Dimension reduction by a novel unified scheme using divergence analysis and genetic search**
Korurek M., YUKSEL A., DOKUR Z., Ölmez T.
DIGITAL SIGNAL PROCESSING, vol.20, no.6, pp.1535-1546, 2010 (SCI-Expanded)

XVI. **Tumor detection by using Zernike moments on segmented magnetic resonance brain images**
Iscan Z., DOKUR Z., OELMEZ T.
EXPERT SYSTEMS WITH APPLICATIONS, vol.37, no.3, pp.2540-2549, 2010 (SCI-Expanded)

XVII. **Retrospective correction of near field effect of X-ray source in radiographic images by using genetic algorithms**
Koruerek M., YUEKSEL A., ISCAN Z., DOKUR Z., OELMEZ T.
EXPERT SYSTEMS WITH APPLICATIONS, vol.37, no.3, pp.1946-1954, 2010 (SCI-Expanded)

XVIII. **Medical image segmentation with transform and moment based features and incremental supervised neural network**
Iscan Z., YUKSEL A., DOKUR Z., KORUREK M., Ölmez T.
DIGITAL SIGNAL PROCESSING, vol.19, no.5, pp.890-901, 2009 (SCI-Expanded)

XIX. **Feature determination for heart sounds based on divergence analysis**
Dokur Z., Ölmez T.
DIGITAL SIGNAL PROCESSING, vol.19, no.3, pp.521-531, 2009 (SCI-Expanded)

XX. **Heart sound classification using wavelet transform and incremental self-organizing map**
Dokur Z., OLMER T.
DIGITAL SIGNAL PROCESSING, vol.18, no.6, pp.951-959, 2008 (SCI-Expanded)

XXI. **Tissue segmentation in ultrasound images by using genetic algorithms**
Dokur Z., Ölmez T.
EXPERT SYSTEMS WITH APPLICATIONS, vol.34, no.4, pp.2739-2746, 2008 (SCI-Expanded)

XXII. **An incremental neural network for tissue segmentation in ultrasound images**
Kurnaz M. N., DOKUR Z., Olmez T.
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.85, no.3, pp.187-195, 2007 (SCI-Expanded)

XXIII. **Segmentation of medical images by using wavelet transform and incremental self organizing map**
Ölmez T.
Lecture Notes in Artificial Intelligence, vol.0, pp.800-809, 2006 (SCI-Expanded)

XXIV. **Segmentation of remote-sensing images by incremental neural network**
Kurnaz M., DOKUR Z., Olmez T.
PATTERN RECOGNITION LETTERS, vol.26, no.8, pp.1096-1104, 2005 (SCI-Expanded)

XXV. **Classification of respiratory sounds by using an artificial neural network**
Dokur Z., Olmez T.
INTERNATIONAL JOURNAL OF PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE, vol.17, no.4, pp.567-580, 2003 (SCI-Expanded)

XXVI. **Segmentation of MR and CT images by using a quantiser neural network**
Dokur Z., Olmez T.
NEURAL COMPUTING & APPLICATIONS, vol.11, pp.168-177, 2003 (SCI-Expanded)

XXVII. **Application of InP neural network to ECG beat classification**
Olmez T., Dokur Z.
NEURAL COMPUTING & APPLICATIONS, vol.11, pp.144-155, 2003 (SCI-Expanded)

XXVIII. **Classification of heart sounds using an artificial neural network**
Olmez T., DOKUR Z.
PATTERN RECOGNITION LETTERS, vol.24, pp.617-629, 2003 (SCI-Expanded)

XXIX. **Segmentation of ultrasound images by using a hybrid neural network**
Dokur Z., Olmez T.
PATTERN RECOGNITION LETTERS, vol.23, no.14, pp.1825-1836, 2002 (SCI-Expanded)

XXX. **Recursive form of the discrete Fourier transform for two dimensional signals**
Ölmez T.
Lecture Notes in Computer Science LNCS, vol.0, pp.551-556, 2002 (SCI-Expanded)

XXXI. **ECG beat classification by a novel hybrid neural network**
Dokur Z., Olmez T.
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.66, pp.167-181, 2001 (SCI-Expanded)

XXXII. **Comparison of discrete wavelet and Fourier transforms for ECG beat classification**
Dokur Z., Olmez T., YAZGAN E.
ELECTRONICS LETTERS, vol.35, no.18, pp.1502-1504, 1999 (SCI-Expanded)

XXXIII. **Detection of ECG waveforms by neural networks**
Dokur Z., OLMEZ T., YAZGAN E., ERSOY O.
MEDICAL ENGINEERING & PHYSICS, vol.19, no.8, pp.738-741, 1997 (SCI-Expanded)

XXXIV. **Classification of ECG waveforms by using RCE neural network and genetic algorithms**
Ölmez T.
ELECTRONICS LETTERS, vol.33, no.18, pp.1561-1562, 1997 (SCI-Expanded)

XXXV. **A multilayer incremental neural network architecture for classification**
Ölmez T.
NEURAL PROCESSING LETTERS, vol.2, no.2, pp.5-9, 1995 (SCI-Expanded)

XXXVI. **Optimized competitive feature vector network**
Ölmez T.
ELECTRONICS LETTERS, vol.30, no.24, pp.2052-2053, 1994 (SCI-Expanded)

XXXVII. **Modified restricted Coulomb energy neural network**
Ölmez T.
ELECTRONICS LETTERS, vol.29, no.22, pp.1963-1965, 1993 (SCI-Expanded)

Articles Published in Other Journals

I. **Classification of left and right hand motor imagery EEG signals by using deep neural networks**
Korhan N., Abilzade L., Ölmez T., Ölmez Z.
International Journal of Applied Mathematics Electronics and Computers, vol.9, no.4, pp.85-90, 2021 (Peer-Reviewed Journal)

II. **Classification of left and right hand motor imagery EEG signals by using deep neural networks**
Abilzade L., KORHAN N., dokur z., ÖLMEZ T.
International Journal of Applied Mathematics Electronics and Computers, vol.9, 2021 (Peer-Reviewed Journal)

III. **Pneumonia Detection and Classification Using Deep Learning on Chest X-Ray Images**
DARICI M. B., DOKUR Z., ÖLMEZ T.
International Journal of Intelligent Systems and Applications in Engineering, vol.8, no.4, pp.177-183, 2020 (Scopus)

IV. **Prostate Cancer Classification from Mass Spectrometry Data by Using Wavelet Analysis and Kernel**

Partial Least Squares Algorithm
ÖLMEZ T.
International Journal of Bioscience, Biochemistry and Bioinformatics, vol.3, no.2, pp.98-102, 2013 (Peer-Reviewed Journal)

V. **A method for computer assisted 3D reconstruction of coronary arteries using angiography images**
ÖLMEZ T.
Damar Cerrahi Dergisi, vol.18, no.1, pp.41-47, 2009 (Peer-Reviewed Journal)

VI. **Improved incremental self organizing map for the segmentation of ultrasound images**
ÖLMEZ T.
Mathematical Methods in Engineering, pp.293-302, 2007 (Peer-Reviewed Journal)

VII. **Ultrasound image segmentation by using wavelet transform and self organizing neural network**
ÖLMEZ T.
Neural Information Processing - Letters and Reviews, vol.10, pp.183-191, 2006 (Peer-Reviewed Journal)

VIII. **Segmentation of remote sensing images by the grow and learn network**
ÖLMEZ T.
Turkish Journal of Telecommunications TJT, vol.1, no.2, pp.67-72, 2002 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Improved incremental self-organizing map for the segmentation of ultrasound images**
İşcan Z., Ölmez Z., Ölmez T.
in: Mathematical Methods in Engineering, Tas, K., Tenreiro Machado, J.A., Baleanu, D. (Eds.) , Editor, Springer-Verlag , Amsterdam, pp.293-302, 2007

Refereed Congress / Symposium Publications in Proceedings

I. **Detection of Covid-19 in Chest X-ray Image by Using Convolutional Network Trained with Walsh Functions**
Kılıç M. N. T., ÖLMEZ T.
World Conference on Innovation in Technology and Engineering Sciences, atina, Greece, 03 December 2021

II. **Voice Command Recognition for Drone Control by Deep Neural Networks on Embedded System**
Yapicioglu C., Dokur Z., Ölmez T.
8th International Conference on Electrical and Electronics Engineering (ICEEE), Antalya, Turkey, 9 - 11 April 2021, pp.65-72

III. **Classification of Left and Right Hand Motor Imagery EEG Signals by Using Deep Neural Networks**
ABİLZADE L., KORHAN N., ÖLMEZ T., DOKUR Z.
9th International Conference on Advanced Technologies ICAT 2020, İstanbul, Turkey, 10 - 12 August 2020

IV. **A Comparison of Hough Transform and Deep Neural Network Methods on Road Segmentation**
Mutluoğlu S. E., ÖLMEZ T.
International Symposium on Multidisciplinary Studies and Innovative Technologies, 11 - 13 October 2019

V. **X-Ray Chest Image Classification by A Small-Sized Convolutional Neural Network**
Ölmez T.
2019 Scientific Meeting on Electrical-Electronics and Biomedical Engineering and Computer Science, EBBT 2019, İstanbul, Turkey, 24 - 26 April 2019, vol.1, no.1, pp.1-2

VI. **Fuzzy Local Information C-means Algorithm for Histopathological Image Segmentation**
Cetin M., Dokur Z., Ölmez T.
International Scientific Meeting on Electrical-Electronics and Biomedical Engineering and Computer Science (EBBT), İstanbul, Turkey, 24 - 26 April 2019

VII. **Motor Imagery Based EEG Classification by Using Common Spatial Patterns and Convolutional Neural**

Networks
Korhan N., Dokur Z., Ölmez T.
International Scientific Meeting on Electrical-Electronics and Biomedical Engineering and Computer Science (EBBT), İstanbul, Turkey, 24 - 26 April 2019

VIII. **X-Ray Chest Image Classification by A Small-Sized Convolutional Neural Network**
Kesim E., Dokur Z., Ölmez T.
International Scientific Meeting on Electrical-Electronics and Biomedical Engineering and Computer Science (EBBT), İstanbul, Turkey, 24 - 26 April 2019

IX. **Improved Fuzzy C-means and K-means Algorithms for Texture and Boundary Segmentation**
Koc Y., Ölmez T.
6th International Conference on Control Engineering and Information Technology (CEIT), İstanbul, Turkey, 25 - 27 October 2018

X. **Nature Inspired Algorithm MABC for Clustering and Classification of ECG Heart Beats, Using Time and Frequency Domain Features**
Dilmac S., Ölmez T.
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.534-538

XI. **Protein Folding Simulations Using ECEPP Force Field with Single Solution Based Metaheuristics**
Doğan B., Ölmez T.
International Conference on Artificial Intelligence and Data Processing (IDAP16), Malatya, Turkey, 17 - 18 September 2016, pp.104-108

XII. **Filter Bank Common Spatio Spectral Patternsfor Motor Imagery Classification**
Yüksel A., Ölmez T.
7th International Conference on Information Technology in Bio- and Medical Informatics - ITBAM 2016, Porto, Portugal, 5 - 08 September 2016, pp.69-84

XIII. **Modified off-lattice AB Model for Protein Folding Problem Using the Vortex Search Algorithm**
Doğan B., Ölmez T.
International Journal of Machine Learning and Computing (IJMLC), Florence, Italy, 29 - 30 July 2015, vol.5, no.4, pp.329-333

XIV. **Divergent Common Spatial Patterns Method**
Duman M. E., Yuksel A., Ölmez T.
23nd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.612-615

XV. **Task Related & Spatially Regularized Common Spatial Patterns for Brain Computer Interfaces**
Yuksel A., Ölmez T.
2nd International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO), Granada, Nicaragua, 7 - 09 April 2014, pp.42-53

XVI. **Fuzzy Clustering of ECG Beats Using a New Metaheuristic Approach**
Dogan B., Ölmez T.
2nd International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO), Granada, Nicaragua, 7 - 09 April 2014, pp.54-65

XVII. **A Monte Carlo Simulation for Photon Migration in Non-Homogeneous Medium**
Tok R. U., Ölmez T., Akin A.
14th National Biomedical Engineering Meeting, İzmir, Turkey, 20 - 22 May 2009, pp.207-208

XVIII. **Automatic Segmentation of Bone Tissue in X-Ray Hand Images**
Yuksel A., Ölmez T.
9th International Conference on Adaptive and Natural Computing Algorithms (ICANNGA), Kuopio, Finland, 23 - 25 April 2009, vol.5495, pp.590-599

XIX. **Modeling of Inhomogeneous Intensity Distribution of X-Ray Source in Radiographic Images**
YUKSEL A., Dokur Z., KORUREK M., Ölmez T.
23rd International Symposium on Computer and Information Sciences, İstanbul, Turkey, 27 - 29 October 2008,

pp.515-519

XX. **Segmentation of S1-S2 Sounds in Phonocardiogram Records Using Wavelet Energies**
YAMACLI M., Dokur Z., Ölmez T.
23rd International Symposium on Computer and Information Sciences (ISCIS), İstanbul, Turkey, 27 - 29 October 2008, pp.582-587

XXI. **Segmentation of medical images by using wavelet transform and incremental self-organizing map**
Dokur Z., Iscan Z., Ölmez T.
5th Mexican International Conference on Artificial Intelligence (MICAI 2006), Apizaco, Mexico, 13 - 17 November 2006, vol.4293, pp.800-802

XXII. **Classification of heart sounds by using wavelet transform**
SAY O., Dokur Z., Olmez T.
24th Annual International Conference of the Engineering-in-Medicine-and-Biology-Society/Annual Fall Meeting of the Biomedical-Engineering-Society (EMBS 2002 BMES), Texas, United States Of America, 23 - 26 October 2002, pp.128-129

XXIII. **Classification of tissues in MR images by using discrete cosine transform**
Dokur Z., KURNAZ M., Olmez T.
24th Annual International Conference of the Engineering-in-Medicine-and-Biology-Society/Annual Fall Meeting of the Biomedical-Engineering-Society (EMBS 2002 BMES), Texas, United States Of America, 23 - 26 October 2002, pp.1101-1102

XXIV. **Classification of MR and CT images using genetic algorithms**
Dokur Z., OLMEZ T., YAZGAN E.
10th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society, HONG KONG, PEOPLES R CHINA, 29 October - 01 November 1998, vol.20, pp.1418-1421

XXV. **Classification of ECG waveforms using a novel neural network**
OLMEZ T., Dokur Z., YAZGAN E.
10th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society, HONG KONG, PEOPLES R CHINA, 29 October - 01 November 1998, vol.20, pp.1616-1619

XXVI. **Classification of magnetic resonance images by using genetic algorithms**
Dokur Z., OLMEZ T., YAZGAN E.
International Conference of the IEEE Engineering-in-Medicine-and-Biology-Society, Illinois, United States Of America, 30 October - 02 November 1997, vol.19, pp.1391-1393

XXVII. **Classification of ECG waveforms by using genetic algorithms**
OLMEZ T., Dokur Z., YAZGAN E.
International Conference of the IEEE Engineering-in-Medicine-and-Biology-Society, Illinois, United States Of America, 30 October - 02 November 1997, vol.19, pp.92-94

XXVIII. **MR image classification by the neural network and the genetic algorithms**
OLMEZ T., Dokur Z., YAZGAN E.
18th Annual International Conference of IEEE Engineering-in-Medicine-amd-Biology-Society, Amsterdam, Netherlands, 31 October - 03 November 1996, vol.18, pp.1140-1141

Supported Projects

Ölmez T., Demir Y., Project Supported by Higher Education Institutions, Gömülü Sistemlerde Derin Öğrenme metoduyla Tıbbi Görüntülerin Sınıflandırılması, 2018 - Continues

Ölmez T., Project Supported by Higher Education Institutions, Görev İlişkili ve Uzamsal Düzenlenmiş Ortak Uzamsal Örüntüler, 2014 - 2018

Ölmez T., Project Supported by Higher Education Institutions, Optimum Protein Katlanmasını Bulmaya Yönelik Yeni Yaklaşımlar, 2013 - 2018

Ölmez T., Project Supported by Higher Education Institutions, Temassız ve İşaret/gürültü oranı yüksek olarak Kalp Vurularının Bilgisayara Alınması, 2016 - 2016

Ölmez T., Project Supported by Higher Education Institutions, Ultrasonik Görüntülerdeki Dokuların Yapay Sinir Ağları ile Sınflandırılması, 2004 - 2005
Ölmez T., Project Supported by Higher Education Institutions, el Bilgisayarı Yardımıyla Biyomedikal Veri Toplama Sistemi, 2001 - 2002
Ölmez T., Project Supported by Higher Education Institutions, Yapay Sinir Ağı Yardımıyla Cisim Tanıma, 1996 - 2002
Ölmez T., Project Supported by Higher Education Institutions, Bilgisayar Destekli Görüntülü Telefon, 1997 - 2001

Activities in Scientific Journals

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, Editor, 2016 - Continues

Scientific Consultations

AORT .... LİMİTED ŞİRKETİ, Project Consultancy, Istanbul Technical University, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, Turkey, 2018 - 2019

Scientific Research / Working Group Memberships

Tıbbi Bilişim ve Sistemler Grubu, İSTANBUL TEKNİK ÜNİVERSİTESİ, Turkey, https://calismagruplari.itu.edu.tr/, 2009 - Continues

Metrics

Publication: 83
Citation (WoS): 863
Citation (Scopus): 1221
H-Index (WoS): 14
H-Index (Scopus): 18

Congress and Symposium Activities

Nature Inspired Algorithm MABC for Clustering and Classification of ECG Heart Beats, Using Time and Frequency Domain Features, Attendee, Bursa, Turkey, 2017
Fuzzy Clustering of ECG Beats Using a New Metaheuristic Approach, Attendee, United States Of America, 2015
Modified off-lattice AB Model for Protein Folding Problem Using the Vortex Search Algorithm, Attendee, United States Of America, 2014
Task Related & Spatially Regularized Common Spatial Patterns for Brain Computer Interfaces, Attendee, United States Of America, 2014

Non Academic Experience

Other Public Institution, Tubıtak
TÜBİTAK
Business Establishment Private, Teletaş (Şu Anki Adı Alkatel)
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