

Prof. GÖZDE AKAR

Personal Information

Office Phone: [+90 312 210 2341](tel:+903122102341)

Email: bozdagi@metu.edu.tr

Web: <https://avesis.metu.edu.tr/bozdagi>

International Researcher IDs

ScholarID: HSmub9wAAAAJ

ORCID: 0000-0002-4227-5606

Publons / Web Of Science ResearcherID: AAZ-8753-2020

ScopusID: 55662888100

Yoksis Researcher ID: 9225

Biography

Gozde Bozdagi Akar was born in Ankara, [Turkiye \(Turkey\)](#), in 1967. She received her B.S. degree from [Middle East Technical University](#), Ankara, Turkey, M.S. and Ph.D. degrees from [Bilkent University](#), Ankara, Turkey, in 1988, 1990 and 1994, respectively, all in electrical and electronics engineering. She was with the [University of Rochester](#) and Center of Electronic Imaging Systems as a visiting research associate from 1994 to 1996. From 1996 to 1998, she worked as a member of research and technical staff at [Xerox Corporation](#) - Digital Imaging Technology Center, Rochester. From 1998-1999 she was with Baskent University, Dept of Elec. and Electronics Eng. During the summer of 1999, she worked as a visiting researcher at the Multimedia Labs of NJIT. Currently, she is a full Professor with the Department of Electrical and Electronics Engineering, [Middle East Technical University](#). Her research interests are in video processing, transmission, embedded system design, hyperspectral image analysis, mutimodel data analysis.

She has been an [IEEE](#) student member from 1986-1994, an IEEE member from 1994-1998 and an IEEE senior member since then. She was the founder and the first chairperson of IEEE Bilkent Student Branch in 1990 which was the first student branch in Turkey. From 1990 to 1992, she served as the IEEE Region 8 student representative. In 1995, she was elected as the treasurer of IEEE Rochester Section Signal Processing Chapter where she became the vice chair in 1996 and chair in 1997. In 1998, she has been elected as the R8 Vice Chair, Student Activities and in November 1999 she has been elected as the IEEE RAB Vice Chair, Student Activites. From 2003 to 2005, and 2013 to 2015 she was the Turkey section chair. In 2006, she has been appointed as the Section Outreach Committee Chair of EAB. She also served in the Branding AdHoc Committee and RAB/TAB Transnational Committee during 1999. She has been awarded by "IEEE RAB Leadership Award" in 2001 and "IEEE Turkey Distinguished Service Award" in 2019.

Education Information

Doctorate, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Elektrik-Elektronik Mühendisliği (Dr), Turkey 1990 - 1994

Postgraduate, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Elektrik Ve Elektronik Mühendisliği (YI) (Tezli), Turkey 1988 - 1990

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 1984 - 1988

Foreign Languages

English, C1 Advanced

Research Areas

Computer Sciences, Computer Vision, Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Pattern Recognition and Image Processing, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2010 - Continues

Associate Professor, Middle East Technical University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 1999 - 2010

Academic and Administrative Experience

Deputy Director of the Center, Middle East Technical University, Presidency Office, BİLTİR, 2018 - Continues

Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2014 - 2015

Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2008 - 2011

Advising Theses

AKAR G., Visible and infrared image fusion using encoder-decoder neural network, Postgraduate, F.CAN(Student), 2021

Akar G., A comparative analysis of emerging video codecs, Postgraduate, O.KIVANÇ(Student), 2020

Akar G., Learning-Based Methods for Multi-Modal and Multi-Spectral Data, Doctorate, S.ÖZKAN(Student), 2020

Akar G., Effect of quantization on the performance of deep networks, Postgraduate, B.KÜTÜKCÜ(Student), 2020

Akar G., EVALUATION OF DEEP LEARNING BASED MULTIPLE OBJECT TRACKERS, Postgraduate, O.MOURED(Student), 2020

Akar G., Through the wall target detection using textural features, Postgraduate, E.GEDİK(Student), 2019

Akar G., Double network superresolution, Doctorate, C.TARHAN(Student), 2019

Akar G., Hyperspectral data classification via capsule networks, Postgraduate, E.TOKER(Student), 2019

Akar G., Multi-feature fusion for GPR-based landmine detection and classification, Doctorate, A.GENÇ(Student), 2019

AKAR G., Automatic tests for camera performance analysis, Postgraduate, A.HASARPA(Student), 2018

AKAR G., A low cost learning based sign language recognition system, Postgraduate, A.HAKAN(Student), 2018

AKAR G., Automated image processing for scratch detection on specular surfaces, Postgraduate, V.OKBAY(Student), 2018

AKAR G., Convolutional neural network based brain MRI segmentation, Postgraduate, B.BAYDAR(Student), 2018

AKAR G., Buried wire detection using ground penetrating radars, Postgraduate, U.YILMAZ(Student), 2017

AKAR G., Hyperspectral imagery super-resolution, Doctorate, H.IRMAK(Student), 2017

AKAR G., An application of inpainting-based still image reanimation, Postgraduate, E.SELİN(Student), 2017

AKAR G., Forward-looking long-wave infrared image based prescreeener for landmine detection, Postgraduate, A.BAYRAM(Student), 2017

AKAR G., Super resolution on Linux televisions, Postgraduate, A.EGE(Student), 2016

AKAR G., Use of probability hypothesis density filter for human activity recognition, Doctorate, E.ERDEM(Student), 2016

AKAR G., DRIVER AGGRESSIVENESS ANALYSIS USING MULTISENSORY DATA FUSION, Postgraduate, Ö.KUMTEPE(Student), 2016

AKAR G., TEMİZEL A., GPU-enabled real-time panoramic background subtraction, Postgraduate, S.BÜYÜKSARAÇ(Student), 2015

AKAR G., Infrared face recognition, Postgraduate, U.KONUĞ(Student), 2015

AKAR G., Face segmentation in thermal images /, Postgraduate, M.ERYILMAZ(Student), 2015

AKAR G., Automatic vehicle detection and occlusion handling at road intersections, Postgraduate, B.ÜLKER(Student), 2015

AKAR G., An evaluation of ghost removal algorithms for exposure fusion, Postgraduate, T.KUTLU(Student), 2015

AKAR G., A robust quality metric for image super resolution, Postgraduate, Y.KİPMAN(Student), 2015

AKAR G., Robust quality metrics for assessing multimodal data, Doctorate, B.KONUĞ(Student), 2015

AKAR G., Sign language recognition by image analysis /, Postgraduate, B.BÜYÜKSARAÇ(Student), 2015

AKAR G., A Robust quality metric for image super resolution /, Postgraduate, Y.Kipman(Student), 2015

AKAR G., Effects of atmospheric correction on vehicle classification with single and dual band infrared images, Doctorate, S.ÖZSARAÇ(Student), 2014

AKAR G., Real-time single frame superresolution, Postgraduate, C.TARHAN(Student), 2014

AKAR G., Content-based video copy detection /, Postgraduate, S.ÖZKAN(Student), 2014

AKAR G., AKYÜZ A. O. , GPU based infrared signature modeling and scene simulation /, Postgraduate, Ç.KAVAK(Student), 2014

GENÇER N. G. , AKAR G., A mass detection algorithm for mammogram images /, Postgraduate, M.YEŞİLKAYA(Student), 2014

AKAR G., Bayesian multi frame super resolution, Doctorate, E.Turgay(Student), 2014

AKAR G., Real-time traffic sign detection and recognition on FPGA, Postgraduate, H.YALÇIN(Student), 2013

AKAR G., A portable stereo-video streaming system, Postgraduate, E.ZERMAN(Student), 2013

AKAR G., A fast shape detection approach by directional integrations, Doctorate, O.ERMAN(Student), 2013

AKAR G., Moving vehicle classification, Postgraduate, D.DUMAN(Student), 2013

AKAR G., FPGA implementation of license plate detection and recognition, Postgraduate, S.SARIKAVAK(Student), 2013

AKAR G., A Comparative evaluation of foreground / background segmentation algorithms, Postgraduate, M.Pakyürek(Student), 2012

AKAR G., Analysis and comparison of the contrast enhancement techniques for infrared images, Postgraduate, A.Ergün(Student), 2012

AKAR G., Moving hot object detection in airborne thermal videos, Postgraduate, U.Kaba(Student), 2012

AKAR G., Stereo video broadcasting over DVB-H, Postgraduate, D.Buğdaycı(Student), 2012

AKAR G., Image dynamic range enhancement, Postgraduate, S.Özyürek(Student), 2011

AKAR G., Human activity recognition by Gait Analysis, Doctorate, B.Kepenekci(Student), 2011

AKAR G., Evaluation of visual quality metrics, Postgraduate, R.Ferhat(Student), 2011

BULUT M. M. , AKAR G., A robust traffic sign recognition system, Postgraduate, H.Caner(Student), 2011

AKAR G., Error concealment in 3d video, Postgraduate, S.Aydoğmuş(Student), 2011

AKAR G., Visual quality assessment for stereoscopic video sequences, Postgraduate, S.Sefa(Student), 2011

AKAR G., Implementation of a low-cost smart camera application on a cots system, Postgraduate, H.Kerem(Student), 2011

AKAR G., Human activity analysis by gait recognition, Doctorate, B.KEPENEKÇİ(Student), 2011

AKAR G., A comparative evaluation of super - resolution methods on color images, Postgraduate, F.Erbay(Student), 2011

AKAR G., Graduate school of natural and applied sciences : electrical and electronic engineering, Doctorate, A.Aksay(Student), 2010

AKAR G., An FPGA implementation of real-time electro-optic & IR image fusion, Postgraduate, İ.Melih(Student), 2010

BULUT M. M. , AKAR G., Real time traffic sign recognition system on FPGA, Postgraduate, H.Irmak(Student), 2010

BULUT M. M. , AKAR G., Hand gesture recognition system, Postgraduate, E.Gingir(Student), 2010

AKAR G., Robust transmission of 3D models, Doctorate, M.Oğuz(Student), 2010

AKAR G., User directed view synthesis on omap processors, Postgraduate, M.Yıldız(Student), 2009

AKAR G., Video segmentation based on audio feature extraction, Postgraduate, N.Atar(Student), 2009

AKAR G., Hardware implementation of inverse transform & quantization and deblocking filter for low power H.264 decoder, Postgraduate, Ö.Önsay(Student), 2009

AKAR G., A framework for a personalized e-learning system, Doctorate, E.Özpolat(Student), 2009

AKAR G., Hardware implementation of an active feature tracker for surveillance applications, Postgraduate, B.Solmaz(Student), 2008

AKAR G., Implementation of a distributed video codec, Postgraduate, C.Vedat(Student), 2008

AKAR G., Error resilient coding using flexible macroblock ordering in wired and wireless communications, Postgraduate, A.Murat(Student), 2008

AKAR G., Design and fpga implementation of an efficient deinterleaving algorithm, Postgraduate, M.Ertuğ(Student), 2008

AKAR G., Color and shape based traffic sign detection, Postgraduate, E.Ulay(Student), 2008

AKAR G., Constructing panoramic scenes from aerial videos, Postgraduate, E.Erdem(Student), 2007

AKAR G., A hybrid approach for full frame loss concealment of multiview video, Postgraduate, Ç.BİLEN(Student), 2007

AKAR G., Palmprint recognition based on 2-d gabor filters, Postgraduate, B.Konuk(Student), 2007

AKAR G., 2-d mesh-based motion estimation and video object manipulation, Postgraduate, H.Kaval(Student), 2007

AKAR G., Design and implementation of a voltage source converter based statcom for reactive power compensation and harmonic filtering, Doctorate, E.Gürses(Student), 2006

AKAR G., Quantization index modulation based watermarking using digital holography, Postgraduate, O.Erman(Student), 2006

AKAR G., Automatic eye tracking and intermediate view reconstruction for 3D imaging systems, Postgraduate, Y.Bediz(Student), 2006

AKAR G., Feature based modulation recognition for intrapulse modulations, Postgraduate, G.Çevik(Student), 2006

AKAR G., Fast intra/inter mode decision for a real-time H.264 streaming system, Postgraduate, Ö.Alay(Student), 2006

AKAR G., Textured motion analysis, Postgraduate, K.Öztekin(Student), 2005

AKAR G., Template based image watermarking in the fractional fourier domain, Postgraduate, T.Gökozan(Student), 2005

AKAR G., Real-time video encoder on tmsc6000 platform, Postgraduate, B.Erdoğan(Student), 2004

AKAR G., MPEG-7 compliant ORDBMS based image storage and retrieval system, Postgraduate, K.Kerim(Student), 2004

AKAR G., System parameter adaptation based on image metrics for automatic target detection, Postgraduate, K.Kürekli(Student), 2004

AKAR G., Robust watermarking of images, Postgraduate, S.Eren(Student), 2003

AKAR G., Video segmentation using partially decoded MPEG bitstream, Postgraduate, I.Burcun(Student), 2003

AKAR G., Implementation of a wireless streaming system for universal multimedia access, Postgraduate, H.Ünsem(Student), 2003

Akar G., Implementation of a real-time video codec on a multi processor DSP architecture., Postgraduate, S.İnce(Student), 2002

Akar G., Congestion control in real-time digital video transmission over the internet, Postgraduate, A.Güler(Student), 2002

Akar G., Implementation of the music algorithm on a multiprocessor architecture, Postgraduate, M.Şengül(Student), 2002

Bozdağı G., Motion wavelet video compression, Postgraduate, A.Aksay(Student), 2001

Bozdağı G., XML based image retrieval system, Postgraduate, T.Noyan(Student), 2000

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **CHAOS Challenge- combined (CT-MR) healthy abdominal organ segmentation**
Kavur A. E. , GEZER N. S. , Baris M., ASLAN S., Conze P., Groza V., Duc Duy Pham D. D. P. , Chatterjee S., Ernst P., Ozkan S., et al.
MEDICAL IMAGE ANALYSIS, vol.69, 2021 (SCI-Expanded)
- II. **Comparison of semi-automatic and deep learning-based automatic methods for liver segmentation in living liver transplant donors**
Kavur A. E. , GEZER N. S. , Baris M., Sahin Y., Ozkan S., Baydar B., Yuksel U., Kilicier C., Olut S., AKAR G., et al.
DIAGNOSTIC AND INTERVENTIONAL RADIOLOGY, vol.26, no.1, pp.11-21, 2020 (SCI-Expanded)
- III. **Combination of physics-based and image-based features for landmine identification in ground penetrating radar data**

- Genc A., AKAR G.
 JOURNAL OF APPLIED REMOTE SENSING, vol.13, no.2, 2019 (SCI-Expanded)
- IV. **Convolutional neural networks analysed via inverse problem theory and sparse representations**
 Tarhan C., Akar G.
 IET SIGNAL PROCESSING, vol.13, no.2, pp.215-223, 2019 (SCI-Expanded)
- V. **EndNet: Sparse AutoEncoder Network for Endmember Extraction and Hyperspectral Unmixing**
 Ozkan S., Kaya B., Akar G. B.
 IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol.57, no.1, pp.482-496, 2019 (SCI-Expanded)
- VI. **A MAP-Based Approach for Hyperspectral Imagery Super-Resolution**
 IRMAK H., Akar G., Yuksel S. E.
 IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.27, no.6, pp.2942-2951, 2018 (SCI-Expanded)
- VII. **Driver aggressiveness detection via multisensory data fusion**
 Kumtepe O., Akar G. B. , Yuncu E.
 EURASIP JOURNAL ON IMAGE AND VIDEO PROCESSING, 2016 (SCI-Expanded)
- VIII. **Atmospheric Effects Removal for the Infrared Image Sequences**
 Ozsarac S., AKAR G.
 IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol.53, no.9, pp.4899-4909, 2015 (SCI-Expanded)
- IX. **Texture and edge preserving multiframe super-resolution**
 Turgay E., AKAR G.
 IET IMAGE PROCESSING, vol.8, no.9, pp.499-508, 2014 (SCI-Expanded)
- X. **Joint source-channel coding for error resilient transmission of static 3D models**
 Bici M. O. , Norkin A., AKAR G.
 TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.20, no.3, pp.391-412, 2012 (SCI-Expanded)
- XI. **Improved prediction methods for scalable predictive animated mesh compression**
 Bici M. O. , AKAR G.
 JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, vol.22, no.7, pp.577-589, 2011 (SCI-Expanded)
- XII. **Three-Dimensional Media for Mobile Devices**
 Gotchev A., Akar G. B. , Capin T., Strohmeier D., Boev A.
 PROCEEDINGS OF THE IEEE, vol.99, no.4, pp.708-741, 2011 (SCI-Expanded)
- XIII. **Multiple description coding of animated meshes**
 Bici M. O. , AKAR G.
 SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.25, no.10, pp.729-744, 2010 (SCI-Expanded)
- XIV. **Architectures for multi-threaded MVC-compliant multi-view video decoding and benchmark tests**
 Gurler C. G. , Aksay A., Akar G. B. , Tekalp A. M.
 SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.25, no.5, pp.325-334, 2010 (SCI-Expanded)
- XV. **End-to-end stereoscopic video streaming with content-adaptive rate and format control**
 Aksay A., Pehlivan S., Kurutepe E., Bilen C., OZCELEBİ T., Akar G. B. , Civanlar M. R. , Tekalp A. M.
 SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.22, no.2, pp.157-168, 2007 (SCI-Expanded)
- XVI. **Schemes for multiple description coding of stereoscopic video**
 Norkin A., Aksay A., Bilen C., Akar G. B. , Gotchev A., Astola J.
 MULTIMEDIA CONTENT REPRESENTATION, CLASSIFICATION AND SECURITY, vol.4105, pp.730-737, 2006 (SCI-Expanded)
- XVII. **A comparison on textured motion classification**
 Oztekin K., Akar G. B.
 MULTIMEDIA CONTENT REPRESENTATION, CLASSIFICATION AND SECURITY, vol.4105, pp.722-729, 2006 (SCI-Expanded)
- XVIII. **Face verification competition on the XM2VTS database**
 Messer K., Kittler J., Sadeghi M., Marcel S., Marcel C., Bengio S., Cardinaux F., Sanderson C., Czyz J., Vandendorpe L., et al.

Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), vol.2688, pp.964-974, 2003 (SCI-Expanded)

XIX. NEW HIGH-RESOLUTION DISPLAY DEVICE FOR HOLOGRAPHIC 3-DIMENSIONAL VIDEO - PRINCIPLES AND SIMULATIONS

ONURAL L., BOZDAGI G., ATALAR A.

OPTICAL ENGINEERING, vol.33, no.3, pp.835-844, 1994 (SCI-Expanded)

Articles Published in Other Journals

I. A video-based analysis of rhythmic accuracy and maintenance in junior tennis players

Söğüt M., Ayser S., Akar G.

Pamukkale Spor Bilimleri Dergisi, vol.8, no.2, pp.73-78, 2017 (Peer-Reviewed Journal)

II. Motion wavelet compression

Aksay A., AKAR G., Akhan M., Temizel A., Duhamel P.

IEE Colloquium (Digest), no.19, pp.169-172, 2000 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. Exploiting Local Indexing and Deep Feature Confidence Scores for Fast Image-to-Video Search

Ozkan S., AKAR G.

25th International Conference on Pattern Recognition (ICPR), ELECTR NETWORK, 10 - 15 January 2021, pp.4926-4932

II. VISIBLE AND INFRARED IMAGE FUSION USING ENCODER-DECODER NETWORK

Ataman F. C. , AKAR G.

2021 IEEE International Conference on Image Processing, ICIP 2021, Alaska, United States Of America, 19 - 22 September 2021, vol.2021-September, pp.1779-1783

III. Binarized Weight Networks for Inverse Problems

Ozkan S., Becek K., Inci A., Kutukcu B., Ugurcali F., Kaya M. C. , AKAR G.

28th Signal Processing and Communications Applications Conference (SIU), ELECTR NETWORK, 5 - 07 October 2020

IV. Dental X-ray Image Segmentation using Octave Convolution Neural Network

Kaya M. C. , AKAR G.

28th Signal Processing and Communications Applications Conference (SIU), ELECTR NETWORK, 5 - 07 October 2020

V. Hyperspectral Data to Relative Lidar Depth: An Inverse Problem for Remote Sensing

AKAR G., Özkan S.

Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition Workshops, 13 - 15 July 2019

VI. Effect of Visual Context Information for Super Resolution Problems

Aykut E., Becek K., Cengiz B., Ozkan S., AKAR G.

27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019

VII. Automated Image Processing for Scratch Detection on Specular Surfaces

Okbay V., Akar G., Yaman U.

International Conference and Exhibition on Digital Transformation and Smart Systems, Ankara, Turkey, 24 - 26 October 2018

VIII. Deep Spectral Convolution Network for Hyperspectral Unmixing

AKAR G., ÖZKAN S.

IEEE International Conf on Image Processing, Greece, 7 - 10 October 2018, pp.3313-3317

IX. Image Fusion for Hyperspectral Image Super-resolution

Irmak H., AKAR G., YÜKSEL S. E.

IEEE Workshop on Hyperspectral Image and Remote Sensing (Whispers), 23 - 26 September 2018

- X. **Automatic color accuracy tests for camera performance comparison**
HASARPA A., AKAR G.
26. IEEE Sinyal İşleme ve İletişim Uygulamaları (SIU 2018) Kurultayı, İzmir, Turkey, 2 - 05 May 2018
- XI. **A comparison of inpainting techniques in image reanimation**
BÖNCÜ E. S. , AKAR G.
26. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı, İzmir, Turkey, 02 May 2019 - 05 May 2018
- XII. **A GPR-based landmine identification method using energy and dielectric features**
AKAR G., GENÇ a.
SPIE DEFENSE, Orlando, United States Of America, 10 - 14 April 2018
- XIII. **Relaxed Spatio-Temporal Deep Feature Aggregation for Real-Fake Expression Prediction**
Ozkan S., AKAR G.
16th IEEE International Conference on Computer Vision (ICCV), Venice, Italy, 22 - 29 October 2017, pp.3094-3100
- XIV. **Fusion based resolution enhancement in hyperspectral images Hiperspektral Görüntülerde Kaynaştırma Temelli Çözünürlük Artırımı**
IRMAK H., Akar G., Yuksel S. E.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- XV. **Forward-Looking Infrared Imagery for Landmine Detection**
Bayram A., Akar G. B.
Conference on Infrared Technology and Applications XLIII, California, United States Of America, 9 - 13 April 2017, vol.10177
- XVI. **Radiometric Features for Vehicle Classification with Infrared Images**
Ozsarac S., Akar G. B.
Conference on Automatic Target Recognition XXVII, California, United States Of America, 10 - 11 April 2017, vol.10202
- XVII. **KLMS based prescreener approach on landmine detection and fusion with various types of prescreener algorithms (Fusion of KLMS and Blob Based Pre-Screener for Buried Land Mine Detection Using Ground Penetrating Radar)**
baydar b., AKAR G., YÜKSEL S. E. , öztürk s.
SPIE DEFENSE, 17 - 19 April 2016
- XVIII. **SUPER-RESOLUTION RECONSTRUCTION OF HYPERSPECTRAL IMAGES VIA AN IMPROVED MAP-BASED APPROACH**
Irmak H., AKAR G., Yuksel S. E. , Aytaylan H.
36th IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Beijing, China, 10 - 15 July 2016, pp.7244-7247
- XIX. **Super Resolution Reconstruction Of Hyperspectral Images Via An Improved Map Based Approach**
Irmak H., YÜKSEL S. E. , AKAR G., aytaylan h.
IEEE International Geoscience and Remote Sensing Symposium, 10 - 15 July 2016
- XX. **GPU Based Infrared Signature Modeling and Scene Simulation**
Kavak Ç., AKAR G.
The 11th International IR Target and Background Modeling & Simulation Workshop, 27 - 30 June 2016
- XXI. **Video Content Analysis Method for Audiovisual Quality Assessment**
Konuk B., Zerman E., NUR YILMAZ G., Akar G. B.
8th International Conference on Quality of Multimedia Experience (QoMEX), Lisbon, Portugal, 6 - 08 June 2016
- XXII. **Hyperspectral Imagery Superresolution**
Irmak H., AKAR G., Yuksel S. E.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1057-1060
- XXIII. **A Novel Adaptive Pre Screener For Ground Penetrating Radar**
Baydar B., AKAR G.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016,

pp.1229-1232

- XXIV. **A Multimodal Approach for Aggressive Driving Detection**
Kumtepe O., Yuncu E., AKAR G.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016,
pp.729-732
- XXV. **Real time panoramic background subtraction on GPU**
BÜYÜKSARAÇ S., AKAR G., TEMİZEL A.
2016 24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, Turkey, 16 - 19
May 2016
- XXVI. **Sign Language Recognition By Image Analysis**
Buyuksarac B., Bulut M. M. , Akar G. B.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016,
pp.417-420
- XXVII. **Feasible Local Content Representation For Image In Video Search On Large Video Collection**
Özkan S., Esen E., AKAR G.
Sinyal İşleme ve Uygulamaları Kurultayı, Turkey, 16 - 19 May 2016
- XXVIII. **Fusion of KLMS and Blob Based Pre-Screener for Buried Landmine Detection Using Ground
Penetrating Radar**
Baydar B., AKAR G., Yuksel S. E. , Ozturk S.
Conference on Detection and Sensing of Mines, Explosive Objects, and Obscured Targets XXI, Maryland, United
States Of America, 18 - 21 April 2016, vol.9823
- XXIX. **Driver Aggressiveness Detection Using Visual Information from Forward Camera**
Kumtepe O., Akar G. B. , Yuncu E.
12th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS), Karlsruhe,
Germany, 25 - 28 August 2015
- XXX. **VISUAL AND TEXTUAL FEATURE FUSION FOR AUTOMATIC CUSTOMS TARIFF CLASSIFICATION**
Turhan B., AKAR G., TURHAN Ç., Yuksel C.
IEEE 16th International Conference on Information Reuse and Integration, San-Francisco, Costa Rica, 13 - 15
August 2015, pp.76-81
- XXXI. **A MAP-BASED APPROACH TO RESOLUTION ENHANCEMENT OF HYPERSPECTRAL IMAGES**
Irmak H., AKAR G., Yuksel S. E.
7th Workshop on Hyperspectral Image and Signal Processing - Evolution in Remote Sensing (WHISPERS), Tokyo,
Japan, 2 - 05 June 2015
- XXXII. **Content Aware Audiovisual Quality Assessment**
Konuk B., Zerman E., AKAR G., NUR YILMAZ G.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015,
pp.966-969
- XXXIII. **On Vehicle Aggressive Driving Behavior Detection Using Visual Information**
Kumtepe O., AKAR G., Yuncu E.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015,
pp.795-798
- XXXIV. **Görsel Veri Kullanarak Araç Üzerinde Agresif Sürüş Davranışı Tespiti**
Omurcan K., AKAR G., Yüncü E.
SIU 2015, Turkey, 16 - 19 May 2015
- XXXV. **A Novel Tool for Evaluating Rhythmic Ability**
Söğüt M., Ayser S., Akar G.
1st International Symposium on Sport Sciences, Engineering and Technology, İstanbul, Turkey, 10 - 13 May 2015
- XXXVI. **Effects of Tempo on Rhythmic Accuracy and Maintenance**
Söğüt M., Ayser S., Akar G.
1st International Symposium on Sport Sciences, Engineering and Technology, İstanbul, Turkey, 10 - 13 May 2015
- XXXVII. **Fusion of forward-looking infrared camera and down-looking ground penetrating radar for buried**

target detection

Yuksel S. E. , Akar G. B. , Ozturk S.

Conference on Detection and Sensing of Mines, Explosive Objects, and Obscured Targets XX, Maryland, United States Of America, 20 - 23 April 2015, vol.9454

XXXVIII. A PARAMETRIC VIDEO QUALITY MODEL BASED ON SOURCE AND NETWORK CHARACTERISTICS

Zerman E., Konuk B., NUR YILMAZ G., Akar G. B.

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Supported Projects

AKAR G., BÖNCÜ E. S. , Project Supported by Higher Education Institutions, Kameralı güvenlik sistemleri için kalite ölçümü, 2018 - 2019

Alatan A. A. , Kamışlı F., Akyüz A. O. , Temizel A., Halıcı U., Ulusoy İ., Saranlı A., Akar G., Böncü E. S. , Çakırgöz Ç. C. , Project Supported by Defense Industry, Kent Güvenlik Yönetim Sistemleri için Bilişsel Kamera Geliştirilmesi Projesi , 2018 - 2019

Memberships / Tasks in Scientific Organizations

ELOTEG, Executive Board Member, 2019 - Continues, Turkey

Tasks In Event Organizations

Akar G., IEEE International Conference on Image Processing, Scientific Congress, Abu Dhabi, United Arab Emirates, Ekim 2020

Metrics

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Awards

Akar G., IEEE Türkiye Şubesi Üstün Hizmet Ödülü, Ieee, December 2019

Akar G., IEEE RAB Leadership Award, Ieee, September 2001