

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 TELETAS** 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, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Biyomedikal Mühendisliği Anabilim Dalı, Turkey 1991 - 1995

Post Graduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), Turkey 1985 - 1988

Under Graduate, İstanbul Teknik Üniversitesi, 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

Post Graduate, 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

Courses

Biyolojik İşaretlerin Oluşumu ve Algılama Yöntemleri, Under Graduate, 2017 - 2018
Mikroişlemsi sistemleri, Under Graduate, 2016 - 2017
Biyolojik İşaretlerin Oluşumu ve Algılama Yöntemleri, Under Graduate, 2016 - 2017
Mikroişlemci sistemleri, Under Graduate, 2016 - 2017
Tıbbi Enstrumantasyon, Tasarım ve Uygulamaları, Under Graduate, 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, Post Graduate, 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, Post Graduate, M.Emre(Student), 2015
Ölmez T., Kablosuz iletişim kullanılarak kalp seslerinin gerçek zamanda depolanması, görüntülenmesi ve analizi, Post Graduate, C.Ovacık(Student), 2014
Ölmez T., Kütle spektrometresi verilerinin analiziyle prostat ve yumurtalık kanserlerinin belirlenmesi, Post Graduate, V.Taşkın(Student), 2013
Ölmez T., Monitoring of cardio rhythm with accelerometer (Accelerometer-Cardio-Gram-ACG) over wireless body area network, Post Graduate, H.Basri(Student), 2011
Ölmez T., Yakın kızılaltı spektroskopisinde beyin dışı biyolojik dokulardan gelen bozucu etkilerin giderilmesi, Post Graduate, R.Umut(Student), 2010
Ölmez T., Fonksiyonel manyetik rezonans görüntüleme ile eş zamanlı kaydedilen elektroensefalogram üzerinde oluşan artefaktların giderilmesi, Post Graduate, B.Erdoğan(Student), 2009
Ölmez T., Elektroensefalografi ile anestezi ve sedasyon düzeyinin ilinti boyutu ve dalgacık faz uyumu analizi, Post Graduate, B.Cebeci(Student), 2009
Ölmez T., X-ışını el görüntülerinde kemik dokusunun bölütlenmesi, Post Graduate, A.Yüksel(Student), 2008
Ölmez T., Artımsal yapay sinir ağları kullanılarak ultrasonik görüntülerin bölütlenmesi, Doctorate, M.Nadir(Student), 2006
Ölmez T., Elektrokardiyogram işaretlerinin sıkıştırılması, Post Graduate, M.Kaya(Student), 2006
Ölmez T., Yapay sinir ağları kullanarak ultrasonik görüntülerde dokuların bölütlenmesi, Post Graduate, Z.İşcan(Student), 2005
Ölmez T., Biyomedikal görüntülerin dalgacık dönüşümü ile sıkıştırılması, Post Graduate, 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, Post Graduate, G.Güngör(Student), 1998

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

- I. **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 (Journal Indexed in SCI)
- II. **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
(Journal Indexed in SCI)
- III. **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
(Journal Indexed in SCI)
- IV. **A Neural Network-Based Optimal Spatial Filter Design Method for Motor Imagery Classification**
Yuksel A., Ölmez T.
PLOS ONE, vol.10, no.5, 2015 (Journal Indexed in SCI)
- V. **A new metaheuristic for numerical function optimization: Vortex Search algorithm**
Dogan B., Ölmez T.
INFORMATION SCIENCES, vol.293, pp.125-145, 2015 (Journal Indexed in SCI)
- VI. **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
(Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **Retrospective correction of near field effect of X-ray source in radiographic images by using genetic algorithms**
Korurek M., YUEKSEL A., ISCAN Z., DOKUR Z., OELMEZ T.
EXPERT SYSTEMS WITH APPLICATIONS, vol.37, no.3, pp.1946-1954, 2010 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **Feature determination for heart sounds based on divergence analysis**
Dokur Z., Ölmez T.
DIGITAL SIGNAL PROCESSING, vol.19, no.3, pp.521-531, 2009 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **An incremental neural network for tissue segmentation in ultrasound images**
Kurnaz M. N. , DOKUR Z., Ölmez T.
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.85, no.3, pp.187-195, 2007 (Journal Indexed in SCI)

- XVI. **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 (Journal Indexed in SCI Expanded)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **Application of InP neural network to ECG beat classification**
 Olmez T., Dokur Z.
 NEURAL COMPUTING & APPLICATIONS, vol.11, pp.144-155, 2003 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **Classification of heart sounds using an artificial neural network**
 Olmez T., DOKUR Z.
 PATTERN RECOGNITION LETTERS, vol.24, pp.617-629, 2003 (Journal Indexed in SCI)
- XXII. **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 (Journal Indexed in SCI)
- XXIII. **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 (Journal Indexed in SCI Expanded)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **Classification of ECG waveforms by using RCE neural network and genetic algorithms**
 Ölmez T.
 ELECTRONICS LETTERS, vol.33, no.18, pp.1561-1562, 1997 (Journal Indexed in SCI Expanded)
- XXVIII. **A multilayer incremental neural network architecture for classification**
 Ölmez T.
 NEURAL PROCESSING LETTERS, vol.2, no.2, pp.5-9, 1995 (Journal Indexed in SCI Expanded)
- XXIX. **Optimized competitive feature vector network**
 Ölmez T.
 ELECTRONICS LETTERS, vol.30, no.24, pp.2052-2053, 1994 (Journal Indexed in SCI Expanded)
- XXX. **Modified restricted Coulomb energy neural network**
 Ölmez T.
 ELECTRONICS LETTERS, vol.29, no.22, pp.1963-1965, 1993 (Journal Indexed in SCI Expanded)

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. **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
- II. **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
- III. **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
- IV. **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
- V. **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
- VI. **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
- VII. **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
- VIII. **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
- IX. **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
- X. **Divergent Common Spatial Patterns Method**
Duman M. E. , Yuksel A., Ölmez T.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.612-615
- XI. **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

XII. 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

XIII. 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

XIV. 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

XV. 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

XVI. 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

XVII. 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

XVIII. Classification of heart sounds by using wavelet transform

SAY O., Dokur Z., Ölmez 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

XIX. Classification of tissues in MR images by using discrete cosine transform

Dokur Z., KURNAZ M., Ölmez 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

XX. 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

XXI. 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

XXII. 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

XXIII. 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

XXIV. 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-and-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 Sınıflandırılması, 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 Refereeing

Ranking Based Feature Selection Method for the Sentiment Analysis, SCI Journal, August 2017

Fusion of ECG and ABP Signal Based on Wavelet Transform for Cardiac Arrhythmias Classification, SCI Journal, May 2017

Finite Bounded Generalized Gaussian Mixture Modeling with Spatial Information and Application to Medical Image Sequences Segmentation, SCI Journal, March 2017

Feature Object Extraction Applied to Activity-Based Intelligence Threat Understanding, SCI Journal, February 2017

A MUSICAL INFORMATION RETRIEVAL SYSTEM FOR CLASSIC TURKISH MUSIC MAKAMS, SCI Journal, February 2017

An Architecture for Multi-Robot SLAM on Gazebo/ROS Simulation Environment, SCI Journal, February 2017

Scientific Consultations

AORT LİMİTED ŞİRKETİ, Project Consultancy, İstanbul Teknik Üniversitesi, Turkey, 2018 - 2019

Scientific Research / Working Group Memberships

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

Edit 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

Citations

Total Citations (WOS):758

h-index (WOS):14

Non Academic Experience

Other Public Institution, Tubitak

Business Establishment Private, Teletaş (Şu Anki Adı AlkateI)