Asst. Prof. Ali DEMİR

Personal Information

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Education Information

Doctorate, Bogazici University, Biyomedikal Mühendisliği Enstitüsü, Biyomedikal Mühendisliği (Dr), Turkey 2013 - 2020
Postgraduate, Sabanci University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği (Yl) (Tezli), Turkey 2008 - 2010
Undergraduate Double Major, Yeditepe University, Mühendislik Fakültesi, Biyomedikal Mühendisliği Bölümü, Turkey 2004 - 2008
Undergraduate, Yeditepe University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2002 - 2008

Dissertations

Doctorate, A macro-structural characteristic of brain white matter: 'Dispersion' with its clinical and technical applications, Bogazici University, Biyomedikal Mühendisliği Enstitüsü, Biyomedikal Mühendisliği (Dr), 2020
Postgraduate, Anatomical landmark based registration of contrast enhanced-T1 weighted magnetic resonance images, Sabanci University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği (Yl) (Tezli), 2010

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Computer Sciences, Engineering and Technology

Academic Titles / Tasks

Lecturer, Istanbul Medipol University, Meslek Yüksekokulu, Bilgisayar Teknolojileri Bölümü, 2015 - Continues

Courses

GÖRÜNTÜ İŞLEME, Associate Degree, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
C PROGRAMLAMA, Associate Degree, 2019 - 2020, 2018 - 2019
YÖNLENDİRİLMİŞ ÇALIŞMA, Associate Degree, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
PROGRAMCILIĞA GİRİŞ, Associate Degree, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
VERİ YAPILARI, Associate Degree, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
PROGRAMLAMAYA GİRİŞ, Undergraduate, 2015 - 2016

Refereed Congress / Symposium Publications in Proceedings

I. **Comparison of low and high grade glioma maps**
   ÇOTUR Y., ÖZKAN M., DEMİR A., TURNAOĞLU H., AĞILDERE A. M., ALKAN Ö., ULUĞ A. M.
   2015 19th National Biomedical Engineering Meeting (BIYOMUT), Istanbul, Turkey, Turkey, 5 - 06 November 2015

II. **Probabilistic Determination of Brain Tumor Locations**
   ÇOTUR Y., ÖZKAN M., DEMİR A., TURNAOĞLU H., AĞILDERE A. M., ALKAN Ö., ULUĞ A. M.
   37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBS), 29 August 2015

III. **Application of online agglomerative hierarchical clustering on real dMRI**
   DEMİR A., ÖZKAN M.
   2014 18th National Biomedical Engineering Meeting, Istanbul, Turkey, Turkey, 16 - 17 October 2014

IV. **Online agglomerative hierarchical clustering of neural fiber tracts**
   DEMİR A., MOHAMED A., ÇETİNGÜL H. E.
   2013 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Osaka, Japan, 3 - 07 July 2013

V. **Importance sampling on orientation distribution functions for filtered probabilistic tractography**
   ÇETİNGÜL H. E., DUMONT L., DEMİR A., LENGLET C.
   Organization for Human Brain Mapping (OHBM) Annual Meeting, Seattle, WA, United States Of America, 20 June 2013

VI. **A novel iterative approach for segmentation and tractography of brain white matter fibers using MRI DTI data**
   GÜLER R. A., DEMİR A., ÜNAL G.
   MICCAI 2012 DTI Tractography Challenge, 01 October 2012

VII. **Elliptic fourier features of brain white matter pathways**
   DEMİR A., ÜNEL M., DERICHE R., ÜNAL G.
   2012 20th Signal Processing and Communications Applications Conference (SIU), Mugla, Turkey, Turkey, 18 - 20 April 2012

VIII. **Anatomical Landmark Based Registration of Contrast Enhanced T1-Weighted MR Images**
   DEMİR A., ÜNAL G., KARAMAN K.
   BIOMEDICAL IMAGE REGISTRATION, Lübeck, Germany, 11 - 13 July 2010, vol.6204, pp.91

IX. **A simple set up for the measurement of patient response time in fMRI**
   DEMİR A., KESKİN A. Ü., ÜNSAL M., BAYRAM A.
   2010 15th National Biomedical Engineering Meeting, Antalya, Turkey, Turkey, 21 - 24 April 2010

X. **Automatic registration of follow-up brain MRI scans**
   DEMİR A., ÜNAL G., KARAMAN K.
   2009 14th National Biomedical Engineering Meeting, Izmir, Turkey, Turkey, 20 - 22 May 2009

XI. **Software Platform for Diffusion Tensor Imaging**
   DEMİR A., FIRAT Z., ULUĞ A. M.
   29th National Congress of Radiology, Turkey, 05 November 2008