

Prof. HASAN ŞAKİR BİLGE

Personal Information

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International Researcher IDs

ScholarID: [ujwM0w8AAAAJ](https://orcid.org/0000-0002-4945-0884)

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Publons / Web Of Science ResearcherID: AIC-0273-2022

ScopusID: 23134504900

Yoksis Researcher ID: 51837

Education Information

Doctorate, Baskent University, Institute Of Science, Elektrik-Elektronik Mühendisliği (Dr), Turkey 1998 - 2003

Postgraduate, Kirikkale University, Institute Of Science, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Turkey 1996 - 1997

Undergraduate, Yıldız Technical University, Faculty Of Electrical & Electronics, Bilgisayar Mühendisliği Bölümü, Turkey
1987 - 1992

Foreign Languages

German, B2 Upper Intermediate

English, C1 Advanced

Dissertations

Doctorate, Delta-sigma örneklemeli altdizilim işlemeye dayalı bir demetleme yöntemi, Baskent University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), 2003

Postgraduate, Yapay açıklığa dayalı ultrasonik görüntüleme için hareket tahmini, Kirikkale University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), 1997

Research Areas

Signal Processing for Sensor Sequences, Image and Video Processing, Pattern Recognition and Analysis, Computer Vision, Equipment, Logic Design, Pattern Recognition and Image Processing, Biomedical Image Processing

Academic Titles / Tasks

Professor, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2020 - Continues

Associate Professor, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2015 - 2020

Associate Professor, Gazi University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2012 - 2015
Assistant Professor, Gazi University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2003 - 2012
Lecturer, Baskent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 1999 - 2003
Research Assistant, Baskent University, Faculty Of Engineering, Department Of Computer Engineering, 1998 - 1999
Research Assistant, Kirikkale University, Faculty Of Engineering, Department Of Computer Engineering, 1995 - 1998

Academic and Administrative Experience

Manager of Research and Application Center, Gazi University, Rektörlük, Biyomedikal Kalibrasyon ve Araştırma Merkezi (BİYOKAM), 2022 - Continues
Academic Performance D. Board Member, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2022 - Continues
Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2021 - Continues
Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Gazi University, Araştırma ve Uygulama Merkezleri, Biyomedikal Kalibrasyon ve Araştırma Merkezi Müdürlüğü, 2020 - Continues
Rektörlük Akademik Teşvik Değerlendirme Komisyonu Üyesi, Gazi University, Rektörlük, Gazi Üniversitesi, 2020 - Continues
Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2020 - Continues
Adaptation/Exemption Committee Member, Gazi University, Bilişim Enstitüsü, -, 2022 - 2023
Head of Department, Gazi University, Bilişim Enstitüsü, Bilgisayar Eğitimi, 2021 - 2023
Enstitü Kurulu Üyesi, Gazi University, Bilişim Enstitüsü, -, 2020 - 2023
Head of Department, Gazi University, Bilişim Enstitüsü, Bilgisayar Bilimleri Anabilim Dalı (Disiplinlerarası), 2020 - 2023
Institute Board Member, Gazi University, Bilişim Enstitüsü, -, 2020 - 2023
Assistant Manager of Research and Application Center, Gazi University, Araştırma Ve Uygulama Merkezleri, Biyomedikal Kalibrasyon Ve Araştırma Merkezi Müdürlüğü, 2021 - 2022
Gazi University, Fen Bilimleri Enstitüsü, Bilgi Güvenliği Mühendisliği Anabilim Dalı (Disiplinlerarası), 2016 - 2017
Gazi University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2005 - 2015

Courses

Microprocessors, Undergraduate, 2020 - 2021, 2017 - 2018
Microprocessors Laboratory, Undergraduate, 2020 - 2021, 2017 - 2018
ALGORİTMA TASARIMI, Postgraduate, 2021 - 2022
ALGORİTMA TASARIMI, Postgraduate, 2021 - 2022, 2020 - 2021, 2017 - 2018
Computer Architecture, Undergraduate, 2021 - 2022, 2017 - 2018
EEE482 Data Structures, Undergraduate, 2017 - 2018
EEM304E MİKROİŞLEMCİLER, Undergraduate, 2017 - 2018, 2016 - 2017
5031329 İLERİ SAYISAL TASARIM, Postgraduate, 2017 - 2018, 2016 - 2017
5191329 ÖRÜNTÜ TANIMA, Doctorate, 2017 - 2018
EEE392 Project Management, Undergraduate, 2017 - 2018
5911306 FPGA PROGRAMLAMA, Postgraduate, 2017 - 2018, 2016 - 2017
EEM482E VERİ YAPILARI, Undergraduate, 2017 - 2018
BEBB5108 GÖRÜNTÜ ANALİZİ, Postgraduate, 2017 - 2018
EEM481E BİLGİSAYAR MİMARİSİ, Undergraduate, 2017 - 2018
BM209 SAYISAL TASARIM, Undergraduate, 2017 - 2018, 2016 - 2017
5131305 GÖRÜNTÜ İŞLEME, Postgraduate, 2017 - 2018
5131310 GÖRÜNTÜ İŞLEME (UZAKTAN EĞİTİM), Postgraduate, 2017 - 2018

EEM103E COMPUTER PROGRAMMING, Undergraduate, 2017 - 2018, 2016 - 2017
BM212 BİLGİSAYAR TASARIMI, Undergraduate, 2016 - 2017
5101305 BİLGİSAYARLA GÖRME, Postgraduate, 2016 - 2017
5261351 C OBJECT - ORIENTED PROGRAMMING, Postgraduate, 2016 - 2017
EEM104E MANTIKSAL DEVRE TASARIMI, Undergraduate, 2016 - 2017

Advising Theses

Bilge H. Ş., Registration of ultrasound images using hardware based accelerated convolutional neural network, Doctorate, S.GÜZEL(Student), 2023
Bilge H. Ş., Single and multi sensor fail detection and fixing via machine learning methods in avionics, Postgraduate, M.Safa(Student), 2023
Bilge H. Ş., EXAMINATION OF SUPER RESOLUTION METHODS ON ULTRASOUND IMAGES, Postgraduate, E.KÜPÇÜOĞLU(Student), 2022
Bilge H. Ş., Görüntü işleme ve bilgisayarlı görü teknolojileriyle eşgal tespit ve tanıma sistemi algoritmaları geliştirilmesi, Postgraduate, S.YEŞİLBAĞ(Student), 2022
Bilge H. Ş., FPGA Üzerinde Lazer Tespit Algoritması İmplementasyonu, Postgraduate, Y.EREN(Student), 2022
Bilge H. Ş., Görüntülerde FPGA Tabanlı Gürültü Giderimi, Postgraduate, S.ESER(Student), 2022
Bilge H. Ş., INDOOR LOCALIZATION AND MAPPING FOR UNMANNED AERIAL VEHICLES BY USING MONOCULAR CAMER, Doctorate, B.ŞİMŞEK(Student), 2022
Bilge H. Ş., DEPTH ESTIMATION WITH STEREO THERMAL AND CROSS MODALITY USING DEEP NEURAL NETWORKS, Postgraduate, A.Faruk(Student), 2021
Bilge H. Ş., MEASUREMENT OF IMAGE SHARPNESS IN THERMAL LENSES, Postgraduate, Z.DERTLİ(Student), 2021
Bilge H. Ş., Büyük veri eğitimi ihtiyacının farkındalığına yönelik Ankara ilinde bir araştırma, Doctorate, Z.AYTAÇ(Student), 2021
Bilge H. Ş., Aviyonikte kullanılan yüksek hızlı ağların karşılaştırılması, Postgraduate, O.RAŞİT(Student), 2021
BİLGE H. Ş., Fuzzy Based Cyber Security Risk Model For Smart Car, Doctorate, O.MURATOĞLU(Student), 2020
BİLGE H. Ş., Scalable Binary Image Generation And Single Image To Threedimensional Object Reconstruction Using Deep Generative Models, Doctorate, C.GÜZEL(Student), 2020
BİLGE H. Ş., Deep Learning Based Vehicle Detection And Classification On Air And Satelllte Images, Postgraduate, Ö.ER(Student), 2020
BİLGE H. Ş., ULTRASON GÖRÜNTÜLERİNDE DERİN ÖĞRENME YAKLAŞIMIYLA SÜPER ÇÖZÜNÜRLÜK, Doctorate, H.TEMİZ(Student), 2020
BİLGE H. Ş., Implementation Of Warped Vortex Algorithm On A Military Rescue Simulation, Postgraduate, S.BİLECEN(Student), 2019
BİLGE H. Ş., Fast Image Search On High Dimensional Image Database, Doctorate, O.DURMAZ(Student), 2019
BİLGE H. Ş., Classification Of Histopathological Images With Deep Metric Learning, Doctorate, M.KAYA(Student), 2019
BİLGE H. Ş., Sound Source Localization In The Fourier Region With Cross Correlation Method Using Fpga, Postgraduate, M.ÖZTÜRK(Student), 2019
BİLGE H. Ş., Road damage detection with deep learning methods, Postgraduate, H.BALCI(Student), 2019
BİLGE H. Ş., Automatic Classification Of Liver Veins In Ultrasound Images, Postgraduate, A.MENTEŞE(Student), 2018
BİLGE H. Ş., Content Based Image Retrieval With Sparse Representation, Doctorate, C.ÇELİK(Student), 2017
BİLGE H. Ş., Classification In Lorentzian Space, Doctorate, Y.KERIMBEKOV(Student), 2017
BİLGE H. Ş., Realtime Facial Expression And Emotion Recognition, Postgraduate, N.KARAASLAN(Student), 2017
BİLGE H. Ş., Heart Sound (Phonocardiogram) In Identity Verification, Postgraduate, F.TAFAKHERI(Student), 2017
BİLGE H. Ş., Fast Search System For Large Face Databases, Postgraduate, A.EDİP(Student), 2016
BİLGE H. Ş., Copy Move Digital Image Forgery Detection, Postgraduate, A.BOZ(Student), 2016
BİLGE H. Ş., Effective Analysis Of Security Systems Logs By Using Data Mining Methods, Postgraduate, I.ÇİNAR(Student), 2015
BİLGE H. Ş., Classification By Dimension Reduction Of Multidimensional Data Sets In Bioinformatics, Postgraduate,

H.ZEHRA(Student), 2015
BİLGE H. Ş., Face recognition system with class-wise two dimensional principal component analysis, Postgraduate, C.GÜZEL(Student), 2014
BİLGE H. Ş., Feature selection and classification on gene expression data, Postgraduate, M.KAYA(Student), 2014
BİLGE H. Ş., Coded excitation ultrasound imaging, Postgraduate, S.MAHMOOD(Student), 2014
BİLGE H. Ş., Ultrasonic imaging with code excitation method, Postgraduate, F.ÇERİK(Student), 2014
BİLGE H. Ş., Biometric systems in cyber security and face recognition, Postgraduate, S.FİLİZ(Student), 2013
BİLGE H. Ş., Region based partial face recognition, Postgraduate, V.YİĞİT(Student), 2013
BİLGE H. Ş., Classification of scientific manuscripts using text processing methods, Postgraduate, S.KALİYEVA(Student), 2013
BİLGE H. Ş., Data mining solutions for tele marketing as a direct marketing tool: An application on bank costumers, Postgraduate, M.BİLGEHAN(Student), 2013
BİLGE H. Ş., Implementation of image processing algorithms on FPGA, Postgraduate, M.FATİH(Student), 2012
BİLGE H. Ş., Kanserli hücrelerin mikroarray gen ifadelerinin incelenmesi ve veri madenciliği yöntemleri kullanarak sınıflandırılması, Postgraduate, M.AKIN(Student), 2012
BİLGE H. Ş., 3D face reconstruction from 2D images for face recognition, Postgraduate, V.SALMA(Student), 2012
BİLGE H. Ş., Face classification using quality weighted self organizing maps, Postgraduate, M.ÇEVİKER(Student), 2011
BİLGE H. Ş., Effects of dimensionality reduction and feature selection in text categorization, Postgraduate, O.DURMAZ(Student), 2011
BİLGE H. Ş., Fotometrik stereo tabanlı 3 boyutlu yüz tanıma, Postgraduate, E.TEMİZKAN(Student), 2011
BİLGE H. Ş., Mikrofon dizileri ile telekonferans sistemlerinin iyileştirilmesi, Postgraduate, E.SULTAN(Student), 2010
BİLGE H. Ş., 3 boyutlu ayrik kosinüs dönüşümü tabanlı yüz bulma ve tanıma, Doctorate, G.GÜNLÜ(Student), 2010
BİLGE H. Ş., 3 BOYUTLU AYRIK KOSİNÜS DÖNÜŞÜMÜ TABANLI YÜZ BULMA VE TANIMA, Doctorate, G.GÜNLÜ(Student), 2010
BİLGE H. Ş., Comparison of speckle reduction techniques in ultrasound images, Postgraduate, A.ŞİMŞEK(Student), 2010
BİLGE H. Ş., Yüz tanımada aydınlanmanın etkisinin uyarlanırlı histogram eşitleme ile azaltılması, Postgraduate, E.KHURSHED(Student), 2009
BİLGE H. Ş., YÜZ TANIMADA AYDINLANMANIN ETKİSİNİN UYARLANIR HİSTOGRAM EĞİTİLEME İLE AZALTIKMASI, Postgraduate, E.S.KHURSHED(Student), 2009
BİLGE H. Ş., 3D SHAPE RECONSTRUCTION USING 2D IMAGES, Postgraduate, M.KARAMAN(Student), 2009
BİLGE H. Ş., IMAGE REGISTRATION, Postgraduate, Ö.ÇEVİK(Student), 2008
BİLGE H. Ş., PROCESSING OF REDUNDANCY IN IMAGE SEQUENCES, Postgraduate, M.ATALAR(Student), 2008
BİLGE H. Ş., MODELING HIERARCHICAL DATA FOR XML DATABASE AND FINDING THEIR SIMILARITY, Postgraduate, Ö.YÜREKTEN(Student), 2007
BİLGE H. Ş., Hiyerarşik verilerin XML veritabanı olarak modellenmesi ve aralarındaki benzerliğin bulunması, Postgraduate, Ö.YÜREKTEN(Student), 2007
BİLGE H. Ş., DOCUMENT CLASSIFICATION WITH SELF-ORGANIZING MAPS, Postgraduate, Y.ALPDOĞAN(Student), 2007
BİLGE H. Ş., SOUND SOURCE LOCALIZATION IN MICROPHONE ARRAYS USING GENETIC ALGORITHM, Postgraduate, E.ÇONTAR(Student), 2007
BİLGE H. Ş., COMPARISON OF METHODS THAT CAN BE USED FOR INDEXING AND DEVELOPMENT OF A SEARCH SYSTEM, Postgraduate, H.ONUR(Student), 2007
BİLGE H. Ş., Görüntü işleme yöntemleri ile doku sınırlarının belirlenmesi, Postgraduate, V.VERİM(Student), 2005

Jury Memberships

Competition, Efficiency Challenge Elektrikli Araç Yarışları, TÜBİTAK, September, 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Advancing Sustainable Marine Exploration: Highly Efficient Photonic Radar for Underwater Navigation Systems under the Impact of Different Salinity Levels**
Aldawoodi A, BİLGE H. Ş.
Sustainability (Switzerland), vol.16, no.7, 2024 (SCI-Expanded)
- II. **Speckle noise reduction on aligned consecutive ultrasound frames via deep neural network**
Mikaeili M, Bilge H. Ş., Kılıçaslan İ.
MEASUREMENT SCIENCE AND TECHNOLOGY, vol.35, no.6, pp.65403, 2024 (SCI-Expanded)
- III. **FPGA Implementation of Image Registration Using Accelerated CNN**
Aydin S. G., BİLGE H. Ş.
Sensors, vol.23, no.14, 2023 (SCI-Expanded)
- IV. **Trajectory estimation of ultrasound images based on convolutional neural network**
Mikaeili M., Bilge H. Ş.
Biomedical Signal Processing and Control, vol.78, 2022 (SCI-Expanded)
- V. **Removal of speckle noises from ultrasound images using five different deep learning networks**
Karaoğlu O., Bilge H. Ş., Uluer İ.
Engineering Science and Technology, an International Journal, vol.29, 2022 (SCI-Expanded)
- VI. **A novel motion blur resistant vslam framework for micro/nano-uavs**
Şimşek B., Bilge H. Ş.
Drones, vol.5, no.4, 2021 (SCI-Expanded)
- VII. **Class-aware single image to 3D object translational autoencoder**
GÜZEL TURHAN C., BİLGE H. Ş.
IET IMAGE PROCESSING, vol.14, no.13, pp.3046-3053, 2020 (SCI-Expanded)
- VIII. **Fused voxel autoencoder for single image to 3D object reconstruction**
Turhan C., Bilge H. Ş.
ELECTRONICS LETTERS, vol.56, no.3, pp.134-136, 2020 (SCI-Expanded)
- IX. **Scalable image generation and super resolution using generative adversarial networks**
GÜZEL TURHAN C., BİLGE H. Ş.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.2, pp.953-966, 2020 (SCI-Expanded)
- X. **Super Resolution of B-Mode Ultrasound Images With Deep Learning**
Temiz H., BİLGE H. Ş.
IEEE ACCESS, vol.8, pp.78808-78820, 2020 (SCI-Expanded)
- XI. **Fast image similarity search by distributed locality sensitive hashing**
Durmaz O., BİLGE H. Ş.
PATTERN RECOGNITION LETTERS, vol.128, pp.361-369, 2019 (SCI-Expanded)
- XII. **Deep Metric Learning: A Survey**
Kaya M., Bilge H. Ş.
SYMMETRY-BASEL, vol.11, no.9, 2019 (SCI-Expanded)
- XIII. **Content based image retrieval with sparse representations and local feature descriptors: A comparative study**
Celik C., BİLGE H. Ş.
PATTERN RECOGNITION, vol.68, pp.1-13, 2017 (SCI-Expanded)
- XIV. **Class-wise two-dimensional PCA method for face recognition**
GÜZEL TURHAN C., BİLGE H. Ş.
IET COMPUTER VISION, vol.11, no.4, pp.286-300, 2017 (SCI-Expanded)
- XV. **The use of Lorentzian distance metric in classification problems**
Kerimbekov Y., BİLGE H. Ş., UĞURLU H. H.
PATTERN RECOGNITION LETTERS, vol.84, pp.170-176, 2016 (SCI-Expanded)
- XVI. **FEATURE SELECTION WITH WEIGHTED CONDITIONAL MUTUAL INFORMATION**
Celik C., BİLGE H. Ş.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.30, no.4, pp.585-596,

- 2015 (SCI-Expanded)
- XVII. **GENE SELECTION FOR BREAST CANCER CLASSIFICATION BASED ON DATA FUSION AND GENETIC ALGORITHM**
YILDIZ O., Tez M., BİLGE H. Ş., AKCAYOL M. A., GÜLER İ.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, no.3, pp.659-668, 2012 (SCI-Expanded)
- XVIII. **KUZEM LMS: A new learning management system for online education**
ERGÜZEN A., Erel S., UZUN İ., BİLGE H. Ş., ÜNVER H. M.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART B-SOCIAL AND EDUCATIONAL STUDIES, vol.4, no.3, pp.1865-1878, 2012 (SCI-Expanded)
- XIX. **Delta-sigma subarray beamforming for ultrasound imaging**
Bilge H. Ş.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.18, no.6, pp.1003-1018, 2010 (SCI-Expanded)
- XX. **Face Recognition with Discriminating 3D DCT Coefficients**
Gunlu G., BİLGE H. Ş.
COMPUTER JOURNAL, vol.53, no.8, pp.1324-1337, 2010 (SCI-Expanded)
- XXI. **MODELING A HIERARCHICAL DATABASE WITH XML**
Yurekten O., BİLGE H. Ş.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.24, no.4, pp.629-639, 2009 (SCI-Expanded)
- XXII. **CLASSIFICATION OF COURSE CONTENTS BY USING SELF-ORGANIZING MAPS**
Alpdogan Y., BİLGE H. Ş.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.24, no.2, pp.303-310, 2009 (SCI-Expanded)
- XXIII. **A ROBUST MOTION ESTIMATION BY USING PSEUDO PHASE**
Atalar M., BİLGE H. Ş.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.24, no.1, pp.171-181, 2009 (SCI-Expanded)
- XXIV. **Adaptive multi-element synthetic aperture imaging with motion and phase aberration correction**
Karaman M., Bilge H. Ş., O'Donnell M.
IEEE TRANSACTIONS ON ULTRASONICS FERROELECTRICS AND FREQUENCY CONTROL, vol.45, no.4, pp.1077-1087, 1998 (SCI-Expanded)

Articles Published in Other Journals

- I. **Classification of histopathological images using similarity-based learning**
Kaya M., BİLGE H. Ş.
EMO Bilimsel Dergi, vol.14, no.2, pp.49-58, 2024 (Peer-Reviewed Journal)
- II. **Analysis of the Applicability of Visual Simultaneous Localization and Mapping Technique for Unmanned Systems Using Simulink Environment**
ALTINDAŞ C. Ç., BİLGE H. Ş.
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, vol.35, no.1, pp.109-118, 2023 (Peer-Reviewed Journal)
- III. **Efficient Hardware Optimization for CNN**
Güzel Aydın S., Bilge H. Ş.
International Journal of Multidisciplinary Studies and Innovative Technologies, vol.6, pp.38-44, 2022 (Peer-Reviewed Journal)
- IV. **Depth Estimation in DNN Using Stereo Thermal Image Pairs**
Akyüz A. F., Bilge H. Ş.
International Journal of Computer and Information Engineering, vol.16, no.2, pp.31-36, 2022 (Peer-Reviewed)

Journal)

- V. **Evaluation of Big Data Awareness and Educational Expectations of Faculty Members**
Aytaç Z., Bilge H. Ş.
işletme, vol.2, no.2, pp.29-46, 2021 (Peer-Reviewed Journal)
- VI. **Vehicle Detection From Aerial Imagery As A Small Object Detection Difficulty**
Er Ö., Bilge H. Ş.
Veri Bilimi, vol.4, no.1, pp.73-83, 2021 (Peer-Reviewed Journal)
- VII. **Big data analytics in higher education: a systematic review**
Aytaç Z., Bilge H. Ş.
Journal of Internet Applications and Management, vol.11, no.2, pp.81-99, 2020 (Peer-Reviewed Journal)
- VIII. **A QUALITATIVE RESEARCH ON EVALUATING PUBLIC AND PRIVATE INSTITUTIONS' EXISTING STATUS AND EXPECTATIONS ON BIG DATA AREA IN TURKEY**
Aytaç Z., Bilge H. Ş.
Business and Management Studies: An International Journal, vol.8, no.5, pp.4646-4679, 2020 (Peer-Reviewed Journal)
- IX. **A Review on Cyber Risk Management**
Okul Ş., Muratoğlu O., AYDIN M. A., BİLGE H. Ş.
Acta INFOLOGICA, vol.3, no.1, pp.34-45, 2019 (Peer-Reviewed Journal)
- X. **SECURITY ATTACKS IN V2V COMMUNICATION**
OKUL Ş., MURATOĞLU O., AYDIN M. A., BİLGE H. Ş.
National Security and Military Sciences, vol.4, no.4, pp.58-63, 2018 (Peer-Reviewed Journal)
- XI. **Multi Featured Content Based Image Retrieval Using Color and Texture Features**
Ayan M., ERDEM O. A., BİLGE H. Ş.
Applied Mechanics and Materials, vol.850, pp.136-143, 2016 (Peer-Reviewed Journal)
- XII. **Statistical Analysis and Intrusion Detection of Web Logs by Using Web Mining Methods**
Çinar I., BİLGE H. Ş.
INTERNATIONAL JOURNAL OF INFORMATICS TECHNOLOGIES, vol.9, no.2, pp.125-135, 2016 (Peer-Reviewed Journal)
- XIII. **Yumurtalık Kanseri Teşhisine Yönelik Gen İfadelerinin Veri Madenciliği ile Analizi**
DEMİRCİOĞLU H. Z., BİLGE H. Ş.
Marmara Fen Bilimleri Dergisi, vol.27, no.4, 2015 (Peer-Reviewed Journal)
- XIV. **Analysis for feature extraction on block based spatial domain**
GÜZEL TURHAN C., BİLGE H. Ş.
Global Journal on Technology, no.7, pp.65-70, 2015 (Peer-Reviewed Journal)
- XV. **Breast Cancer Diagnosis Based On Naive Bayes Machine Learning Classifier With Knn Missing Value Imputation**
GÜZEL TURHAN C., KAYA M., YILDIZ O., BİLGE H. Ş.
Global Journal on Technology, vol.4, no.2, pp.401-407, 2013 (Peer-Reviewed Journal)
- XVI. **Tele Pazarlama Verilerinin Birlikte Kurallarıyla Ve Crisp Dm Yöntemiyle Analiz Edilmesi**
AYTAÇ M. B., BİLGE H. Ş.
Aksaray Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.5, no.2, pp.25-39, 2013 (Peer-Reviewed Journal)
- XVII. **Breast Cancer Diagnosis Based on Naive Bayes Machine Learning Classifier with KNN Missing Data Imputation**
GÜZEL TURHAN C., KAYA M., YILDIZ O., BİLGE H. Ş.
Global Journal on Technology, vol.4, no.2, pp.401-407, 2013 (Peer-Reviewed Journal)
- XVIII. **Shape and Texture based Face Recognition on Overlapping 3D Sub regions**
GÜNLÜ G., BİLGE H. Ş.
COMPUTATIONAL PROBLEMS IN ENGINEERING, vol.62, pp.293-298, 2010 (Scopus)
- XIX. **Sound Source Localization in Microphone Arrays Using Genetic Algorithm**
Çontar E., BİLGE H. Ş.

Bilişim Teknolojileri Dergisi, vol.1, no.1, pp.23-33, 2008 (Peer-Reviewed Journal)

XX. Prostate Contour Extraction from Ultrasound Images

BİLGE H. Ş., Verim V.

Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.22, no.3, pp.407-413, 2007 (Scopus)

Books & Book Chapters

I. Shape and Texture based Face Recognition on Overlapping 3D Sub-regions

GÜNLÜ G., BİLGE H. Ş.

in: Computer and Information Sciences (Part of the Lecture Notes in Electrical Engineering book series volume 62), Gelenbe E., Lent R., Sakellari G., Sacan A., Toroslu H., Yazici A., Editor, Springer, Dordrecht, pp.293-298, 2011

Refereed Congress / Symposium Publications in Proceedings

I. Evaluating Deep Neural Network Models on Ultrasound Single Image Super Resolution

Mikaeili M., BİLGE H. Ş.

2023 Medical Technologies Congress, TIPTEKNO 2023, Famagusta, Cyprus (Gkry), 10 - 12 November 2023

II. Optimal hardware implementation for end-To-end CNN-based classification

Aydin S. G., BİLGE H. Ş.

4th International Conference on Innovative Trends in Information Technology, ICITIIT 2023, Virtual, Online, India, 11 - 12 February 2023

III. Low Power Quantized YOLO for Face Detection on FPGA

Günay B., Okçu S. B., Bilge H. Ş.

International Graduate Research Symposium - IGRS'2022, İstanbul, Turkey, 1 - 03 June 2022, pp.358

IV. LPYOLO: Low Precision YOLO for Face Detection on FPGA

Gunay B., Okcu S. B., Bilge H. Ş.

8th World Congress on Electrical Engineering and Computer Systems and Science, EECSS 2022, Prague, Czech Republic, 28 - 30 July 2022

V. Supervised rigid image registration with CNN for MR brain images

Aydin S. G., Bilge H. Ş., Hardalac F.

2022 Innovations in Intelligent Systems and Applications Conference, ASYU 2022, Antalya, Turkey, 7 - 09 September 2022

VI. AG-Mono: A Monocular Dataset for Unmanned Air Vehicles AG-Mono: İnsansız Hava Araçları için Monoküler Görüntü Veri Kümesi

Simsek B., Giden I. H., Bilge H. Ş.

30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022

VII. Evaluating Kalman Filter Effects for Ultrasound Images Position Estimation

Mikaeili M., BİLGE H. Ş.

Medical Technologies Congress (TIPTEKNO), Antalya, Turkey, 31 October - 02 November 2022

VIII. Implementation of Single Image Super-Resolution Methods on Ultrasound Images Tek Görüntü Süper Çözünürlük Yöntemlerinin Ultrason Görüntülerinde Uygulanması

Yasin E. K., Bilge H. Ş.

30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022

IX. Comparative analysis of next generation aircraft data networks

Kultur O. R., BİLGE H. Ş.

19th IEEE International Conference on Smart Technologies, EUROCON 2021, Lviv, Ukraine, 6 - 08 July 2021, pp.317-320

- X. **Performance Comparison of Direct and Feature Based vSLAM Algorithms**
Simsek B., Satir S., Bilge H. Ş.
29th IEEE Conference on Signal Processing and Communications Applications (SIU), ELECTR NETWORK, 9 - 11 June 2021
- XI. **FPGA -Based Implementation of Convolutional Layer Accelerator Part for CNN**
Guzel Aydin S., Bilge H. Ş.
2021 Innovations in Intelligent Systems and Applications Conference, ASYU 2021, Elazığ, Turkey, 6 - 08 October 2021
- XII. **Modeling Brushless Direct Current Motor Of A Guided System**
Kiyli S., Bilge H. Ş.
29th IEEE Conference on Signal Processing and Communications Applications (SIU), ELECTR NETWORK, 9 - 11 June 2021
- XIII. **Vehicle Detection OnAerial Imagery As Small Object Detection Difficulty**
Er Ö., BİLGE H. Ş.
3rd International Conference on Data Science and Applications (ICONDATA'20), İstanbul, Turkey, 25 - 28 June 2020, pp.35
- XIV. **Estimating Rotation Angle and Transformation Matrix Between Consecutive Ultrasound Images Using Deep Learning**
Mikaeili M., Bilge H. Ş.
2020 Medical Technologies Congress (TIPTEKNO), ELECTR NETWORK, 19 - 20 November 2020
- XV. **Reducing Speckle Noise from Ultrasound Images Using an Autoencoder Network**
Karaoğlu O., Bilge H. Ş., Uluer İ.
28th Signal Processing and Communications Applications Conference (SIU), ELECTR NETWORK, 5 - 07 October 2020
- XVI. **FPGA based implementation of sigmoid function using different approaches**
Guzel Aydin S., Bilge H. Ş.
28th Signal Processing and Communications Applications Conference (SIU), ELECTR NETWORK, 5 - 07 October 2020
- XVII. **Ultrason Görüntü Gürültülerinin Azaltılmasında Derin Öğrenme İyileştirici Algoritma Performanslarının Karşılaştırılması**
Karaoğlu O., BİLGE H. Ş., ULUER İ.
Elektrik Elektronik Mühendisliği Kongresi (EEMKON 2019), İstanbul, Turkey, 14 - 16 November 2019, pp.34-39
- XVIII. **Road Damage Detection And Classification Using Deep NeuralNetworks**
Balcı H., BİLGE H. Ş.
4th International Mediterranean Science and Engineering Congress (IMSEC 2019), Antalya, Turkey, 25 - 27 April 2019, pp.596
- XIX. **Colaboratory: Makine Öğrenmesi ve Derin Öğrenme Çalışmalarında Donanım Gereksinimini Karşılama Alternatif Bir Çözüm**
TEMİZ H., BİLGE H. Ş., UYĞUR S.
3rd International Symposium on Innovative Approaches in Scientific Studies (Engineering and Natural Sciences) - ISAS2019, Ankara, Turkey, 19 - 21 April 2019, vol.4, pp.568-571
- XX. **FPGA Tabanlı Ses Kaynaklarının Konum Tespiti**
Öztürk Lafcı M., Lafcı M., BİLGE H. Ş.
6. Uluslararası Multidisipliner Çalışmaları Kongresi (Multicongress Gaziantep), Gaziantep, Turkey, 26 - 27 April 2019
- XXI. **Üretici Ağlar ile Tek Görüntüden Nesne Oluşturma**
GÜZEL TURHAN C., BİLGE H. Ş.
27th IEEE Signal Processing and Communications Applications Conference, SIU 2019, Sivas, Turkey, 24 - 26 April 2019
- XXII. **Ön Tanımlı Rastgele Özet Fonksiyonları ile Görüntü Arama**
Durmaz O., BİLGE H. Ş.

27. IEEE Sinyal İşleme ve İletişim Uygulamaları (SİU) Kurultayı, Sivas, Turkey, 24 - 26 April 2019
- XXIII. **A REVIEW ON CYBER RISK MANAGEMENT**
OKUL Ş., MURATOĞLU O., AYDIN M. A., BİLGE H. Ş.
1st International Symposium on Graduate Research in Science Focus on Entrepreneurship and Innovation (ISGRS 2018), İstanbul, Turkey, 4 - 06 October 2018
- XXIV. **Comparison of Cyber Risks with Respect to Operational Risk in Terms of Assessment Methods**
MURATOĞLU O., OKUL Ş., BİLGE H. Ş., AYDIN M. A.
1st International Symposium on Graduate Research in Science Focus on Entrepreneurship and Innovation (ISGRS 2018), İstanbul, Turkey, 4 - 06 October 2018
- XXV. **Variational Autoencoded Compositional Pattern Generative Adversarial Network for Handwritten Super Resolution Image Generation**
GÜZEL TURHAN C., BİLGE H. Ş.
3rd International Conference on Computer Science and Engineering (UBMK), Sarajevo, Bosnia And Herzegovina, 20 - 23 September 2018, pp.564-568
- XXVI. **Single Image Super Resolution using Deep Convolutional Generative Neural Networks**
GÜZEL TURHAN C., BİLGE H. Ş.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XXVII. **Fast Image Search with Distrubuted Hashing**
Durmaz O., BİLGE H. Ş.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XXVIII. **A Comparative Study on Super Resolution with Deep Learning**
Temiz H., TÜFEKÇİ A., BİLGE H. Ş.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XXIX. **Review On Cyber Risks Relating to Security Management in Smart Cars**
Muratoglu O., Okul S., AYDIN M. A., BİLGE H. Ş.
3rd International Conference on Computer Science and Engineering (UBMK), Sarajevo, Bosnia And Herzegovina, 20 - 23 September 2018, pp.406-409
- XXX. **Recent Trends in Deep Generative Models: a Review**
GÜZEL TURHAN C., BİLGE H. Ş.
3rd International Conference on Computer Science and Engineering (UBMK), Sarajevo, Bosnia And Herzegovina, 20 - 23 September 2018, pp.574-579
- XXXI. **FACE AND EYE DETECTION USING RASPBERRY PI AND PYTHON PROGRAM**
GÜZEL AYDIN S., MIKAEILI M., BİLGE H. Ş.
International Conference on Engineering Technologies (ICENTE'17), 7 - 09 December 2017
- XXXII. **FPGA-Based Electrocardiography (ECG) SignalAnalyzing Application: A brief review**
GÜZEL AYDIN S., BİLGE H. Ş.
International Conference on Multidisciplinary, Science, Engineering andTechnology (IMESET'17), 27 - 29 October 2017
- XXXIII. **EEG Uygulamalarında Veri Madenciliği: Örnek BirÇalışma**
GÜZEL AYDIN S., BİLGE H. Ş.
International Conference on Multidisciplinary, Science, Engineering andTechnology (IMESET'17), 27 - 29 October 2017
- XXXIV. **LabVIEW Based Fuzzy Identifier for Power QualityDisturbances**
GÜZEL AYDIN S., BİLGE H. Ş.
The 5th International Fuzzy Systems Symposium (FUZZYSS'17), 14 - 15 October 2017
- XXXV. **A Review of EEG Signal Processing Using Fuzzy Systems**
GÜZEL AYDIN S., BİLGE H. Ş.
The 5th International Fuzzy Systems Symposium (FUZZYSS'17), 14 - 15 October 2017
- XXXVI. **Improved Feature Selection in Lorentzian Space**
Kerimbekov Y., BİLGE H. Ş.
9th International Conference on Machine Learning and Computing (ICMLC 2017), Singapore, Singapore, 24 - 26

- February 2017, pp.1-6
- XXXVII. **Fast Image Searching in Large Scale Image Database**
Durmaz O., BİLGE H. Ş.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XXXVIII. **Classification of Parkinson Speech Data by Metric Learning**
Kaya M., BİLGE H. Ş.
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17 September 2017
- XXXIX. **Lorentzian Distance Classifier for Multiple Features**
Kerimbekov Y., BİLGE H. Ş.
6th International Conference on Pattern Recognition Applications and Methods (ICPRAM), Porto, Portugal, 24 - 26 February 2017, pp.493-501
- XL. **Registration Methods of Intraoperative Ultrasound and MR Images: A Review**
Mikaeili M., BİLGE H. Ş.
Medical Technologies National Congress (TIPTEKNO), Trabzon, Turkey, 12 - 14 October 2017
- XLI. **Automatic Classification of Liver Veins in Ultrasound Images**
Mentese A., BİLGE H. Ş.
Medical Technologies National Congress (TIPTEKNO), Trabzon, Turkey, 12 - 14 October 2017
- XLII. **Fast Image Segmentation for Local Feature Descriptors**
Celik C., BİLGE H. Ş.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XLIII. **Face Recognition via Lorentzian Metric**
Kerimbekov Y., BİLGE H. Ş.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XLIV. **Generating word images using Deep Generative Adversarial Networks**
GÜZEL TURHAN C., BİLGE H. Ş.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XLV. **Airport Detection by Combining Geometric and Texture Features on RASAT Satellite Images**
Temizkan E., BİLGE H. Ş.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XLVI. **Classification with SVM in Lorentzian space**
Kerimbekov Y., Bilge H. Ş., UĞURLU H. H.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XLVII. **A Hybrid Feature Selection Approach Based on Statistical and Wrapper Methods**
Kaya M., Bilge B. S.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.2101-2104
- XLVIII. **A feature selection method based on Lorentzian metric**
Kerimbekov Y., BİLGE H. Ş.
4th IEEE International Conference on Big Data (Big Data), Washington, Kiribati, 5 - 08 December 2016, pp.1760-1767
- XLIX. **Copy-Move Image Forgery Detection Based on LBP and DCT**
Boz A., BİLGE H. Ş.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.561-564
- L. **A new Classification Method by using Lorentzian Distance Metric**
BİLGE H. Ş., Kerimbekov Y., UĞURLU H. H.
International Symposium on Innovations in Intelligent SysTems and Applications (INISTA 2015), Madrid, Spain, 2 - 04 September 2015, pp.296-301
- LI. **Classification with Lorentzian Distance Metric**
BİLGE H. Ş., Kerimbekov Y.

- 23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2106-2109
- LII. **Comparison of Despeckle Filters for Endometrial Ultrasound Images**
Temizkan E., BİLGE H. Ş., Temizkan R. O.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1489-1492
- LIII. **Dimensionality reduction with PCA in block based DCT domain**
GÜZEL TURHAN C., YILDIRIM OKAY F., YILDIZ O., BİLGE H. Ş.
International Conference on Advanced Technology & Sciences (ICAT'14), Antalya, Turkey, 12 - 15 August 2014, pp.216-220
- LIV. **Etkileşimli Televizyon: IPTV.**
Çınar I., Çınar M. S., BİLGE H. Ş.
Akademik Bilişim Konferansı, Mersin, Turkey, 5 - 07 February 2014, pp.331-340
- LV. **Classification of Pancreas Tumor Dataset Using Adaptive Weighted k Nearest Neighbor Algorithm**
Kaya M., BİLGE H. Ş.
IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA), Alberobello, Italy, 23 - 25 June 2014, pp.253-257
- LVI. **kNN algorithm based on axis characteristic on Lorentzian space**
GÜZEL TURHAN C., BİLGE H. Ş.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.2130-2133
- LVII. **Breast Cancer Diagnosis Based on Naïve Bayes Machine Learning Classifier with KNN Missing Data Imputation**
GÜZEL TURHAN C., KAYA M., YILDIZ O., BİLGE H. Ş.
3rd World Conference on Innovation and Computer Science (INSODE-2013), 26 - 28 April 2013
- LVIII. **Face Recognition on Lorentzian Manifold**
BİLGE H. Ş., GÜZEL TURHAN C.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- LIX. **Feature Selection and Dimensionality Reduction on Gene Expressions**
Kaya M., BİLGE H. Ş., YILDIZ O.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- LX. **DIMENSIONALITY REDUCTION BASED ON LORENTZIAN MANIFOLD FOR FACE RECOGNITION**
BİLGE H. Ş., Kerimbekov Y., UĞURLU H. H.
10th International Conference on Electronics, Computer and Computation (ICECCO), Ankara, Turkey, 7 - 09 November 2013, pp.212-215
- LXI. **Gene selection for breast cancer Meme kanseri siniflandirmasi için gen seçimi**
YILDIZ O., Tez M., BİLGE H. Ş., AKCAYOL M. A., GÜLER N. F.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Turkey, 18 - 20 April 2012
- LXII. **Effects of dimensionality reduction and feature selection in text classification**
Durmaz O., BİLGE H. Ş.
2011 IEEE 19th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 20 - 22 April 2011, pp.21-24
- LXIII. **Comparison of speckle reduction techniques in ultrasound images**
ŞİMŞEK A., BİLGE H. Ş.
2011 IEEE 19th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 20 - 22 April 2011, pp.375-378
- LXIV. **Shape index based 3D face recognition using photometric stereo**
Temizkan E., BİLGE H. Ş.
2011 IEEE 19th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 20 - 22 April 2011

- LXV. **3D Face Decomposition and Region Selection Against Expression Variations**
GÜNLÜ G., BİLGE H. Ş.
2010 20th International Conference on Pattern Recognition, İstanbul, Turkey, 23 - 26 August 2010, pp.1298-1301
- LXVI. **Metin Sınıflandırma için AKD ile Boyut Azaltma**
Durmaz O., BİLGE H. Ş.
Akıllı Sistemlerde Yenilikler ve Uygulamaları Sempozyumu, Kayseri, Turkey, 21 - 24 June 2010, pp.1-5
- LXVII. **Finding leukocyte region in microscopic images**
Özçelik M. F., BİLGE H. Ş.
2010 15th National Biomedical Engineering Meeting, Antalya, Turkey, 21 - 24 April 2010
- LXVIII. **The determination of white blood cell borders with using of logical and morphological operations in microscopic blood images**
Özçelik M. F., BİLGE H. Ş.
2010 IEEE 18th Signal Processing and Communications Applications Conference, Diyarbakır, Turkey, 22 - 24 April 2010, pp.688-691
- LXIX. **3G Teknolojisi Perspektifinden Taşınabilir Ultrason Görüntüleme**
ŞİMŞEK A., Oktay G., BİLGE H. Ş.
Akademik Bilişim 2010, Muğla, Turkey, 10 - 12 February 2010, pp.649-654
- LXX. **Symmetry Analysis for 2D Images by Using DCT Coefficients**
Gunlu G., BİLGE H. Ş.
5th International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control, Famagusta, CYPRUS, 2 - 04 September 2009, pp.71-74
- LXXI. **Automatic Classification of Course Contents by Using Self-Organizing Maps**
Alpdoğan Y., BİLGE H. Ş.
International Symposium on INnovations in Intelligent SysTems and Applications, Trabzon, Turkey, 29 June - 01 July 2009, pp.461-465
- LXXII. **Efficient use of pseudo phase for motion estimation**
Atalar M., BİLGE H. Ş.
2009 IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.800-803
- LXXIII. **Global Ayırık Kosinüs Dönüşümü ile Görüntü Sıkıştırma Başarımın İyileştirilmesi**
GÜNLÜ G., BİLGE H. Ş.
11. Conference for Computer Aided Engineering and System Modeling, Bolu, Turkey, 01 January 2009
- LXXIV. **Adaptive Fusion of Shape From Shading and Photometric Stereo**
Karaman M., BİLGE H. Ş.
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.174-177
- LXXV. **3D Transformation Based Feature Extraction and Selection for 3D Face Recognition**
Gunlu G., BİLGE H. Ş.
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.674-675
- LXXVI. **Feature Extraction and Discriminating Feature Selection for 3D Face Recognition**
Gunlu G., BİLGE H. Ş.
24th International Symposium on Computer and Information Sciences, Güzelyurt, Cyprus (Kktc), 14 - 16 September 2009, pp.44-46
- LXXVII. **Face Recognition by Using 4D Discrete Cosine Transform**
Guenlue G., BİLGE H. Ş.
IEEE 16th Signal Processing and Communications Applications Conference, Aydın, Turkey, 20 - 22 April 2008, pp.597-598
- LXXVIII. **Face recognition with 3 dimensional profile by using iterative closest point algorithm**
Cevik O., BİLGE H. Ş.
IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007,

pp.913-914

- LXXIX. **Driver face recognition by using 3D discrete cosine transform**
Gunlu G., BİLGE H. Ş.
IEEE Intelligent Vehicles Symposium, İstanbul, Turkey, 13 - 15 June 2007, pp.705-706
- LXXX. **Semi-automatic calculation of prostate contour in ultrasound images**
BİLGE H. Ş., Verim V.
IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.354-357
- LXXXI. **Face recognition by using 3D Discrete Cosine Transform**
Guenlue G., BİLGE H. Ş.
IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.600-601
- LXXXII. **Güvenli İletişim İçin FPGA Kullanarak Şifreleme Sistemi Tasarımı ve Gerçekleştirilmesi**
Öcal F., BİLGE H. Ş.
1. Ulusal Elektronik İmza Sempozyumu konferansı, Ankara, Turkey, 7 - 08 December 2006, pp.64-69
- LXXXIII. **Altı Eksenli Robot Kolunun FPGA Tabanlı Kontrol Örneği**
Koca H., Ertaş Y., BİLGE H. Ş., TAPLAMACIOĞLU M. C.
Otomatik Kontrol Ulusal Toplantısı, İstanbul, Turkey, 2 - 03 June 2005, vol.560
- LXXXIV. **New Techniques in Underwater Acoustic Imaging for Unmanned Underwater Vehicles**
BİLGE H. Ş., KARAMAN M., Çiftçibaşı T.
6th AFCEA Türkiye 2003 International Seminar on Technology for Effective Defense, Ankara, Turkey, 7 - 08 May 2003, pp.44-56
- LXXXV. **Subarray delta sigma beamforming for low cost underwater acoustic imaging**
BİLGE H. Ş., KARAMAN M.
Oceans '02 MTS/IEEE, Biloxi, MI, United States Of America, 29 - 31 October 2002, vol.4, pp.2152-2155
- LXXXVI. **Subarray delta sigma beamforming for ultrasonic imaging**
BİLGE H. Ş., KARAMAN M.
2002 IEEE Ultrasonics Symposium, 2002. Proceedings., Munich, Germany, 8 - 11 October 2002, pp.1623-1626
- LXXXVII. **Verimli Bir Demetleme Yöntemi ile Ultrasonik Görüntüleme**
BİLGE H. Ş., Çiftçibaşı T.
URSI-Türkiye 2002 Birinci Ulusal Kongresi konferansı, İstanbul, Turkey, 18 - 20 September 2002, pp.431-434
- LXXXVIII. **Robotlarda Akustik Algılayıcılar ile Görme Sistemi için Bir Demetleme Yöntemi**
BİLGE H. Ş., Çiftçibaşı T.
Otomatik Kontrol Ulusal Toplantısı konferansı, Ankara, Turkey, 9 - 11 September 2002, vol.91
- LXXXIX. **Alt Dizilimden Dinamik Odaklama ile Alınan Sinyallerin Sigma Delta Çevirici ile Örneklenerek Etkin bir Yöntemle İşlenmesi**
BİLGE H. Ş., KARAMAN M.
10. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Denizli, Turkey, 12 - 14 June 2002, pp.334-349
- XC. **Ultrasonik Görüntüleme için bir Uyarlanırlı Histogram Denkleştirme Yöntemi**
BİLGE H. Ş.
10. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Denizli, Turkey, 12 - 14 June 2002
- XCI. **Subarray delta-sigma beamforming for low-cost underwater acoustic imaging**
Bilge H. Ş., Karaman M.
MTS/IEEE Oceans 2002 Conference, Mississippi, United States Of America, 29 - 31 October 2002, pp.2152-2155
- XCII. **Delta-sigma Örneklemeli Altdizilim Sinyallerinin Sayısal İşlenmesine Dayalı Evreyumlu Görüntüleme**
BİLGE H. Ş., Güven N., Özparlak L., KARAMAN M.
IEEE Sinyal İşleme ve Uygulamaları Kurultayı, Antalya, Turkey, 12 - 14 June 2000, pp.687-691
- XCIII. **Evreyumlu Görüntüleme Sistemleri için Demetleme Yöntemleri**
KARAMAN M., Abul M. A., Onart S., BİLGE H. Ş.
IEEE Sinyal İşleme ve Uygulamaları Kurultayı, Antalya, Turkey, 12 - 14 June 2000, pp.692-697
- XCIV. **Beneksel Gürültülü İmgeler İçin Bir Bölütme Yöntemi**

- Kepenekçi B., BİLGE H. Ş., KARAMAN M.
IEEE-Sinyal İşleme ve Uygulamaları Kurultayı (SIU2000), Antalya, Turkey, 12 - 14 June 2000, pp.422-426
- XCV. **Beneksel Gürültünün Uyarlanı Süzgeçlenmesi**
TEK F. B., BİLGE H. Ş., KARAMAN M.
IEEE Sinyal İşleme ve Uygulamaları Kurultayı, Antalya, Turkey, 12 - 14 June 2000, pp.634-639
- XCVI. **Motion estimation using common spatial frequencies in synthetic aperture imaging**
BİLGE H. Ş., KARAMAN M., ODonnell M.
1996 IEEE Ultrasonics Symposium. Proceedings, San-Antonio, Northern Mariana Islands, 3 - 06 November 1996, vol.2, pp.1551-1554
- XCVII. **Correlation analysis of ultrasonic speckle for motion estimation**
BİLGE H. Ş., KARAMAN M.
1996 IEEE Digital Signal Processing Workshop Proceedings, Loen, Norway, 1 - 04 September 1996, pp.211-214
- XCVIII. **Yapay Demetlemeye Dayalı Ultrasonik Görüntülemeye Hareket Tahmini**
BİLGE H. Ş., KARAMAN M.
4. Sinyal İşleme ve Uygulamaları Kurultayı, Antalya, Turkey, 5 - 06 April 1996, pp.427-432

Supported Projects

- Kılıçaslan İ., Bilge H. Ş., TUBITAK Project, Ultrason RF işaretlerinin oluşturduğu görüntüleme donanım tabanlı hızlandırılmış derin öğrenme yöntemleri uygulanarak B-Mod görüntü çözünürlüğünün gerçek zamanlı artırılması, 2022 - 2024
- Bilge H. Ş., Hardalaç F., TUBITAK Project, FPGA Üzerinde Evrişimsel Sinir Ağları Hızlandırma Yöntemlerinin İncelenmesi ve Etkin Bir Yöntemin Geliştirilmesi, 2021 - 2022
- Bilge H. Ş., Temiz H., TUBITAK Project, Derin Öğrenme Mimarileriyle Ultrason Görüntülerinde Süper Çözünürlük, 2019 - 2020
- BİLGE H. Ş., TUBITAK Project, Lorentz Uzayına Dayalı Yeni Bir Uzaklık Ölçütü Kullanarak Sınıflandırma Başarısının Artırılması, 2015 - 2017
- BİLGE H. Ş., Project Supported by Higher Education Institutions, Yüz Tanıma İçin 3 Boyutlu Ayrık Kosinüs Dönüşümü İle Özniteliklerin Çıkarılması, 2007 - 2014
- BİLGE H. Ş., Project Supported by Higher Education Institutions, Isı Borusu Kullanılarak Bilgisayarların Soğutulmasının Deneysel ve Sayısal Olarak İncelenmesi, 2009 - 2012
- BİLGE H. Ş., Project Supported by Higher Education Institutions, Ultrason Görüntülerinin Sayısal İşlenmesi, 2005 - 2007
- BİLGE H. Ş., Project Supported by Higher Education Institutions, Mobil Cihazlar İçin Akıllı Mikrofon, 2005 - 2007
- BİLGE H. Ş., Project Supported by Higher Education Institutions, Görüntü İşleme Laboratuvarı, 2004 - 2005
- BİLGE H. Ş., Project Supported by Higher Education Institutions, İşletim Sistemleri Laboratuvarı, 2004 - 2005

Patent

- Bilge H. Ş., FPGA Üzerinde Yüksek Hassasiyetli Lazer Tespit Sistemi ve Yöntemi, Patent, CHAPTER G Physics, The Invention Registration Number: 2023 009149 , Standard Registration, 2024
- Bilge H. Ş., HAREKET BULANIKLIĞINA DAYANIKLI GÖRSEL EŞ ZAMANLI KONUMLAMA VE HARİTALAMA (vSLAM) ÇERÇEVESİ, Patent, CHAPTER G Physics, The Invention Registration Number: 2021 016099 , Standard Registration, 2023
- Bilge H. Ş., GÜNDÜZ/TERMAL GÖRÜNTÜLERDE ES-HİBRİT YÖNTEMİ, Patent, CHAPTER G Physics, The Invention Recourse Number: 2022/005170 , Standard Registration, 2022
- Özmeriç Kurtuluş N., Akca G., Güneş S., Bilge H. Ş., Diş hekimliğinde sterilizasyon takip sistemi ve yöntemi, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2020/13967 , Standard Registration, 2020

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Publication: 144

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H-Index (WoS): 10

H-Index (Scopus): 10