

Prof. Songül VARLI

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International Researcher IDs

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ScopusID: 16309030500

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Education Information

Doctorate, Yıldız Technical University, Faculty Of Electrical & Electronics, Bilgisayar Mühendisliği Bölümü, Turkey 1993 - 2001

Postgraduate, Yıldız Technical University, Faculty Of Electrical & Electronics, Bilgisayar Mühendisliği Bölümü, Turkey 1989 - 1993

Undergraduate, Yıldız Technical University, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 1985 - 1989

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

IT, Ziyaretçi Araştırmacı, Brunel University, Collage of Engineering Design and Physics, 2012

Dissertations

Doctorate, Renk Özelliği ile İçerik Tabanlı Görüntü Erişimi, Yıldız Teknik Üniversitesi, Fen Bilimleri, Bilgisayar Mühendisliği Bölümü, 2001

Postgraduate, Sayısal İşaret ve Görüntü İşlemede B-Spline fonksiyonları ile İnterpolasyon ve Filtreleme, Yıldız Teknik Üniversitesi, Fen Bilimleri, Bilgisayar Mühendisliği Bölümü, 1993

Research Areas

Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Knowledge Engineering, Human Computer Interaction, Pattern Recognition and Image Processing, Biomedical Image Processing

Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2020 - Continues
Associate Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2014 - 2020
Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2003 - 2014
Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 1990 - 2003

Academic and Administrative Experience

Head of Department, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2017 - 2021
Assistant Director of the Institute, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2018 - 2020
Head of Department, Yildiz Technical University, Faculty of Electrical & Electronics, Computer Engineering, 2005 - 2012
Deputy Head of Department, Yildiz Technical University, Faculty of Electrical & Electronics, Computer Engineering, 2006 - 2008

Courses

Data Mining and Knowledge Discovery, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Veri Madenciliği, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Computer Hardware, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Computer Vision, Postgraduate, 2018 - 2019, 2016 - 2017, 2015 - 2016
Microprocessor Systems, Undergraduate, 2018 - 2019, 2015 - 2016

Advising Theses

Varlı S., Retinal Fundus Görüntülerinde Sınıflandırma ve Bölütleme, Postgraduate, S.AYTAÇ(Student), 2019
Varlı S., Telekomünikasyon Sektöründe Müşteri Sadakati, Postgraduate, M.Yıldız(Student), 2017
VARLI S., Predicting Venues in Location Based Social Network, Postgraduate, O.Almallah(Student), 2017
Varlı S., Product recognition and counting in retail stores using computer vision, Postgraduate, M.H.(Student), 2017
Varlı S., Grammatical genetic programming on heterogeneous computing platforms, Doctorate, H.AYRAL(Student), 2017
Varlı S., MR görüntülerinde menisküslerin segmentasyonu ve menisküs yırtıklarının tespiti, Doctorate, A.SAYGILI(Student), 2017
VARLI S., Konum Tabanlı Sosyal Ağlarda Konum Tahmini, Postgraduate, M.Baydar(Student), 2016
Varlı S., 3-D automatic segmentation and modelling of cartilage compartments in high-field magnetic resonance images of the knee joint, Doctorate, C.NUR(Student), 2016
Varlı S., İşaretçi iskelet yapısını kullanarak saklı Markov model ile türk işaret dili tanıma sistemi, Postgraduate, K.KAKAYEV(Student), 2016
Varlı S., Omuz manyetik rezonans görüntülerinden Humerus bölütlenmesi ve Hill-Sachs lezyonlarının tespiti, Doctorate, A.SEZER(Student), 2015
Varlı S., Lokasyon bazlı sosyal ağlarda insan hareketliliğinin modellenmesi, Postgraduate, N.NASİROV(Student), 2015
VARLI S., Zamana Bağlı İşbirlikçi Filtreleme, Postgraduate, Ç.Bakır(Student), 2014
VARLI S., Veri Madenciliğindeki Sınıf Dengesizliği Probleminin Giderilmesi, Postgraduate, A.Sarmanova(Student), 2013
VARLI S., Kinect RGB Görüntülerde ve Derinlik Haritalarında Uzam-zamansal Özellikleri Kullanarak Türk İşaret Dili Tanıma, Postgraduate, A.Memiş(Student), 2013
VARLI S., Sentetik Açıklık Radar Görüntülerinin Sınıflandırılması ve Kümelenme, Doctorate, E.Uslu(Student), 2013
VARLI S., Veri Madenciliği Yöntemlerini Kullanarak Mühendislik Fakültesi Öğrencilerinin Demografik Bilgileri, ÖSYS Puanı ve Okul Başarısının Analizi, Postgraduate, A.Saygılı(Student), 2013

VARLI S., Gerçek Zamanlı Dolaylı Işıklandırma, Postgraduate, M.Arıca(Student), 2011
Varlı S., Robust classification based on sparsity, Doctorate, E.BATTİNİ(Student), 2011
Varlı S., Özdüzenleyici haritaların görselleştirilmesi, Postgraduate, E.ÖNCEL(Student), 2011
VARLI S., FPGA Tabanlı Sentezlenebilir İşlemci Tasarımı, Postgraduate, S.Başak(Student), 2011
VARLI S., Havayolu Şirketlerinde Müşteri İlişkileri Yönetimini (CRM) Desteklemek Ve Müşteri Sadakatini Değerlendirmek İçin Veri Madenciliğinin Kullanılması, Postgraduate, A.Hasan(Student), 2011
Varlı S., Web kullanım madenciliğinde birliktelik kurallarının uygulanması, Postgraduate, H.MUKADDER(Student), 2010
Varlı S., İlgili bölgeleri ve yerel tanımlayıcılar ile genelleştirilmiş Hough dönüşümü ve en az eylemsizlik eksenli tabanlı hizalama yaklaşımı ile Türk işaret dili tanıma sistemi, Doctorate, O.ALTUN(Student), 2010
VARLI S., Aykırı Değer Tespitinde Yoğunluk Tabanlı Kümeleme Yöntemleri, Postgraduate, M.Tekbir(Student), 2009
VARLI S., Gen Kümeleme İşleminin Özdüzenleyici Haritalar Kullanılarak Gen Ekspresyonu, Motif Sıklık ve Gen Konum Verilerinden Faydalanılarak Gerçekleştirimi, Postgraduate, A.Özdoğan(Student), 2009
VARLI S., Veri Madenciliğinde Market Sepet Analizi ve Birliktelik Kurallarının Belirlenmesi, Postgraduate, A.Döşlü(Student), 2008
VARLI S., Aktif Görünüm Modeli Kullanarak Yüz Tanıma, Postgraduate, Ç.Tırkaz(Student), 2008
Varlı S., 2-boyutlu hareket kestirimi ve video çerçeve aradeğerlemesinde uygulanması, Postgraduate, S.NASIR(Student), 2007
VARLI S., Vektör Kuantalama ile Görüntü Sıkıştırma, Postgraduate, N.Erdem(Student), 2006
VARLI S., Bilgisayar ile Kablosuz Olarak Haberleşen Paletli Bir Aracın ve Çift Yönlü İletişim Protokolünün Mekanik, Elektronik ve Yazılımsal Olarak Gerçeklenmesi, Postgraduate, A.Yanarsoy(Student), 2006
VARLI S., Saklı Markov Model Kullanılarak Görüntüden Gerçek Zamanlı Türk İşaret Dili Tanıma Sistemi, Postgraduate, H.Haberdar(Student), 2005

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An enhanced Swin Transformer for soccer player reidentification**
Akan S., VARLI S., Bhuiyan M. A. N.
Scientific Reports, vol.14, no.1, 2024 (SCI-Expanded)
- II. **ConvNext Mitosis Identification—You Only Look Once (CNMI-YOLO): Domain Adaptive and Robust Mitosis Identification in Digital Pathology**
TOPUZ Y., Yıldız S., VARLI S.
Laboratory Investigation, vol.104, no.10, 2024 (SCI-Expanded)
- III. **Datasets and methods of product recognition on grocery shelf images using computer vision and machine learning approaches: An exhaustive literature review**
Melek C. G., Battini Sönmez E., VARLI S.
Engineering Applications of Artificial Intelligence, vol.133, 2024 (SCI-Expanded)
- IV. **Elevating healthcare through artificial intelligence: analyzing the abdominal emergencies data set (TR_ABDOMEN_RAD_EMERGENCY) at TEKNOFEST-2022**
Koç U., SEZER E., Özkaya Y. A., Yarbay Y., Beşler M. S., Taydaş O., YALÇIN A., Evrimler Ş., Kızıoğlu H. A., Kesimal U., et al.
European Radiology, vol.34, no.6, pp.3588-3597, 2024 (SCI-Expanded)
- V. **Improvement proposals for lesion segmentation on dermoscopic images Dermoskopik görüntülerde lezyon bölütleme için iyileştirme önerileri**
Arpacı S. A., VARLI S.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.40, no.1, pp.251-263, 2024 (SCI-Expanded)
- VI. **Development of a Hybrid Method for Multi-Stage End-to-End Recognition of Grocery Products in Shelf Images**
Melek C. G., Battini Sonmez E., Ayral H., VARLI S.
Electronics (Switzerland), vol.12, no.17, 2023 (SCI-Expanded)

- VII. **Use of deep learning in soccer videos analysis: survey**
 Akan S., Varlı S.
 Multimedia Systems, vol.29, no.3, pp.897-915, 2023 (SCI-Expanded)
- VIII. **TRCaptionNet: A novel and accurate deep Turkish image captioning model with vision transformer based image encoders and deep linguistic text decoders**
 Yildiz S., Memiş A., VARLI S.
 Turkish Journal of Electrical Engineering and Computer Sciences, vol.31, no.6, pp.1079-1098, 2023 (SCI-Expanded)
- IX. **A turnaround control system to automatically detect and monitor the timestamps of ground service actions in airports: A deep learning and computervision based approach br**
 Yildiz S., Aydemir O., Memis A., VARLI S.
 ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.114, 2022 (SCI-Expanded)
- X. **Fast and Accurate Registration of the Proximal Femurs in Bilateral Hip Joint Images by Using the Random Sub-Sample Points**
 Memiş A., VARLI S., Bilgili F.
 IRBM, vol.43, pp.130-141, 2022 (SCI-Expanded)
- XI. **Image based quantification of the proximal femur shape deformities in 3D by using the contralateral healthy shape structure: A preliminary study**
 Memis A., VARLI S., Bilgili F.
 BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.71, 2022 (SCI-Expanded)
- XII. **A novel approach for computerized quantitative image analysis of proximal femur bone shape deformities based on the hip joint symmetry**
 Memiş A., VARLI S., Bilgili F.
 Artificial Intelligence in Medicine, vol.115, 2021 (SCI-Expanded)
- XIII. **Semantic segmentation of the multiform proximal femur and femoral head bones with the deep convolutional neural networks in low quality MRI sections acquired in different MRI protocols**
 Memis A., VARLI S., Bilgili F.
 COMPUTERIZED MEDICAL IMAGING AND GRAPHICS, vol.81, 2020 (SCI-Expanded)
- XIV. **Knee Meniscus Segmentation and Tear Detection from MRI: A Review**
 Saygılı A., Varlı S.
 Current Medical Imaging Reviews, vol.14, pp.1-13, 2020 (SCI-Expanded)
- XV. **Computerized 2D detection of the multiform femoral heads in magnetic resonance imaging (MRI) sections with the integro-differential operator**
 Memis A., Varlı S., Bilgili F.
 BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.54, 2019 (SCI-Expanded)
- XVI. **A new scheme for automatic 2D detection of spheric and aspheric femoral heads: A case study on coronal MR images of bilateral hip joints of patients with Legg-Calve-Perthes disease**
 Memis A., Albayrak S., Bilgili F.
 COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.175, pp.83-93, 2019 (SCI-Expanded)
- XVII. **An efficient and fast computer-aided method for fully automated diagnosis of meniscal tears from magnetic resonance images**
 Saygili A., Albayrak S.
 ARTIFICIAL INTELLIGENCE IN MEDICINE, vol.97, pp.118-130, 2019 (SCI-Expanded)
- XVIII. **Hermite-based texture feature extraction for classification of humeral head in proton density-weighted MR images**
 Sezer A., Sezer H. B., Albayrak S.
 NEURAL COMPUTING & APPLICATIONS, vol.28, pp.3021-3033, 2017 (SCI-Expanded)
- XIX. **A new computer-based approach for fully automated segmentation of knee meniscus from magnetic resonance images**
 Saygılı A., Albayrak S.
 BIOCYBERNETICS AND BIOMEDICAL ENGINEERING, vol.37, pp.432-442, 2017 (SCI-Expanded)
- XX. **Automatic segmentation of cartilage in high-field magnetic resonance images of the knee joint with**

an improved voxel-classification-driven region-growing algorithm using vicinity-correlated subsampling

Öztürk C., Albayrak S.

COMPUTERS IN BIOLOGY AND MEDICINE, vol.72, pp.90-107, 2016 (SCI-Expanded)

- XXI. **Content-based texture image retrieval by histogram of curvelets**
Uslu E., Albayrak S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, pp.2498-2512, 2016 (SCI-Expanded)
- XXII. **A facial component-based system for emotion classification**
Sonmez E., Albayrak S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, pp.1663-1673, 2016 (SCI-Expanded)
- XXIII. **Segmentation of Bone with Region Based Active Contour Model in PD Weighted MR Images of Shoulder.**
Sezer A., Sezer H., Albayrak S.
Computational and mathematical methods in medicine, vol.2015, pp.754894, 2015 (SCI-Expanded)
- XXIV. **Curvelet-Based Synthetic Aperture Radar Image Classification**
Uslu E., Albayrak S.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol.11, pp.1071-1075, 2014 (SCI-Expanded)
- XXV. **Synthetic Aperture Radar Image Clustering with Curvelet Subband Gauss Distribution Parameters**
Uslu E., Albayrak S.
REMOTE SENSING, vol.6, pp.5497-5519, 2014 (SCI-Expanded)
- XXVI. **Critical parameters of the sparse representation-based classifier**
Sonmez E. B., Albayrak S.
IET COMPUTER VISION, vol.7, pp.500-507, 2013 (SCI-Expanded)
- XXVII. **An evaluation of local interest regions for non-rigid object class recognition**
Altun O., Albayrak S.
EXPERT SYSTEMS WITH APPLICATIONS, vol.39, pp.2335-2340, 2012 (SCI-Expanded)
- XXVIII. **Turkish fingerspelling recognition system using Generalized Hough Transform, interest regions, and local descriptors**
Altun O., Albayrak S.
PATTERN RECOGNITION LETTERS, vol.32, no.13, pp.1626-1632, 2011 (SCI-Expanded)
- XXIX. **Visualization and analysis of classifiers performance in multi-class medical data**
Diri B., Albayrak S.
EXPERT SYSTEMS WITH APPLICATIONS, vol.34, pp.628-634, 2008 (SCI-Expanded)
- XXX. **Unsupervised clustering methods for medical data: An application to thyroid gland data**
ALBAYRAK S.
ARTIFICIAL NEURAL NETWORKS AND NEURAL INFORMATION PROCESSING - ICAN/ICONIP 2003, vol.2714, pp.695-701, 2003 (SCI-Expanded)

Articles Published in Other Journals

- I. **Artificial Intelligence in Healthcare Competition (TEKNOFEST-2021): Stroke Data Set.**
Koç U., Sezer E., Özkaya Y. A., Yarbay Y., Taydaş O., Ayyıldız V. A., Kızıloğlu H. A., Kesimal U., Çankaya İ., Beşler M. S., et al.
The Eurasian journal of medicine, vol.54, no.3, pp.248-258, 2022 (ESCI)
- II. **Quantification of 2D shape variation of abnormal proximal femurs over normal proximal femurs in bilateral hip MRI: A computerized analysis for Legg-Calve-Perthes disease**
Memiş A., VARLI S., BİLGİLİ F.
Procedia Computer Science, vol.158, pp.426-435, 2019 (Scopus)

- III. **Effects of Population, Generation and Test Case Count on Grammatical Genetic Programming for Integer Lists**
Ayrıl H., Albayrak S.
Journal of Software, vol.12, no.5, pp.1-5, 2017 (Peer-Reviewed Journal)
- IV. **Tiroit Bezi Verilerinin Bayes ve EnYakın K-Komşu gibi Eğitici Yöntemlerle Sınıflandırılması**
ALBAYRAK S.
DİE İstatistik Araştırma Dergisi, vol.1, no.1, 2002 (Non Peer-Reviewed Journal)
- V. **Color Quantization by Modified K-Means Algorithm**
ALBAYRAK S.
Pakistan Journal of Applied Sciences, vol.1, no.4, 2001 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **HTML-CSS-Web Siteleri Tasarlamak ve Oluşturmak**
Dağ H., VARLI S.
Nobel Yayın Dağıtım, İstanbul, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Semantic and Instance Segmentation of Multi-organ Cell Nuclei Using Deep Learning Based Methods**
Derin Öğrenmeye Dayalı Yöntemler Kullanılarak Çoklu-organ Hücre Çekirdeklerinin Anlamsal ve Örnek Bölütlenmesi
Yıldız S., MEMİŞ A., VARLI S.
32nd IEEE Conference on Signal Processing and Communications Applications, SIU 2024, Mersin, Turkey, 15 - 18 May 2024
- II. **Nuclei Instance Segmentation in Colon Histology Images with YOLOv7**
Yıldız S., Memiş A., VARLI S.
2nd International Conference on Advanced Engineering, Technology and Applications, ICAETA 2023, İstanbul, Turkey, 10 - 11 March 2023, vol.1983 CCIS, pp.335-343
- III. **A Comparative Analysis of Loss Functions in Segmentation of Medical Images with Highly Imbalanced Class Distribution: An Experimental Study for Deep Nuclei Segmentation**
Yıldız S., MEMİŞ A., VARLI S.
18th International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2024, Craiova, Romania, 4 - 06 September 2024
- IV. **Epidermis Segmentation in Melanoma Whole Slide Images: A Comparative Analysis of Deep Learning Architectures**
Gokcan M. T., TOPUZ Y., VARLI S.
18th International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2024, Craiova, Romania, 4 - 06 September 2024
- V. **Segmentation of Cell Nuclei in Histology Images with Vision Transformer Based U-Net Models**
Görü Dönüştürücü Tabanlı U-Net Modeller ile Histoloji Görüntülerinde Hücre Çekirdeği Bölütleme
Yıldız S., MEMİŞ A., VARLI S.
32nd IEEE Conference on Signal Processing and Communications Applications, SIU 2024, Mersin, Turkey, 15 - 18 May 2024
- VI. **Turkish Image Captioning with Vision Transformer Based Encoders and Text Decoders**
Görü Dönüştürücü Tabanlı Kodlayıcılar ve Metin Kod Çözücüler ile Türkçe Görüntü Altyazılama
Yıldız S., MEMİŞ A., VARLI S.
32nd IEEE Conference on Signal Processing and Communications Applications, SIU 2024, Mersin, Turkey, 15 - 18 May 2024

- VII. **Size-based Adaptive Instance Pruning for Refined Segmentation of Cell Nuclei in Histology Images**
Histoloji Görüntülerinde Hücre Çekirdeklerinin Daha İyi Bölütlenmesi için Boyut-bazlı Uyarlanabilir Örnek Budama
Yildiz S., Memiş A., VARLI S.
31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Turkey, 5 - 08 July 2023
- VIII. **Deep Learning Approaches for Type-1 Diabetes: Blood Glucose Prediction**
ÇELİK M. G., VARLI S.
7th International Conference on Computer Science and Engineering, UBMK 2022, Diyarbakır, Turkey, 14 - 16 September 2022, pp.263-267
- IX. **Automatic classification of the waldenstrom stages of legg-calve-perthes disease from the 2D total proximal femur shape deformity**
Memiş A., VARLI S., BİLGİLİ F.
2021 International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2021, Kocaeli, Turkey, 25 - 27 August 2021
- X. **EncU-Net: A modified U-net for dermoscopic image segmentation EncU-Net: Dermoskopik görüntü bölütlemesi için modifiye edilmiş U-net**
Arpacı S. A., VARLI S.
29th IEEE Conference on Signal Processing and Communications Applications, SIU 2021, Virtual, Istanbul, Turkey, 9 - 11 June 2021
- XI. **Random point sub-sampling in rigid registration of 2D proximal femur surfaces 2B proksimal femur yüzeylerinin kati olarak çakıştırılmasında rastgele nokta alt-örnekleme**
Memiş A., VARLI S., BİLGİLİ F.
29th IEEE Conference on Signal Processing and Communications Applications, SIU 2021, Virtual, Istanbul, Turkey, 9 - 11 June 2021
- XII. **3D Femoral Head Detection in MRI Data Sequences with the Integro-differential Operator**
Memiş A., VARLI S., BİLGİLİ F.
2020 Medical Technologies Congress, TIPTEKNO 2020, Antalya, Turkey, 19 - 20 November 2020
- XIII. **Femoral Head Segmentation with Convolutional Neural Networks in MR Imaging Slices of the Patients with Legg-Calve-Perthes Disease Evrimsel Sinir Agları ile Legg-Calve-Perthes Hastalarına Ait MR Görüntüleme Kesitlerinde Femur Basi Bölütleme**
Memiş A., VARLI S., BİLGİLİ F.
28th Signal Processing and Communications Applications Conference, SIU 2020, Gaziantep, Turkey, 5 - 07 October 2020
- XIV. **Retinal Vessel Segmentation with Differentiated U-Net Network**
Arpacı S. A., Varlı S.
Signal Processing and Communications Applications Conference (SIU), Gaziantep, Turkey, 5 - 07 October 2020, pp.1-5
- XV. **Customer Churn Analysis**
Yildiz S., Aydemir O., Yılmaz I., Say A., Varlı S.
Signal Processing and Communications Applications Conference (SIU), İstanbul, Turkey, 5 - 07 October 2020, pp.1-5
- XVI. **Object Detection in Shelf Images with YOLO**
MELEK C. G., SÖNMEZ E., VARLI S.
IEEE EUROCON 2019, 1 - 04 July 2019
- XVII. **Derin Öğrenme ile Diyabetik Retinopati Sınıflandırılması**
Arpacı S. A., Varlı S.
4.Uluslararası Bilimsel Araştırmalar Kongresi UBAK2019, Yalova, Turkey, 14 - 17 February 2019, pp.1-5
- XVIII. **MR Görüntülerin Bölütlenmesinde Kullanılan Medikal Yazılım Araçlarına Kısa Bir Bakış**
Memiş A., VARLI S., BİLGİLİ F.
TIPTEKNO 2018- Tıp Teknolojileri Kongresi, 8 - 10 November 2018

- XIX. **Identifying of Alphanumerical Codes in Promotional products by Using of Deep Neural Network**
Gider Ç., VARLI S.
2018 3rd International Conference on Computer Science and Engineering (UBMK), Sarajevo, Bosnia and Herzegovina, Bosnia And Herzegovina, 20 - 23 September 2018, vol.1
- XX. **MR Görüntülerin Bölütlenmesinde Kullanılan Medikal Yazılım Araçlarına Kısa Bir Bakış**
Memiş A., Varlı S.
Tıp Teknolojileri Kongresi – TIPTEKNO 2018 , Gazimagusa, Cyprus (Kktc), 8 - 10 November 2018, pp.1-5
- XXI. **3D Detection of Spheric and Aspheric Femoral Heads in Coronal MR Images of Patients with Legg-Calve-Perthes Disease Using the Spherical Hough Transform**
Memiş A., VARLI S.
3rd International Conference on Biomedical Imaging, Signal Processing (ICBSP 2018), Bari, Italy, 11 October 2018, pp.1-8
- XXII. **Segmentation of Femoral Cartilage with a Hybrid Method Combining Voxel Classification and Active Appearance Models**
Öztürk C., VARLI S.
3rd International Conference on Biomedical Imaging, Signal Processing (ICBSP 2018), Bari, Italy, 11 October 2018, pp.1-8
- XXIII. **Segmentation of femoral cartilage with a hybrid method combining voxel classification and active appearance models**
ÖZTÜRK C. N., VARLI S.
3rd International Conference on Biomedical Imaging, Signal Processing, ICBSP 2018, Bari, Italy, 11 - 13 October 2018, pp.61-67
- XXIV. **3D detection of spheric and aspheric femoral heads in coronal MR images of patients with Legg-Calve-Perthes disease using the Spherical Hough Transform**
Memiş A., VARLI S., BİLGİLİ F.
3rd International Conference on Biomedical Imaging, Signal Processing, ICBSP 2018, Bari, Italy, 11 - 13 October 2018, pp.46-52
- XXV. **Alfanümerik Promosyon Kodlarının Derin Sinir Ağı kullanarak Mobil Platformlarda Tanınması**
Gider Ç., Varlı S.
Uluslararası Bilgisayar Mühendisliği Kongresi, Sarajevo, Bosnia And Herzegovina, 20 September 2018, pp.1
- XXVI. **Femoral head detection in perthes MR slices with circular hough transform**
MEMİŞ A., VARLI S., BİLGİLİ F.
2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018, vol.1
- XXVII. **Meniscus tear classification using histogram of oriented gradients in knee MR images**
SAYGILI A., ALBAYRAK S.
2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, Turkey, 2 - 05 May 2018, vol.1
- XXVIII. **Diz Eklemi Menisküs Yapılarının Bölütlenmesinde Manyetik Rezonans Görüntüleme ve Farklı Uyarım Dizileri**
SAYGILI A., ALBAYRAK S.
II. International Scientific and Vocational Studies Congress, (BILMES EN-NAT 2018), Nevşehir, Turkey, 5 - 08 July 2018
- XXIX. **Perthes MR Kesitlerinde Dairesel Hough Dönüşümü ile Femur Başı Tespiti**
Memiş A., Bilgili F., Albayrak S.
26. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı, İzmir, Turkey, 02 May 2018, pp.1-2
- XXX. **Diz MR Görüntülerinde Yönelimli Gradyan Histogramları Kullanılarak Menisküs Yırtık Sınıflandırması**
Saygılı A., Albayrak S.
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- XL. **Turkish Sign Language Recognition Using Hidden Markov Model**
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- LXVII. **Mining of Microarray Gene Expression Data**
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- LXVIII. **Aktif Görünüm Modeli Kullanarak Yüz Tanıma**
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- LXXIII. **Content-Based Image Retrieval System Using Color Features**

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Varlı S.

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The Fifteenth International Symposium on Computer and Information Sciences (ISCIS 2000), Turkey, İstanbul, Turkey, 07 June 2000, pp.1-5

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2.Yapay Zeka ve Yapay Sinir Ağları Sempozyumu, İstanbul, Turkey, 01 January 1993, pp.1-5

Supported Projects

Varlı S., TUBITAK Project, Diz Eklemi MR Görüntülerinde Kırkırdak Doku ve Menisküs Bölütleme ve Ölçümleme, 2017 - 2019

VARLI S., Project Supported by Higher Education Institutions, Uzak-Zaman-Frekans Gösterimleri İle Sentetik Açıklık

Radar Görüntülerinin İşlenmesi, 2011 - 2014

VARLI S., Project Supported by Higher Education Institutions, Kinect Rgb Görüntülerinde ve Derinlik Haritalarında

Uzamn- zamansal Özellikleri Kullanarak İşaret Dili Tanıma, 2012 - 2013

VARLI S., Project Supported by Higher Education Institutions, Özdenleyici Haritaların Görselleştirilmesi, 2011 - 2012

BİRİCİK G., VARLI S., Other International Funding Programs, Çoklu Ortam Veri Tabanlarında İçeriğe Dayalı Sorgulama

Sistemi, 2004 - 2006

Scientific Refereeing

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, August 2018

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, January 2017

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, November 2016

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, November 2016

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TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, November 2013

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, February 2013

NEURAL PROCESSING LETTERS, Journal Indexed in SCI-E, November 2012

IEEE TRANSACTIONS ON IMAGE PROCESSING, SCI Journal, June 2012

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, March 2012

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, February 2012

NEURAL PROCESSING LETTERS, Journal Indexed in SCI-E, November 2011

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, October 2010

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, September 2010

NEURAL PROCESSING LETTERS, Journal Indexed in SCI-E, June 2010

NEURAL PROCESSING LETTERS, Journal Indexed in SCI-E, July 2009

NEURAL PROCESSING LETTERS, Journal Indexed in SCI-E, July 2008

Scientific Research / Working Group Memberships

Bilgisayarla Görme Araştırma Laboratuvarı, Yıldız Technical University, Türkiye, <http://vision.yildiz.edu.tr>, 2018 - Continues

Mobility Activity

Research Scholarship Program, Guest Researcher, Brunel University, England, 2012 - 2012

Metrics

Publication: 123

Citation (WoS): 283

Citation (Scopus): 393

H-Index (WoS): 10

H-Index (Scopus): 12

Awards

Varlı S., Tübitak Yayın Teşvik Ödülü, Tübitak, September 2017

Varlı S., Tübitak Yayın Teşvik Ödülü, Tübitak, May 2016

Varlı S., Tübitak Yayın Teşvik Ödülü, Tübitak, August 2014

Varlı S., Tübitak Yayın Teşvik Ödülü, Tübitak, March 2014

Varlı S., Tübitak 2242-LİSANS ÖĞRENCİLERİ YAZILIM PROJELERİ YARIŞMASI-Eğitim Uygulamaları, Tübitak, June 2013

Varlı S., Tübitak Yayın Teşvik Ödülü, Tübitak, January 2012

Varlı S., Tübitak Yayın Teşvik Ödülü, Tübitak, July 2011

Non Academic Experience

Other Public Institution, Türkiye Sağlık Enstitüleri Başkanlığı- TÜSEB, Türkiye Sağlık Veri Araştırmaları ve Yapay Zeka Uygulamaları Enstitüsü - TÜYZE

TÜRKİYE SAĞLIK ENSTİTÜLERİ BAŞKANLIĞI