

Prof. Gökhan BİLGİN

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International Researcher IDs

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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 a 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 Technical University, Elektrik Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, Turkey 2003 - 2009

Postgraduate, Yıldız Technical University, Elektrik Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, Turkey 2000 - 2003

Undergraduate, Yıldız Technical University, 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 Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2023 - Continues
Associate Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2017 - 2023
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
Deputy Head of Department, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2021 - 2023

Advising Theses

Bilgin G., Histopatolojik Görüntülerin Derin Öğrenme Algoritmaları ile Bölütlenmesi, Doctorate, N.Hatipoğlu(Student), Continues
Bilgin G., Cancer Detection from High Resolutional Histopathological Images, Doctorate, Ö.Faruk(Student), Continues
Bilgin G., Histopatolojik Görüntülerde Topluluk Öğrenme Yöntemleri, Doctorate, K.Güzel(Student), Continues
Bilgin G., Graph Representation Learning for Histopathological Images, Postgraduate, E.TEPE(Student), 2022
Bilgin G., Emotion and gender identification on speech signals using deep learning methods, Postgraduate, Ö.ÖZDEMİR(Student), 2022
Bilgin G., Use of spatial information in classification and segmentation of synthetic aperture radar images, Doctorate, Ü.GÖKDAĞ(Student), 2022
Bilgin G., Hiperspektral görüntü analizinde ileri spektral ve uzamsal yöntemler, Doctorate, İ.ONUR(Student), 2022
Serbes A., Bilgin G., Design of speaker diarization with speaker embeddings, Postgraduate, M.MESUT(Student), 2020
Bilgin G., Uzamsal bilgi kullanarak histopatolojik görüntü analizi, Postgraduate, M.EMİN(Student), 2020
Balık Şanlı F., Bilgin G., The Usability of Polarimetric SAR Images for Crop Pattern Identification:Comparative Analysis, Doctorate, M.ÜSTÜNER(Student), 2020
Bilgin G., Histopatolojik Görüntülerde Çoklu Örnekli Öğrenme ile Hücre Bölütleme, Postgraduate, S.KAYA(Student), 2019
Bilgin G., Audio Fingerprinting Using Wavelet Transform, Postgraduate, E.KANALICI(Student), 2019
Bilgin G., Detection and Classification of Nuclei in Histopathological Images, Postgraduate, R.SAFI(Student), 2019
Bilgin G., Hiperspektral görüntülerde yarı güdümlü öğrenme teknikleri, Doctorate, M.SAİD(Student), 2019
Bilgin G., Classification of hyperspectral images with ensemble learning methods, Doctorate, U.ERGÜL(Student), 2019
Bilgin G., Histopatolojik Görüntülerin Makine Öğrenmesi Yöntemleri ile Analizi, Doctorate, A.Albayrak(Student), 2018
Bilgin G., Biyomedikal İşaret ve Görüntülerde Görgül Kip Ayrışımı, Postgraduate, Ö.Faruk(Student), 2015
Bilgin G., Histopatolojik Görüntülerde Mitoz Belirleme, Postgraduate, A.Albayrak(Student), 2013
Bilgin G., Hiperspektral Görüntülerde Spektral Ve Uzamsal Enformasyonun Ortaklaşa Kullanımı İle Sınıflandırılması Ve

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Classification of Cervical Precursor Lesions via Local Histogram and Cell Morphometric Features**
Calik N., Albayrak A., Akhan A., Turkmen I., Çapar A., Töreyn B. U., BİLGİN G., Muezzinoglu B., Durak Ata L.
IEEE Journal of Biomedical and Health Informatics, vol.27, no.4, pp.1747-1757, 2023 (SCI-Expanded)
- II. **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.81, no.10, pp.13179-13202, 2022 (SCI-Expanded)
- III. **A modified SLIC-based superpixel segmentation for hyperspectral images**
Sigirci I. O., Bilgin G.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.38, no.1, pp.399-407, 2022 (SCI-Expanded)
- IV. **Spectral-Spatial Classification of Hyperspectral Images Using BERT-Based Methods With HyperSLIC Segment Embeddings**
Sigirci I. O., Bilgin G.
IEEE ACCESS, vol.10, pp.79152-79164, 2022 (SCI-Expanded)
- V. **SAR image classification post-processing with multiscale complementary Gaussian kernel weighting**
Gokdag U., BİLGİN G.
SIGNAL IMAGE AND VIDEO PROCESSING, vol.15, no.7, pp.1425-1433, 2021 (SCI-Expanded)
- VI. **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, no.7-8, pp.1545-1561, 2021 (SCI-Expanded)
- VII. **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 (SCI-Expanded)
- VIII. **MCK-ELM: multiple composite kernel extreme learning machine for hyperspectral images**
Ergul U., Bilgin G.
NEURAL COMPUTING & APPLICATIONS, vol.32, pp.6809-6819, 2020 (SCI-Expanded)
- IX. **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 (SCI-Expanded)
- X. **HCKBoost: Hybridized composite kernel boosting with extreme learning machines for hyperspectral image classification**
Ergul U., Bilgin G.
NEUROCOMPUTING, vol.334, pp.100-113, 2019 (SCI-Expanded)
- XI. **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 (SCI-Expanded)
- XII. **Multiple-instance ensemble learning for hyperspectral images**
Ergul U., Bilgin G.
JOURNAL OF APPLIED REMOTE SENSING, vol.11, 2017 (SCI-Expanded)
- XIII. **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 (SCI-Expanded)
- XIV. **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 (SCI-Expanded)
- XV. **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 (SCI-Expanded)
- XVI. **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 (SCI-Expanded)
- XVII. **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 (SCI-Expanded)
- XVIII. **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 (SCI-Expanded)
- XIX. **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 (SCI-Expanded)
- XX. **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 (SCI-Expanded)

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 (Peer-Reviewed 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 (Peer-Reviewed Journal)
- 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 (Peer-Reviewed Journal)
- 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 (Peer-Reviewed 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 (Peer-

Reviewed Journal)

- VI. **Sleep Apnea Detection Using Adaptive Neuro Fuzzy Inference System**
Avci C., Bilgin G.
Engineering, vol.5, pp.259-263, 2013 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Deep Transfer Learning Methods for Classification Colorectal Cancer Based on Histology Images**
Alhanaf A. S., Al-jumaili S., BİLGİN G., DURU A. D., Alyassri S., BALIK H. H.
2022 International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Turkey, 20 October 2022
- II. **Classification of Tissue Types in Histology Images Using Graph Convolutional Networks**
TEPE E., BİLGİN G.
IEEE 10th International Symposium on Digital Forensics and Security, ISDFS'22, İstanbul, Turkey, 06 June 2022, pp.1-3
- III. **Semantic Segmentation of Histopathological Images with Fully and Dilated Convolutional Networks**
TURHAN H., BİLGİN G.
2021 Medical Technologies Congress (TIPTEKNO'21), Antalya, Turkey, 4 - 06 November 2021, vol.1, pp.1-4
- IV. **Classification of Breast Cancer Images by Transfer Learning Approach Using Different Patching Sizes**
CELİK E., BİLGİN G.
2021 Medical Technologies Congress (TIPTEKNO'21), Antalya, Turkey, 4 - 06 November 2021, vol.1, pp.1-4
- V. **Segmentation of Nucleus in Histopathological Images Using Deep Learning Architectures**
AYAZ O., USTA H., BİLGİN G.
2021 Medical Technologies Congress (TIPTEKNO'21), Antalya, Turkey, 04 November 2021, vol.1, pp.1-4
- VI. **Histopathological Image Segmentation Using U-Net Based Models**
HATİPOĞLU N., BİLGİN G.
2021 Medical Technologies Congress (TIPTEKNO'21), Antalya, Turkey, 4 - 06 November 2021, vol.1, pp.1-4
- VII. **Classification of Histopathological Images by Spatial Feature Extraction and Morphological Methods**
TEZCAN C. E., KIRAS B., BİLGİN G.
2021 Medical Technologies Congress (TIPTEKNO'21), Antalya, Turkey, 04 November 2021, vol.1, pp.1-4
- VIII. **Auto-correlation for Predicting Neutral Emotion State on Speech Emotion Recognition**
ÖZDEMİR Ö., BİLGİN G.
IEEE Akıllı Sistemlerde Yenilikler ve Uygulamaları Konferansı (ASYU'21), Elazığ, Turkey, 6 - 08 October 2021, vol.1, pp.1-5
- IX. **Comparison of Data-Driven and Morphological Features for Cell Segmentation in Histopathological Images**
KARAASLAN Ö. F., BİLGİN G.
IEEE 29th Signal Processing and Communications Applications Conference (SIU'21), İstanbul, Turkey, 9 - 11 June 2021, vol.1, pp.1-4
- X. **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
- XI. **Speaker Diarization using Embedding Vectors**
Toruk M. M., Bilgin G., Serbes A.
2020 28th Signal Processing and Communications Applications Conference (SIU), Gaziantep, Turkey, 5 - 07 October 2020, pp.1-4
- XII. **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
- XIII. **Feature Extraction with Bidirectional Encoder Representations from Transformers in Hyperspectral Images**
SIĞIRCI İ. O., BİLGİN G., HAKAN Ö.
2020 28th Signal Processing and Communications Applications Conference (SIU), Gaziantep, Turkey, 5 - 07 October 2020, pp.1-4
- XIV. **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
- XV. **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
- XVI. **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
- XVII. **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
- XVIII. **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
- XIX. **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
- XX. **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
- XXI. **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
- XXII. **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
- XXIII. **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
- XXIV. **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
- XXV. **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
- XXVI. **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

- XXVII. **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
- XXVIII. **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
- XXIX. **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
- XXX. **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
- XXXI. **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
- XXXII. **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
- XXXIII. **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
- XXXIV. **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
- XXXV. **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
- XXXVI. **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 TıpTekno'18 - IEEE Medical Technologies Congress, Gazi Magosa, Cyprus (Kkct), 08 November 2018, pp.218-221
- XXXVII. **Histopatolojik Görüntülerde Kodlayıcı-Çözücü Tabanlı Derin Öğrenme Algoritması ile Hücresel Yapıların Bölütlenmesi**
ALBAYRAK A., BİLGİN G.
IEEE Tıp Teknolojileri Kongresi, TıpTekno'18, Gazi Magosa, Cyprus (Kkct), 8 - 10 November 2018, pp.218-221

- XXXVIII. **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
- XXXIX. **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
- XL. **Classification of tumor regions in histopathological images using convolutional neural networks**
GÜNDÜZ K., ALBAYRAK A., BİLGİN G., KARSLIĞİL YAVUZ M. E.
26th Signal Processing and Communications Applications Conference (SIU), Izmir, Turkey, Turkey, 2 - 05 May 2018, pp.1-4
- XLI. **Classification of hyperspectral images with multiple kernel extreme learning machine Hiperspektral Görüntülerin Çoklu Çekirdek aşiri Öğrenme Makinesi ile Siniflandırılması**
Ergul U., BİLGİN G.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- XLII. **Kernel extreme learning machines for PolSAR image classification using spatial features Uzamsal Öznitelikler Kullanılarak Çekirdek Tabanlı aşiri Öğrenme Makineleri ile PolSAR Görüntüsü Siniflandırılması**
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
- XLIII. **Textural feature extraction and ensemble of extreme learning machines for hyperspectral image classification Hiperspektral Görüntülerin Siniflanması 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
- XLIV. **Comparing the classification performances of supervised classifiers with balanced and imbalanced SAR data sets Eğitici Siniflandırma 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
- XLV. **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., KARSLIĞİL YAVUZ M. E.
IEEE 26th Conf. on Signal Processing and Communications Applications, İzmir, Turkey, 02 May 2018, pp.1-4
- XLVI. **Eğitici Siniflandırma Yöntemlerinin Dengeli ve Dengesiz SAR Veri Kümelerindeki Başarımlarının Karşılaştırılması; Comparing the Classification Performances of Supervised Classifiers with Balanced and Imbalanced SAR Data Sets**
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- XLVII. **Uzamsal Öznitelikler Kullanılarak Çekirdek Tabanlı Aşırı Öğrenme Makineleri ile PolSAR Görüntüsü Sınıflandırılması; Kernel Extreme Learning Machines for PolSAR Image Classification using Spatial Features**
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- LIII. Histopatolojik Görüntülerde Hücre Sınıflandırılması için İstatistiksel-Uzamsal Yaklaşım**
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- LV. Derin Öğrenme ve Sezgisel Optimizasyon ile Histopatolojik Görünülerde Çekirdek Merkezlerinin Bulunması; Nuclei Detection in Histopathological Images with Deep Learning and Heuristic Optimization 10.1109/**
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- BİLGİN G., Project Supported by Higher Education Institutions, Hiperspektral Görüntülerin Topluluk Öğrenme Yöntemleri ile Sınıflandırılması, 2016 - 2019
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- BİLGİN G., Project Supported by Other Official Institutions, İleri Görünteleme Teknolojileri (İGT) - TUYGUN Projesi-Hedef Tespiti Algoritma Geliştirilmesi, 2014 - 2015
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- BİLGİN G., Other International Funding Programs, 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
- IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, SCI Journal, April 2017
- Remote Sensing Letters, 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

Metrics

Publication: 149

Citation (WoS): 396

Citation (Scopus): 622

H-Index (WoS): 10

H-Index (Scopus): 12

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

Non Academic Experience

Milsoft A.Ş.

Indiana University-Purdue University Indianapolis

Beko Elektronik A.Ş.

Adam Elektronik ArGe Ltd. Şti.