

Assoc. Prof. Gökhan BİLGİN

Personal Information

Office Phone: [+90 212 383 5778](tel:+902123835778)

Fax Phone: [+90 212 383 5732](tel:+902123835732)

Web: <https://www3.yildiz.edu.tr/~gbilgin>

Address: Yıldız Teknik Üniversitesi, Davutpaşa Kampüsü, Bilgisayar Mühendisliği Bölümü, 34220 Esenler, İstanbul.

Biography

Gokhan Bilgin received B.Sc., M.Sc., and Ph.D. degrees in Electronics and Telecommunication Engineering from Yıldız Technical University (YTU), İstanbul, Turkey, in 1999, 2003, and 2009, respectively. He worked as post-doctorate researcher at Computer Aided Diagnosis and Knowledge Discovery Laboratory (CADKD) of the Department of Computer and Information Science at Indiana University–Purdue University Indianapolis (IUPUI). He is currently working as Associate Professor in Department of Computer Engineering at Yıldız Technical University. His research interests are in the areas of image and signal processing, machine learning, and pattern recognition with applications to biomedical engineering and remote sensing. He is the founder of Signal and Image Processing Laboratory (SIMPLAB, www.simplab.yildiz.edu.tr) in Department of Computer Engineering at Yıldız Technical University.

Education Information

Doctorate, Yıldız Teknik Üniversitesi, Elektrik Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, Turkey 2003 - 2009

Postgraduate, Yıldız Teknik Üniversitesi, Elektrik Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, Turkey 2000 - 2003

Undergraduate, Yıldız Teknik Üniversitesi, Elektrik Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, Turkey 1995 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Unsupervised Segmentation of Hyperspectral Images, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Elektronik Ve Haberleşme Mühendisliği, 2009

Postgraduate, Image Compression with Wavelet Transform and Set Partitioning in Hierarchical Trees Method, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Elektronik Ve Haberleşme Mühendisliği, 2003

Research Areas

Earth Observations (Remote Sensing), Information Systems, Communication and Control Engineering, Signal Processing, Image and Video Processing, Pattern Recognition and Analysis, Computer Sciences, Computer Vision, Equipment, Artificial Intelligence, Computer Learning and Pattern Recognition, Biomedical Engineering, Electrical and Electronics

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2017 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2010 - 2017

Research Assistant PhD, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2009 - 2010

Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2005 - 2009

Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2001 - 2004

Academic and Administrative Experience

Yıldız Teknik Üniversitesi, Bilgisayar Mühendisliği Bölümü, 2005 - Continues

Advising Theses

BİLGİN G., Histopatolojik Görüntülerde Topluluk Öğrenme Yöntemleri, Doctorate, K.Güzel(Student), Continues

Balık Şanlı F., Bilgin G., The Usability of Polarimetric SAR Images for Crop Pattern Identification:Comparative Analysis, Doctorate, M.ÜSTÜNER(Student), Continues

Serbes A., Bilgin G., Performance Analysis of Speaker Diarization Methods, Postgraduate, M.MESUT(Student), Continues

BİLGİN G., A Comparison of Machine Learning Algorithms on Image Despeckling and Classification on Polarimetric SAR Images, Doctorate, Ü.Gökdağ(Student), Continues

BİLGİN G., Hiperspektral Görüntü Analizi için İleri Spektral ve Uzamsal Yöntemler, Doctorate, İ.Onur(Student), Continues

BİLGİN G., Cancer Detection from High Resolutional Histopathological Images, Doctorate, Ö.Faruk(Student), Continues

Bilgin G., Histopatolojik Görüntülerin Derin Öğrenme Algoritmaları ile Bölütlenmesi, Doctorate, N.Hatipoğlu(Student), Continues

Bilgin G., Histopatolojik Görüntülerde Çoklu Örnekli Öğrenme ile Hücre Bölütleme, Postgraduate, S.KAYA(Student), 2019

Bilgin G., Detection and Classification of Nuclei in Histopathological Images, Postgraduate, R.SAFI(Student), 2019

Bilgin G., Audio Fingerprinting Using Wavelet Transform, Postgraduate, E.KANALICI(Student), 2019

BİLGİN G., Hiperspektral Görüntülerde Yarı-Güdümlü Öğrenme Teknikleri, Doctorate, M.Said(Student), 2019

BİLGİN G., Hiperspektral Görüntülerin Topluluk Öğrenme Yöntemleri ile Sınıflandırılması, Doctorate, U.Ergül(Student), 2019

BİLGİN G., Histopatolojik Görüntülerin Makine Öğrenmesi Yöntemleri ile Analizi, Doctorate, A.Albayrak(Student), 2018

BİLGİN G., Biyomedikal İşaret ve Görüntülerde Görgül Kip Ayrışımı, Postgraduate, Ö.Faruk(Student), 2015

BİLGİN G., Histopatolojik Görüntülerde Mitoz Belirleme, Postgraduate, A.Albayrak(Student), 2013

BİLGİN G., Hiperspektral Görüntülerde Spektral Ve Uzamsal Enformasyonun Ortaklaşa Kullanımı İle Sınıflandırılması Ve Bölütlenmesi, Postgraduate, U.Ergül(Student), 2013

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

- I. **A whole-slide image grading benchmark and tissue classification for cervical cancer precursor lesions with inter-observer variability**

Albayrak A., Akhan A. U. , ÇALIK N., Çapar A., BİLGİN G., Töreyn B. U. , Muezzinoglu B., Turkmen I., Durak Ata L. MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol.59, pp.1545-1561, 2021 (Journal Indexed in SCI)

- II. **SAR image classification post-processing with multiscale complementary Gaussian kernel weighting**
Gökdağ Ü., Bilgin G.

Signal Image And Video Processing, vol.1, no.1, pp.1-9, 2021 (Journal Indexed in SCI Expanded)

- III. **Detection of mitotic cells in breast cancer histopathological images using deep versus handcrafted features**
Sigirci I. O. , Albayrak A., Bilgin G.
Multimedia Tools And Applications, vol.1176, pp.1-24, 2021 (Journal Indexed in SCI Expanded)
- IV. **Semi-supervised sparse representation classifier ((SRC)-R-3) with deep features on small sample sized hyperspectral images**
Aydemir M. S. , Bilgin G.
NEUROCOMPUTING, vol.399, pp.213-226, 2020 (Journal Indexed in SCI)
- V. **MCK-ELM: multiple composite kernel extreme learning machine for hyperspectral images**
Ergul U., Bilgin G.
NEURAL COMPUTING & APPLICATIONS, vol.32, pp.6809-6819, 2020 (Journal Indexed in SCI)
- VI. **Semisupervised Hyperspectral Image Classification Using Deep Features**
Aydemir M. S. , Bilgin G.
IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, vol.12, pp.3615-3622, 2019 (Journal Indexed in SCI)
- VII. **HCKBoost: Hybridized composite kernel boosting with extreme learning machines for hyperspectral image classification**
Ergul U., Bilgin G.
NEUROCOMPUTING, vol.334, pp.100-113, 2019 (Journal Indexed in SCI)
- VIII. **Automatic cell segmentation in histopathological images via two-staged superpixel-based algorithms**
Albayrak A., Bilgin G.
MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol.57, no.3, pp.653-665, 2019 (Journal Indexed in SCI)
- IX. **Multiple-instance ensemble learning for hyperspectral images**
Ergul U., Bilgin G.
JOURNAL OF APPLIED REMOTE SENSING, vol.11, 2017 (Journal Indexed in SCI)
- X. **Cell segmentation in histopathological images with deep learning algorithms by utilizing spatial relationships**
Hatipoglu N., Bilgin G.
MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol.55, pp.1829-1848, 2017 (Journal Indexed in SCI)
- XI. **Semisupervised Hyperspectral Image Classification Using Small Sample Sizes**
AYDEMİR M. S. , BİLGİN G.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol.14, no.5, pp.621-625, 2017 (Journal Indexed in SCI)
- XII. **Integration of spectral and spatial information via local covariance matrices for segmentation and classification of hyperspectral images**
Ergul U., Bilgin G.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.6, pp.4824-4838, 2016 (Journal Indexed in SCI)
- XIII. **Kernel Fukunaga-Koontz Transform Subspaces for Classification of Hyperspectral Images With Small Sample Sizes**
Binol H., BİLGİN G., Dinc S., Bal A.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol.12, no.6, pp.1287-1291, 2015 (Journal Indexed in SCI)
- XIV. **Enhancing land use classification with fusing dual-polarized TerraSAR-X and multispectral RapidEye data**
Abdikan S., BİLGİN G., Sanli F. B. , USLU E., ÜSTÜNER M.
JOURNAL OF APPLIED REMOTE SENSING, vol.9, 2015 (Journal Indexed in SCI)
- XV. **Segmentation of Hyperspectral Images via Subtractive Clustering and Cluster Validation Using One-Class Support Vector Machines**
BİLGİN G., ERTÜRK S., YILDIRIM T.
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol.49, no.8, pp.2936-2944, 2011 (Journal Indexed in SCI)

- XVI. **Computerized Classification of Intraductal Breast Lesions Using Histopathological Images**
Dundar M. M. , Badve S., Bilgin G., Raykar V., Jain R., Sertel O., Gurcan M. N.
IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, vol.58, no.7, pp.1977-1984, 2011 (Journal Indexed in SCI)
- XVII. **Unsupervised Classification of Hyperspectral-Image Data Using Fuzzy Approaches That Spatially Exploit Membership Relations**
Bilgin G., ERTÜRK S., Yildirim T.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol.5, no.4, pp.673-677, 2008 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Classification of Breast Cancer Images Using Ensembles of Transfer Learning**
Güzel K., Bilgin G.
Sakarya University Journal of Science, vol.24, no.5, pp.791-802, 2020 (International Refereed University Journal)
- II. **Hafif Gradyan Artırma Makineleri ile Tarımsal Ürünlerin Sınıflandırılması**
Üstüner M., Abdikan S., Bilgin G., Balık Şanlı F.
Turkish Journal of Remote Sensing and GIS, vol.1, no.2, pp.97-105, 2020 (Other Refereed National Journals)
- III. **Scattering Wavelet Hash Fingerprints for Musical Audio Recognition**
Kanalıcı E., Bilgin G.
International Journal of Innovative Technology and Exploring Engineering, vol.8, pp.1011-1015, 2019 (Refereed Journals of Other Institutions)
- IV. **Serviks Kanserinin Erken Teşhisi için Çok Katmanlı Sitoloji Küplerinde Çekirdek ve Sitoplazma Bölütlenmesi**
Melek C. G. , Bilgin G.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.22, no.2, pp.727-735, 2018 (National Refreed University Journal)
- V. **Sleep stage classification via ensemble and conventional machine learning methods using single channel EEG signals**
Ilhan H. O. , Bilgin G.
International Journal of Intelligent Systems and Applications in Engineering, vol.5, no.4, pp.174-184, 2017 (Refereed Journals of Other Institutions)
- VI. **Sleep Apnea Detection Using Adaptive Neuro Fuzzy Inference System**
Avcı C., Bilgin G.
Engineering, vol.5, pp.259-263, 2013 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Cell Segmentation in Triple-Negative Breast Cancer Histopathological Images Using U-Net Architecture**
BAĞDİKEN M. E. , BİLGİN G.
2020 28th Signal Processing and Communications Applications Conference (SIU), Gaziantep, Turkey, 5 - 07 October 2020, pp.1-4
- II. **Classification of Breast Cancer Histopathology Images by Cell-Centered Deep Learning Approach**
EĞRİBOZ E., GÖKÇEN B., BİLGİN G.
2020 28th Signal Processing and Communications Applications Conference (SIU), Gaziantep, Turkey, 5 - 07 October 2020, pp.1-4
- III. **Speaker Diarization using Embedding Vectors**
TORUK M. M. , BİLGİN G., SERBES A.
2020 28th Signal Processing and Communications Applications Conference (SIU), Gaziantep, Turkey, 5 - 07 October 2020, pp.1-4

- IV. **Feature Extraction with Bidirectional Encoder Representations from Transformers in Hyperspectral Images**
SİĞİRCİ İ. O. , BİLGİN G., HAKAN Ö.
2020 28th Signal Processing and Communications Applications Conference (SIU), Gaziantep, Turkey, 5 - 07 October 2020, pp.1-4
- V. **Comparison of Variational Mode Decomposition and Empirical Mode Decomposition Features for Cell Segmentation in Histopathological Images**
KARAASLAN Ö. F. , BİLGİN G.
2020 Medical Technologies Congress (TIPTEKNO), Antalya, Turkey, 19 - 20 November 2020, pp.1-4
- VI. **Transfer Learning Methods for Using Textural Features in Histopathological Image Classification**
ÇETİNDAG S. C. , GURAN K., BİLGİN G.
2020 Medical Technologies Congress (TIPTEKNO), Antalya, Turkey, 19 - 20 November 2020, pp.1-4
- VII. **Classification of Malignant Lymphoma Types Using Convolutional Neural Network**
HATİPOĞLU N., BİLGİN G.
2020 Medical Technologies Congress (TIPTEKNO), Antalya, Turkey, 19 - 20 November 2020, pp.1-4
- VIII. **À Trous Wavelet Decomposition Based Hyperspectral Image Classification**
Genç F. Z. , Bilgin G.
IEEE Innovations in Intelligent Systems and Applications Conference (ASYU 2020), İstanbul, Turkey, 15 - 17 October 2020, pp.1-4
- IX. **Speech Segmentation and Speaker Diarization using Time-Delay Neural Network**
TORUK M., SERBES A., BİLGİN G.
IEEE Innovations in Intelligent Systems and Applications Conference (ASYU 2019), İzmir, Turkey, 31 October - 02 November 2019, pp.1-5
- X. **Visual Saliency Aided SAR and Optical Image Matching**
ÇITAK E., BİLGİN G.
IEEE Innovations in Intelligent Systems and Applications Conference (ASYU 2019), İzmir, Turkey, 31 October - 02 November 2019, pp.1-5
- XI. **Classification of Cell Types on Histopathological Images Using Local Binary Patterns**
OZER H. S. , DEMİR C., BİLGİN G.
IEEE Medical Technologies Congress (TIPTEKNO 2019), Aydın, Turkey, 3 - 05 October 2019, pp.1-4
- XII. **Classification of Nuclei in Colon Cancer Images using Ensemble of Deep Learned Features**
GUZEL K., BİLGİN G.
IEEE Medical Technologies Congress (TIPTEKNO 2019), Aydın, Turkey, 3 - 05 October 2019, pp.1-4
- XIII. **Detection and Grading of Breast Cancer via Spatial Features in Histopathological Images**
BAGDIKEN M. E. , BİLGİN G.
IEEE Medical Technologies Congress (TIPTEKNO 2019), Aydın, Turkey, 3 - 05 October 2019, pp.1-4
- XIV. **Classification of Different Tissue Types in Histopathological Images with Conventional and Deep Learning Methods**
ARAFAL N., BAYRAMOĞLU O. Z. , BİLGİN G.
IEEE Medical Technologies Congress (TIPTEKNO 2019), Aydın, Turkey, 3 - 05 October 2019, pp.1-4
- XV. **Cell Segmentation Using Multiple Instance Learning Based Support Vector Machines**
KAYA S., BİLGİN G.
IEEE Medical Technologies Congress (TIPTEKNO 2019), Aydın, Turkey, 3 - 05 October 2019, pp.1-4
- XVI. **Mitosis Detection in Multispectral Histopathological Images with Deep Learning**
HAZRATOV S., BİLGİN G.
IEEE Medical Technologies Congress (TIPTEKNO 2019), Aydın, Turkey, 3 - 05 October 2019, pp.1-4
- XVII. **A Booster Analysis of Extreme Gradient Boosting for Crop Classification using PolSAR Imagery**
ÜSTÜNER M., BALIK ŞANLI F., ABDİKAN S., GÖKSEL Ç., BİLGİN G.
IEEE 8th International Conference on Agro-Geoinformatics (Agro-Geoinformatics 2019), İstanbul, Turkey, Turkey, 16 - 19 July 2019, pp.1-4
- XVIII. **Music Genre Classification via Sequential Wavelet Scattering Feature Learning**

KANALICI E., BİLGİN G.

The 12th International Conference on Knowledge Science, Engineering and Management (KSEM 2019), Athens, Greece, 28 - 30 August 2019, vol.11776, pp.365-372

- XIX. **Classification of FTIR Spectra of Olive Oil with Features of Variational Mode Decomposition and Wavelet Transform**
KARAASLAN Ö. F. , BİLGİN G.
IEEE 27th Signal Processing and Communications Applications Conference (SIU 2019), Sivas, Turkey, 24 - 26 April 2019, pp.1-4
- XX. **Use of Spatial Information via Markov and Conditional Random Fields in Histopathological Images**
JAMAL S. B. , BİLGİN G.
IEEE 42nd International Conference on Telecommunications and Signal Processing (TSP 2019), Budapest, Hungary, 1 - 03 July 2019, pp.71-75
- XXI. **Nuclei Classification in Histopathological Images via Local Phase Quantization and Convolutional Neural Network**
Abed Alah R. S. , BİLGİN G.
IEEE Scientific Meeting on Electrical-Electronics Biomedical Engineering and Computer Science (EBBT 2019) , İstanbul, Turkey, 24 - 26 April 2019, pp.1-5
- XXII. **Textural feature extraction and multiple instance learning for cell segmentation in histopathological images**
KAYA S., BİLGİN G.
IEEE Scientific Meeting on Electrical-Electronics Biomedical Engineering and Computer Science (EBBT 2019), İstanbul, Turkey, 24 - 26 April 2019, pp.1-6
- XXIII. **Semantic nuclei segmentation with deep learning on breast pathology images**
TURAN S., BİLGİN G.
IEEE Scientific Meeting on Electrical-Electronics Biomedical Engineering and Computer Science (EBBT 2019), İstanbul, Turkey, 24 - 26 April 2019, vol.1
- XXIV. **Pre-trained Classification of Hyperspectral Images Using Denoising Autoencoders and Joint Features**
Kanalici E., BİLGİN G.
Proceedings of the 2019 2nd International Conference on Geoinformatics and Data Analysis (ICGDA 2019), Prague, Czech Republic, 15 - 17 March 2019, pp.66-70
- XXV. **Automatic Nuclei Detection in Histopathological Images based on Convolutional Neural Networks**
Abed Alah R. S. , BİLGİN G., ALBAYRAK A.
Proceedings of the 12th International Joint Conference on Biomedical Engineering Systems and Technologies (Biosignals 2019), Prague, Czech Republic, 22 - 24 February 2019, vol.4, pp.193-200
- XXVI. **Lenfoma Histopatolojik Görüntülerinin Uzamsal Özellik Tanımlayıcıları Temelinde Evrimsel Yapay Sinir Ağı ile Sınıflandırılması**
ARPACI S. A. , BİLGİN G.
Elektrik, Elektronik ve Biyomedikal Mühendisliği Konferansı, ELECO'18, Bursa, Turkey, 29 November - 01 December 2018, pp.1-5
- XXVII. **Histopatolojik Görüntülerde Kodlayıcı-Çözücü Tabanlı Derin Öğrenme Algoritması ile Hücresel Yapıların Bölütlenmesi; Segmentation of Cellular Structures with Encoder-Decoder Based Deep Learning Algorithm in Histopathological Images**
ALBAYRAK A., BİLGİN G.
IEEE Tıp Teknolojileri Kongresi TipTekno'18 - IEEE Medical Technologies Congress, Gazi Magosa, Cyprus (Kkct), 08 November 2018, pp.218-221
- XXVIII. **Histopatolojik Görüntülerde Kodlayıcı-Çözücü Tabanlı Derin Öğrenme Algoritması ile Hücresel Yapıların Bölütlenmesi**
ALBAYRAK A., BİLGİN G.
IEEE Tıp Teknolojileri Kongresi, TipTekno'18, Gazi Magosa, Cyprus (Kkct), 8 - 10 November 2018, pp.218-221
- XXIX. **An application of roll-invariant polarimetric features for crop classification from multi-temporal RADARSAT-2 SAR data**

ÜSTÜNER M., Sanli F., Abdikan S., ESETLİLİ M. T. , BİLGİN G.

2018 ISPRS Technical Commission I Midterm Symposium on Innovative Sensing - From Sensors to Methods and Applications, Karlsruhe, Germany, 10 - 12 October 2018, vol.42, pp.451-456

- XXX. **A Hybrid Method of Superpixel Segmentation Algorithm and Deep Learning Method in Histopathological Image Segmentation**
Albayrak A., BİLGİN G.
2018 IEEE International Conference on Innovations in Intelligent Systems and Applications, INISTA 2018, Thessaloniki, Greece, 3 - 05 July 2018
- XXXI. **Classification of tumor regions in histopathological images using convolutional neural networks**
GÜNDÜZ K., ALBAYRAK A., BİLGİN G., KARSLIGİL YAVUZ M. E.
26th Signal Processing and Communications Applications Conference (SIU), Izmir, Turkey, Turkey, 2 - 05 May 2018, pp.1-4
- XXXII. **Textural feature extraction and ensemble of extreme learning machines for hyperspectral image classification Hiperspektral Görüntülerin Sınıflanması için Dokusal Özellik Çıkarımı ve Asiri Öğrenme Makinelerinin Topluluğu**
Guzel K., BİLGİN G.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- XXXIII. **Kernel extreme learning machines for PolSAR image classification using spatial features Uzamsal Öznitelikler Kullanılarak Çekirdek Tabanlı aşiri Öğrenme Makineleri ile PolSAR Görüntüsü Sınıflandırılması**
GÖKDAĞ Ü., ÜSTÜNER M., BİLGİN G., BALIK ŞANLI F.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- XXXIV. **Classification of hyperspectral images with multiple kernel extreme learning machine Hiperspektral Görüntülerin Çoklu Çekirdek aşiri Öğrenme Makinesi ile Sınıflandırılması**
Ergul U., BİLGİN G.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- XXXV. **Comparing the classification performances of supervised classifiers with balanced and imbalanced SAR data sets Eğitici Sınıflandırma Yöntemlerinin Dengeli ve Dengesiz SAR Veri Kümelerindeki Başarımlarının Karşılaştırılması**
ÜSTÜNER M., GÖKDAĞ Ü., BİLGİN G., BALIK ŞANLI F.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- XXXVI. **Histopatolojik Görüntülerde Tümörlü Bölgelerin Evrimsel Sinir Ağlarıyla Sınıflandırılması; Classification of Tumor Regions in Histopathological Images Using Convolutional Neural Networks**
Gunduz K., ALBAYRAK A., BİLGİN G., KARSLIGİL YAVUZ M. E.
IEEE 26th Conf. on Signal Processing and Communications Applications, İzmir, Turkey, 02 May 2018, pp.1-4
- XXXVII. **Eğitici Sınıflandırma Yöntemlerinin Dengeli ve Dengesiz SAR Veri Kümelerindeki Başarımlarının Karşılaştırılması; Comparing the Classification Performances of Supervised Classifiers with Balanced and Imbalanced SAR Data Sets**
ÜSTÜNER M., Gökdağ U., BİLGİN G., BALIK ŞANLI F.
IEEE 26th Conf. on Signal Processing and Communications Applications, İzmir, Turkey, 02 May 2018, pp.1-4
- XXXVIII. **Uzamsal Öznitelikler Kullanılarak Çekirdek Tabanlı Aşırı Öğrenme Makineleri ile PolSAR Görüntüsü Sınıflandırılması; Kernel Extreme Learning Machines for PolSAR Image Classification using Spatial Features**
Gökdağ Ü., ÜSTÜNER M., BİLGİN G., BALIK ŞANLI F.
IEEE 26th Conf. on Signal Processing and Communications Applications, İzmir, Turkey, 02 May 2018, pp.1-4
- XXXIX. **Face recognition using graph extreme learning machine with L21 norm regularization**
Abd Shehab M., KAHRAMAN N., BİLGİN G.

10th International Conference on Electrical and Electronics Engineering (ELECO), 30 November - 02 December 2017

- XL. **Hyperspectral Image Classification Using Reduced Extreme Learning Machine**
SIĞIRCI İ. O. , BİLGİN G.
3rd International Conference on Computer Science and Engineering (UBMK), Sarajevo, Bosnia And Herzegovina, 20 - 23 September 2018, pp.372-375
- XLl. **Graph Extreme Learning Machine with L₂₁-norm Regularization for Face Recognition**
Abd Shehab M., KAHRAMAN N., BİLGİN G.
10th International Conference on Electrical and Electronics Engineering, ELECO'17, Bursa, Turkey, 30 November - 02 December 2017
- XLII. **Classification of Sentinel-1A SAR Data Using Principal Component Analysis and Kernel PrincipalComponent Analysis"**
ÜSTÜNER M., BİLGİN G., BALIK ŞANLI F.
INTERNATIONAL SYMPOSIUM ON GIS APPLICATIONSIN GEOGRAPHY AND GEOSCIENCES, 18 October - 21 November 2017
- XLIII. **Histopatolojik Görüntülerde Gabor Filtresi Tabanlı Özniteliklerle Hücre Tespiti**
BAGDIKEN M. E. , BİLGİN G.
21. Biyomedikal Mühendisliği Ulusal Toplantısı, BIYOMUT'17, İstanbul, Turkey, 24 - 26 November 2017
- XLIV. **Histopatolojik Görüntülerde Hücre Sınıflandırılması için İstatistiksel-Uzamsal Yaklaşım**
ERSEVEN M., BİLGİN G.
21. Biyomedikal Mühendisliği Ulusal Toplantısı, BIYOMUT'17, İstanbul, Turkey, 24 - 26 November 2017
- XLV. **Derin Öğrenme ve Sezgisel Optimizasyon ile Histopatolojik Görünülerde Çekirdek Merkezlerinin Bulunması**
KOYUN O. C. , BİLGİN G.
21. Biyomedikal Mühendisliği Ulusal Toplantısı, BIYOMUT'17, İstanbul, Turkey, 24 - 26 November 2017
- XLVI. **Histopatolojik Görüntülerde Gabor Filtresi Tabanlı Özniteliklerle Hücre Tespiti; Cell Detection with Gabor Filter-Based Features in Histopathologic Images**
Bagdiken M. E. , BİLGİN G.
21. Biyomedikal Mühendisliği Ulusal Toplantısı, BIYOMUT'17 – 21st National Biomedical Engineering Conference, İstanbul, Turkey, 24 November 2017, pp.1-4
- XLVII. **Histopatolojik Görüntülerde Hücre Sınıflandırılması için İstatistiksel-Uzamsal Yaklaşım; Statistical-Spatial Approach for Cell Classification in Histopathological Imagery10.1109/**
Erseven M., Bilgin G.
21. Biyomedikal Mühendisliği Ulusal Toplantısı, BIYOMUT'17 – 21st National Biomedical Engineering Conference, İstanbul, Turkey, 24 November 2017, pp.1-4
- XLVIII. **Derin Öğrenme ve Sezgisel Optimizasyon ile Histopatolojik Görünülerde Çekirdek Merkezlerinin Bulunması; Nuclei Detection in Histopathological Images with Deep Learning and Heuristic Optimization 10.1109/**
Koyun O. C. , BİLGİN G.
21. Biyomedikal Mühendisliği Ulusal Toplantısı, BIYOMUT'17 – 21st National Biomedical Engineering Conference, İstanbul, Turkey, 24 November 2017, pp.1-4
- XLIX. **2D2PCA-based hyperspectral image classification with utilization of spatial information**
Aydemir M. S. , BİLGİN G.
5th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing, WHISPERS 2013, Florida, United States Of America, 26 - 28 June 2013
- L. **Multiscale local covariance based feature extraction for segmantation of hyperspectral images**
Ergul U., BİLGİN G.
5th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing, WHISPERS 2013, Florida, United States Of America, 26 - 28 June 2013
- LI. **Büyük Boyutlu Medikal Görüntülerin Evrişimsel Sinir Ağlarıyla Sınıflandırılması**
ALBAYRAK A., BİLGİN G.

5th National High Performance Computing Conference, İstanbul, Turkey, 14 - 15 September 2017

- LII. **Büyük Boyutlu Medikal Görüntülerin Evrışimsel Sinir Ağlarıyla Sınıflandırılması; Classification of Large-Scale Medical Images with Convolutional Neural Networks**
ALBAYRAK A., BİLGİN G.
5.Ulusal Yüksek Başarımlı Hesaplama Konferansı – 5th National High Performance Computing Conference, İstanbul, Turkey, 14 September 2017, pp.1-4
- LIII. **Segmentation of precursor lesions in cervical cancer using convolutional neural networks Rahim Ağzi (Serviks) Kanserinde Öncü Lezyonların Evrışimsel Sinir Ağlarıyla Bölütlenmesi**
Albayrak A., Unlu A., ÇALIK N., BİLGİN G., Turkmen I., Cakir A., Çapar A., Töreyn B. U. , Ata L. D.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- LIV. **Land use and cover classification of Sentinel-1A SAR imagery: A case study of Istanbul Sentinel-1A SAR Görüntüsü ile Arazi Örtüsü ve Kullanimi Siniflandirmasi: Istanbul Örneği**
ÜSTÜNER M., Sanli F. B. , BİLGİN G., Abdikan S.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- LV. **Hyperspectral image classification using fuzzy C-means based composite kernel approach Bulanik C-Ortalamlar Tabanlı Kompozit Kernel Yaklaşımı Kullanılarak Hiperspektral Görüntülerin Sınıflandırılması**
SİĞİRCİ İ. O. , BİLGİN G.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- LVI. **Superpixel approach in high resolution histopathological image segmentation Yüksek Çözünürlüklü Histopatolojik Görüntülerinin Bölütlenmesinde Süerpiksel Yaklaşımı**
Albayrak A., BİLGİN G.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- LVII. **Combining Landsat and ALOS data for land cover mapping Landsat ve ALOS Verilerini Kullanarak Arazi Örtüsü Haritasinin Oluşturulması**
Abdikan S., ÜSTÜNER M., Sanli F., BİLGİN G.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- LVIII. **Hyperspectral image classification with hybrid kernel extreme learning machine Hiperspektral Görüntülerin Melez Çekirdek Aşırı Öğrenme Makinesi ile Sınıflanması**
Ergul U., BİLGİN G.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- LIX. **Graph-based semi-supervised learning with GPU on small sample sized hyperspectral images Küçük Örnek Sayılı Hiperspektral Görüntülerde GPU ile Çizge Tabanlı Yarı-güdümlü Öğrenme**
Aydemir M. S. , BİLGİN G.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- LX. **Detection of mitotic cells in multispectral histopathological images Multispektral Histopatolojik Görüntülerde Mitozlu Hücre Tespiti**
ÇUKUR H., BİLGİN G.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- LXI. **Gerçek Zamanlı EKG İşaretlerinin Mobil Sistemde İzlenmesi**
YÜKSEL B. B. , YAZICI P., BİLGİN G.
2. Ulusal Biyomedikal Cihaz Tasarımı ve Üretimi Sempozyumu, İstanbul, Turkey, 16 May 2017
- LXII. **Gerçek Zamanlı EKG İşaretlerinin Mobil Sistemde İzlenmesi; Monitoring Real-Time ECG Signals in the Mobile System**
Yuksel B. B. , Yazıcı P., BİLGİN G.
2. Ulusal Biyomedikal Cihaz Tasarımı ve Üretimi Sempozyumu - The 2nd National Biomedical Device Design and Production Symposium, İstanbul, Turkey, 16 May 2017, pp.61-64
- LXIII. **Land Use and Cover Classification of Sentinel-1A SAR Imagery: A Case Study of Istanbul**
ÜSTÜNER M., Sanli F. B. , BİLGİN G., Abdikan S.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- LXIV. **Combining Landsat and ALOS Data for Land Cover Mapping**

- Abdikan S., ÜSTÜNER M., Sanli F. B. , BİLGİN G.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- LXV. **Nucleus and Cytoplasm Segmentation in Multilayered Cytology Cubes for Early Detection of Cervical Cancer**
MELEK C. G. , BİLGİN G.
20. Biyomedikal Mühendisliği Ulusal Toplantısı, İzmir, Turkey, 3 - 05 November 2016, pp.105-109
- LXVI. **Local Averaging Based Feature Extraction on Hyperspectral Image Data**
Gokdag U., BİLGİN G.
17th IEEE International Symposium on Computational Intelligence and Informatics (CINTI), Budapest, Hungary, 17 - 19 November 2016, pp.157-161
- LXVII. **Feature Extraction for Histopathological Images Using Convolutional Neural Network**
Hatipoglu N., BİLGİN G.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.645-648
- LXVIII. **Semi-supervised Classification of Hyperspectral Images with Small Sample Sizes**
Aydemir M. S. , BİLGİN G.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.681-684
- LXIX. **Multiple Instance Bagging Based Ensemble Classification of Hyperspectral Images**
Ergul U., BİLGİN G.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.757-760
- LXX. **Hyperspectral Image Classification Using Spatial Features Extracted by Fuzzy C-Means and Dirichlet Mixture Model**
SİĞİRCİ İ. O. , BİLGİN G.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.897-900
- LXXI. **Mitosis Detection Using Convolutional Neural Network Based Features**
Albayrak A., BİLGİN G.
17th IEEE International Symposium on Computational Intelligence and Informatics (CINTI), Budapest, Hungary, 17 - 19 November 2016, pp.335-339
- LXXII. **Effects of Color Spaces to the Cell Segmentation in Histopathological Images**
Albayrak A., BİLGİN G.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.829-832
- LXXIII. **Detection of Mitotic Cells Using Completed Local Binary Pattern in Histopathological Images**
SİĞİRCİ İ. O. , Albayrak A., BİLGİN G.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1078-1081
- LXXIV. **A Comparative Study on Manifold Learning of Hyperspectral Data for Land Cover Classification**
Ozturk C. N. , BİLGİN G.
6th International Conference on Graphic and Image Processing (ICGIP), Beijing, China, 24 - 26 October 2014, vol.9443
- LXXV. **Multiple Instance Bagging Approach for Ensemble Learning Methods on Hyperspectral Images**
Ergul U., BİLGİN G.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.403-406
- LXXVI. **Comparative Analysis of Codeword Representation by Clustering Methods for the Classification of Histological Tissue Types**
Saygili A., Uysal G., Bilgin G.
8th International Conference on Machine Vision (ICMV), Barcelona, Spain, 19 - 21 November 2015, vol.9875

- LXXXVII. **Segmentation of Histopathological Images with Convolutional Neural Networks using Fourier Features**
Hatipolu N., BİLGİN G.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.455-458
- LXXXVIII. **Combination of Sparse and Semi-Supervised Learning for Classification of Hyperspectral Images**
Aydemir M. S. , BİLGİN G.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.592-595
- LXXXIX. **Classification of histopathological images using convolutional neural network**
Hatipoglu N., BİLGİN G.
4th International Conference on Image Processing Theory, Tools and Applications, IPTA 2014, Paris, France, 14 - 17 October 2014
- LXXX. **Mitosis detection on histopathological images using statistical detection algorithms İstatistiksel Tespit Algoritmaları ile Histopatolojik Görüntülerde Mitoz Belirleme**
ÜSTÜNER M., BİLGİN G.
2015 23rd Signal Processing and Communications Applications Conference, SIU 2015, Malatya, Turkey, 16 - 19 May 2015, pp.540-543
- LXXXI. **Sentetik Açıklık Radar ve Multispektral Uydu Verilerinin Kaynaştırılması ve Sınıflandırılması**
BAKIRMAN T., BİLGİN G., BALIK ŞANLI F., USLU E., ÜSTÜNER M.
IEEE 22. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Trabzon, Turkey, 23 - 25 May 2014
- LXXXII. **Sentetik Açıklık Radar ve Multispektral Uydu Verilerinin Kaynaştırılması ve Sınıflandırılması - Fusion and Classification of Synthetic Aperture Radar and Multispectral Satellite Data**
BİLGİN G., Sanli F. B. , Uslu E., Ustuner M.
IEEE 22nd Conf. on Signal Processing and Communications Applications, Trabzon, Turkey, 23 April 2014, pp.754-757
- LXXXIII. **Hiperspektral Görüntü Sıkıştırma Yöntemlerinin Karşılaştırılması**
PARLAK C., BİLGİN G.
IEEE 22. Sinyal İşleme ve Uygulamaları Kurultayı (SIU 2014), Trabzon, Turkey, 23 - 25 April 2014, pp.200-203
- LXXXIV. **ECG Classification with Empirical Mode Decomposition Denoised by Wavelet Transform**
KARAASLAN Ö. F. , BİLGİN G.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.694-697
- LXXXV. **Detection of churned and retained users with machine learning methods for mobile applications**
Gençer M., BİLGİN G., Zan Ö., Voyvodaoglu T.
3rd International Conference on Design, User Experience, and Usability: User Experience Design for Diverse Interaction Platforms and Environments, DUXU 2014, Held as Part of 16th International Conference on Human-Computer Interaction, HCI Int. 2014, Heraklion, Greece, 22 - 27 June 2014, pp.234-245
- LXXXVI. **Hyperspectral Image Segmentation Using The Dirichlet Mixture Models**
SİĞİRCİ İ. O. , BİLGİN G.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.983-986
- LXXXVII. **Fusion and Classification of Synthetic Aperture Radar and Multispectral Satellite Data**
BAKIRMAN T., BİLGİN G., Sanli F. B. , USLU E., ÜSTÜNER M.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.754-757
- LXXXVIII. **A new framework for increasing user engagement in mobile applications using machine learning techniques**
Gençer M., BİLGİN G., Zan Ö., Voyvodaoglu T.
2nd International Conference on Design, User Experience, and Usability: Web, Mobile, and Product Design, DUXU 2013, Held as Part of 15th International Conference on Human-Computer Interaction, HCI International 2013, Las

Vegas, NV, United States Of America, 21 - 26 July 2013, pp.651-659

- LXXXIX. **Histopatolojik Görüntülerin Bölütlenmesinde Uzamsal İlişkilerin Değerlendirilmesi - Evaluation of Spatial Relations in the Segmentation of Histopathological Images**
BİLGİN G.
IEEE 21st Conf. on Signal Processing and Communications Applications, Girne, Cyprus (Kkct), 24 April 2013, pp.126-129
- XC. **Histopatolojik Görüntülerin Bölütlenmesinde Uzamsal İlişkilerin Değerlendirilmesi**
BİLGİN G.
IEEE 21. Sinyal İşleme ve Uygulamaları Kurultayı (SIU 2013), Girne, Cyprus (Kkct), 24 - 26 April 2013, pp.1-4
- XCI. **Hiperspektral Görüntülerin Özuzayda Yerel Ortak Değişinti Matrisleri Kullanılarak Bölütlenmesi**
UĞUR E., BİLGİN G.
IEEE 21. Sinyal İşleme ve Uygulamaları Kurultayı (SIU 2013), Girne, Cyprus (Kkct), 24 - 26 April 2013
- XCII. **Yerel Kesirli Fourier Dönüşümü ile Aritmi Sınıflandırılması**
USLU E., BİLGİN G.
IEEE 21. Sinyal İşleme ve Uygulamaları Kurultayı (SIU 2013), Girne, Turkey, 24 - 26 April 2013
- XCIII. **Histopatolojik Görüntülerde Mitozlu Hücrelerin Dokusal Öznitelikler Kullanılarak Belirlenmesi**
ALBAYRAK A., BİLGİN G.
IEEE 21. Sinyal İşleme ve Uygulamaları Kurultayı (SIU 2013), Girne, Turkey, 24 - 26 April 2013
- XCIV. **Embolik Doppler Ultrasound Signal Detection via Fractional Fourier Transform**
Gencer M., BİLGİN G., AYDIN N.
35th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Osaka, Japan, 3 - 07 July 2013, pp.3050-3053
- XCV. **Breast Cancer Mitosis Detection in Histopathological Images with Spatial Feature Extraction**
Albayrak A., BİLGİN G.
6th International Conference on Machine Vision (ICMV), London, Canada, 16 - 17 November 2013, vol.9067
- XCVI. **Exploiting Locality Based Fourier Transform for ECG Signal Diagnosis**
USLU E., BİLGİN G.
17th International Conference on Applied Electronics (AE 2012), Pilsen, Czech Republic, 5 - 07 September 2012, pp.323-326
- XCVII. **Hiperspektral Görüntülerin Yerel Ortak-değişinti Matrisleri Kullanılarak Bölütlenmesi - Segmentation of Hyperspectral Images Using Local Covariance Matrices**
BİLGİN G., Uslu E.
IEEE 20th Conf. on Signal Processing and Communications Applications, Muğla, Turkey, 18 April 2012, pp.52-55
- XCVIII. **Hiperspektral Görüntülerin Yerel Ortak Değişinti Matrisleri Kullanılarak Bölütlenmesi**
BİLGİN G., USLU E.
IEEE 20. Sinyal İşleme ve Uygulamaları Kurultayı (SIU 2012), Muğla, Turkey, 18 - 20 April 2012
- XCIX. **One class support vector machines based cluster validity in the segmentation of hyperspectral images**
BİLGİN G., ERTÜRK S., YILDIRIM T.
SIU 2009. IEEE 17th Signal Processing and Communications Applications Conference, 2009, Turkey, 9 - 11 April 2009
- C. **Hiperspektral Görüntülerin Bölütlenmesinde Bir Sınıf Destek Vektör Makinesi Tabanlı Kümeleme Geçerliliği**
BİLGİN G., Erturk S., Yildirim T.
IEEE 17. Sinyal İşleme ve Uygulamaları Kurultayı (SIU 2009), Antalya, Turkey, 9 - 11 April 2009, pp.820-823
- CI. **Hiperspektral Görüntülerin Bulanık Yaklaşımlarla Bölütlenmesi**
BİLGİN G., Erturk S., Yildirim T.
IEEE 16. Sinyal İşleme ve Uygulamaları Kurultayı (SIU 2008), Aydın, Turkey, 20 - 22 April 2008
- CII. **Hiperspektral Görüntülerin Doğrusal Olmayan Yöntemlerle Boyutunun İndirgenmesi ve Bölütlenmesi**
BİLGİN G., Erturk S., Yildirim T.
IEEE 16. Sinyal İşleme ve Uygulamaları Kurultayı (SIU 2008), Aydın, Turkey, 20 - 22 April 2008

- CIII. **Dalgacık ve Birleşik Dalgacık Paket Dönüşümü Kullanarak Kalp Aritmilerinin Sınıflandırılması**
USLU E., BİLGİN G.
IEEE 16. Sinyal İşleme ve Uygulamaları Kurultayı (SIU 2008), Aydın, Turkey, 20 - 22 April 2008
- CIV. **Multiscale windowed denoising and segmentation of hyperspectral images**
Bilgin G., ERTÜRK S., Yildirim T.
IEEE International Conference on Computational Intelligence for Measurement Systems and Applications, İstanbul, Turkey, 14 - 16 July 2008, pp.33-34
- CV. **Effects of Data Reduction Methods on the Performance of Statistical Neural Networks in Medical Applications**
Bilgin G., Bolat B., Yildirim T.
International Conference on Electrical and Electronics Engineering (ELECO 2007), Bursa, Turkey, 5 - 09 December 2007, pp.136-139
- CVI. **A New Feature Extraction Technique Subspace Angular Transform SAT for Pattern Recognition**
BİLGİN G., Dinc T.
International Symposium on Innovations in Intelligent Systems and Applications (INISTA 2007), İstanbul, Turkey, 20 - 23 June 2007, pp.144-148
- CVII. **Breast Cancer Diagnosis by Using Active Learning PNN**
Bilgin G., Bolat B.
International Symposium on Innovations in Intelligent Systems and Applications (INISTA 2007), İstanbul, Turkey, 20 - 23 June 2007, pp.238-241
- CVIII. **Eş Zamanlı Konum Belirleme ve Harita Oluşturma Amaçlı Otonom Bir Robot**
Yavuz S., Amasyalı M. F. , Balçılar M., Bilgin G., Dinç T., Kurt Yavuz Z.
Elektrik Elektronik Bilgisayar Mühendisliği Sempozyumu (ELECO 2006), Bursa, Turkey, 6 - 10 December 2006, pp.225-229
- CIX. **Dalga Biçimlerinin Aktif Öğrenen Sinir Ağları ile Sınıflandırılması**
BİLGİN G., BOLAT B.
Otomatik Kontrol Türk Milli Komitesi 2006, Ankara, Turkey, 6 - 08 November 2006, pp.118-121
- CX. **Dalga Biçimlerin Aktif Öğrenen Olasılıksal Sinir Ağları ile Sınıflanması**
Bilgin G., Bolat B.
Otomatik Kontrol Türk Milli Komitesi, Otomatik Kontrol Ulusal Toplantısı (TOK'06), Ankara, Turkey, 6 - 08 November 2006, pp.118-121
- CXI. **Cardiac Problem Diagnosis Using SPECT Images with Statistical Neural Networks**
BİLGİN G., ALTUN O.
10th International Conference Artificial Intelligence and Soft Computing (IASTED 2006), Palma de Mallorca, Spain, 28 - 30 August 2006, pp.109-112
- CXII. **Cardiac problem diagnosis with statistical neural networks and performance evaluation by ROC analysis**
Bilgin G., ALTUN O.
International Conference on Applied Electronics, Pilsen, Czech Republic, 6 - 07 September 2006, pp.15-18
- CXIII. **Waveform Classification with Statistical Neural Networks**
BİLGİN G., Yildirim T.
11st International Applied Electronics Conference (AE 2005), Pilsen, Czech Republic, 7 - 08 September 2005, pp.45-47
- CXIV. **Dalgacık Dönüşümleri ve Hiyerarşik Ağaçlarda Küme Bölümlenme Yöntemi ile Görüntü Sıkıştırma**
BİLGİN G., Kucuk U.
IEEE 12. Sinyal İşleme ve Uygulamaları Kurultayı (SIU2004), Kusadasi, Turkey, 28 - 30 April 2004, pp.324-326

Supported Projects

BİLGİN G., TUBITAK Project, Histopatolojik Görüntülerde Farklı Dokuların Sınıflandırılması ve Hücre Bölütlenmesi, 2018

- Continues

BİLGİN G., Project Supported by Higher Education Institutions, Hiperspektral Görüntülerin Topluluk Öğrenme Yöntemleri ile Sınıflandırılması, 2016 - 2019

BİLGİN G., Project Supported by Higher Education Institutions, Hiperspektral Görüntülerde Yarı Güdümlü Öğrenme Teknikleri, 2016 - 2019

BİLGİN G., Project Supported by Higher Education Institutions, Yüksek Boyutlu İşaret ve Görüntülerin Grafik İşlem Birimleri ile Paralel Hesaplama Sistemi, 2014 - 2016

BİLGİN G., Project Supported by Other Official Institutions, İleri Görünteleme Teknolojileri (İGT) - TUYGUN Projesi-Hedef Tespiti Algoritma Geliştirilmesi, 2014 - 2015

BİLGİN G., Project Supported by Higher Education Institutions, Yıldız Teknik Üniversitesi GPS-tabanlı Servis Takip Sistemi (YTU-GPS-STs), 2013 - 2014

BİLGİN G., TUBITAK Project, Makine Öğrenme Algoritmalarını Kullanarak Mobil İstemcilerde Kullanıcı Etkileşimini Artıracak Mobil Uygulama Altyapısının Geliştirilmesi, 2012 - 2013

BİLGİN G., Other Supported Projects, Yeni Bakteri Patojenlerinin Etiketsiz Tespiti İçin Makine Öğrenmesi Yaklaşımı, 2010 - 2012

Scientific Refereeing

SIGNAL IMAGE AND VIDEO PROCESSING, Journal Indexed in SCI-E, July 2020

MULTIMEDIA TOOLS AND APPLICATIONS, Journal Indexed in SCI-E, May 2020

COMPUTERS IN BIOLOGY AND MEDICINE, Journal Indexed in SCI-E, April 2020

ARTIFICIAL INTELLIGENCE IN MEDICINE, Journal Indexed in SCI-E, March 2020

NEUROCOMPUTING, SCI Journal, January 2020

IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, October 2019

IEEE Access, SCI Journal, May 2019

Canadian Journal of Remote Sensing , SCI Journal, January 2019

Computer Methods and Programs in Biomedicine, SCI Journal, September 2018

Optical Engineering, SCI Journal, September 2018

IEEE Transactions on Medical Imaging, SCI Journal, July 2018

ISPRS Journal of Photogrammetry and Remote Sensing, SCI Journal, July 2018

Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, May 2018

IEEE Geoscience and Remote Sensing Letters, SCI Journal, March 2018

Remote Sensing Letters, SCI Journal, February 2018

Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, October 2017

IEEE Transactions on Geoscience and Remote Sensing, SCI Journal, July 2017

Journal of Applied remote Sensing, SCI Journal, May 2017

Remote Sensing Letters, SCI Journal, April 2017

IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, SCI Journal, April 2017

IEEE Geoscience and Remote Sensing Letters, SCI Journal, March 2017

Artificial Intelligence Communications, SCI Journal, January 2017

Information Sciences, SCI Journal, June 2016

International Journal of Remote Sensing, SCI Journal, May 2016

Pattern Recognition Letters, SCI Journal, April 2016

European Journal of Remote Sensing, SCI Journal, February 2016

IEEE Transactions on Biomedical Engineering, SCI Journal, February 2015

Digital Signal Processing, SCI Journal, August 2014

Remote Sensing of Enviroment, SCI Journal, September 2011

Journal of Pathology Informatics, SCI Journal, March 2011

Scientific Research / Working Group Memberships

Signal And Image Processing Laboratory (Simplab), Yildiz Technical University, Türkiye,
<http://www.simplab.yildiz.edu.tr/>, 2013 - Continues

Citations

Total Citations (WOS):380

h-index (WOS):10

Awards

BİLGİN G., SIMPLAB has received an NVIDIA Titan V GPU as an award of NVIDIA's Academic Programs Team., NVIDIA GPU Grant Award 2019, March 2019

BİLGİN G., (Best Paper Award) Comparative Analysis of Codeword Representation by Clustering Methods for the Classification of Histological Tissue Types, International Conference of Computer Vision (ICMV'2015), SCIEI Science and Engineering Institute, November 2015

BİLGİN G., MITOSIS-ATYPIA-14 Competition of Mitosis Detection yarışmasında 'Histopatolojik Görüntülerde Mitoz Belirleme' dalında elde edilen 3.lük derecesi. (<http://mitos-atypia-14.grand-challenge.org/>), ICPR 2014 Conference and IPAL Laboratory CNRS, University Joseph Fourier, Grenoble 1, Sorbonne Universités UPMC, A*STAR/I2R Singapore, August 2014