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Eğitim Bilgileri

Bütünleşik Doktora, Georgia Institute of Technology, Amerika Birleşik Devletleri 1999 - 2003

Lisans, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1994 - 1999

Araştırma Alanları

Bilgisayarla Görme, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma

Akademik Unvanlar / Görevler

Prof.Dr., İstanbul Medipol Üniversitesi, Mühendislik ve Doğa Bilimleri Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2016 - Devam Ediyor

Doç.Dr., İstanbul Medipol Üniversitesi, Mühendislik ve Doğa Bilimleri Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2014 - 2016

Doç.Dr., Louisiana State University and Agricultural and Mechanical College, 2009 - 2014

Dr.Öğr.Üyesi, Louisiana State University and Agricultural and Mechanical College, 2003 - 2009

Akademik İdari Deneyim

İstanbul Medipol Üniversitesi, 2014 - Devam Ediyor

Yönetilen Tezler

Mehmet K., Bahadır Kürşat G., DERİN ÖĞRENME TEKNİKLERİ KULLANARAK PARMAK, EL VE TİTREME VERİLERİYLE PARKİNSON HASTALIĞININ SINIFLANDIRILMASI, Yüksek Lisans, B.GÜL(Öğrenci), 2023

Bahadır Kürşat G., A comprehensive survey on small object detection, Yüksek Lisans, M.AHMET(Öğrenci), 2021

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Bahadır Kürşat G., Path loss prediction from heightmap using deep learning, Yüksek Lisans, M.BAL(Öğrenci), 2021

Bahadır Kürşat G., Altitude optimization of UAVS serving as base stations using deep learning, Yüksek Lisans, I.SHOER(Öğrenci), 2020

Bahadır Kürşat G., Dynamic range enhancement in light field imaging systems, Yüksek Lisans, A.WAHAB(Öğrenci), 2019

Bahadır Kürşat G., Image enhancement through new techniques in computational photography, Doktora, M.ZESHAN(Öğrenci), 2019

Bahadır Kürşat G., Super resolution of light fields using convolutional neural network, Yüksek Lisans, M.SHAHZEB(Öğrenci), 2018

Bahadır Kürşat G., Extending light field camera capabilities, Yüksek Lisans, M.UMAIR(Öğrenci), 2017

Bahadır Kürşat G., Extracting sub-exposure images from a single capture through fourier-based optical modulation, Yüksek Lisans, S.REZ(Öğrenci), 2017

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Deep learning-based blind image super-resolution with iterative kernel reconstruction and noise estimation**
Ates H. F., Yildirim S., GÜNTÜRK B. K.
Computer Vision and Image Understanding, cilt.233, 2023 (SCI-Expanded)
- II. **HMRN: heat map regression network to detect and track small objects in wide-area motion imagery**
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- III. **Light field extraction from a conventional camera**
Alam M. Z., GÜNTÜRK B. K.
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- IV. **Regression of Large-Scale Path Loss Parameters Using Deep Neural Networks**
Bal M., Marey A., Ates H. F., Baykas T., GÜNTÜRK B. K.
IEEE Antennas and Wireless Propagation Letters, cilt.21, sa.8, ss.1562-1566, 2022 (SCI-Expanded)
- V. **PL-GAN: Path Loss Prediction Using Generative Adversarial Networks**
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- VI. **HM-Net: A Regression Network for Object Center Detection and Tracking on Wide Area Motion Imagery**
Motorcu H., Ates H. F., Ugurdag H. F., GÜNTÜRK B. K.
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- VII. **Predicting Path Loss Distribution of an Area from Satellite Images Using Deep Learning**
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- VIII. **Space-variant blur kernel estimation and image deblurring through kernel clustering**
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- IX. **Path Loss Exponent and Shadowing Factor Prediction from Satellite Images Using Deep Learning**
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- X. **Light field super resolution through controlled micro-shifts of light field sensor**
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- XI. **Spatial and angular resolution enhancement of light fields using convolutional neural networks**
Gul M. S. K., GÜNTÜRK B. K.
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- XII. **Extracting sub-exposure images from a single capture through Fourier-based optical modulation**
Khan S. R., Feldman M., GÜNTÜRK B. K.

- Signal Processing: Image Communication, cilt.60, ss.107-115, 2018 (SCI-Expanded)
- XIII. **Hybrid light field imaging for improved spatial resolution and depth range**
Alam M. Z., GÜNTÜRK B. K.
Machine Vision and Applications, cilt.29, sa.1, ss.11-22, 2018 (SCI-Expanded)
- XIV. **Extending depth of field and dynamic range from differently focused and exposed images**
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MULTIDIMENSIONAL SYSTEMS AND SIGNAL PROCESSING, cilt.27, sa.2, ss.493-509, 2016 (SCI-Expanded)
- XV. **Blind super-resolution restoration with frame-by-frame nonparametric blur estimation**
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- XVI. **Measuring food intake with digital photography**
Martin C. K., Nicklas T., Gunturk B. K., Correa J. B., Allen H. R., Champagne C.
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- XVII. **Multi-transmitter aperture synthesis with Zernike based aberration correction**
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- XIX. **Camera phasing in multi-aperture coherent imaging**
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- XX. **Validity of the Remote Food Photography Method (RFPM) for Estimating Energy and Nutrient Intake in Near Real-Time**
Martin C. K., Correa J. B., Han H., Allen H. R., Rood J. C., Champagne C. M., Gunturk B. K., Bray G. A.
OBESITY, cilt.20, sa.4, ss.891-899, 2012 (SCI-Expanded)
- XXI. **Fast Bilateral Filter With Arbitrary Range and Domain Kernels**
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- XXII. **Illumination robust interest point detection**
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COMPUTER VISION AND IMAGE UNDERSTANDING, cilt.113, sa.4, ss.565-571, 2009 (SCI-Expanded)
- XXIII. **Restoration of Bayer-sampled image sequences**
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Computer Journal, cilt.52, sa.1, ss.1-14, 2009 (SCI-Expanded)
- XXIV. **Multiresolution bilateral filtering for image denoising**
Zhang M., GÜNTÜRK B. K.
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- XXV. **Superresolution under photometric diversity of images**
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- XXVI. **High-resolution image reconstruction from multiple differently exposed images**
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- XXVII. **Demosaicking: Color filter array interpolation**
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- XXVIII. **Super-resolution reconstruction of compressed video using transform-domain statistics**
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- XXIX. **Eigenface-domain super-resolution for face recognition**

GÜNTÜRK B. K., Batur A. U., Altunbasak Y., Hayes III M. H., Mersereau R. M.

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XXX. **Color plane interpolation using alternating projections**

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XXXI. **Multiframe resolution-enhancement methods for compressed video**

GÜNTÜRK B. K., Altunbasak Y., Mersereau R.

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XXXII. **Multiframe blocking-artifact reduction for transform-coded video**

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Diğer Dergilerde Yayınlanan Makaleler

I. **Preface**

GÜNTÜRK B. K., Li X.

Image Restoration: Fundamentals and Advances, cilt.33, 2012 (Scopus)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **Swin Transformer based Siamese Network for Thermal and Optical Image Registration Termal ve Optik Görüntü Çakıştırması için Swin Dönüştürücü tabanlı Siyam Ağı**

Elsaeidy M., Yagmur I. C., Ateş H. F., GÜNTÜRK B. K.

31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Türkiye, 5 - 08 Temmuz 2023

II. **ITERATIVE KERNEL RECONSTRUCTION FOR DEEP LEARNING-BASED BLIND IMAGE SUPER-RESOLUTION**

YILDIRIM S., Ates H. F., GÜNTÜRK B. K.

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III. **Dynamic range and depth of field extension using camera array Kamera dizisi ile dinamik aralık ve odak derinliği arttırma**

Alam M. Z., GÜNTÜRK B. K.

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IV. **Dual Camera Based High Spatio-Temporal Resolution Video Generation For Wide Area Surveillance**

Suluhan H. U., Ates H. F., GÜNTÜRK B. K.

18th IEEE International Conference on Advanced Video and Signal-Based Surveillance, AVSS 2022, Virtual, Online, İspanya, 29 Kasım - 02 Aralık 2022

V. **PREDICTING PATH LOSS DISTRIBUTIONS OF A WIRELESS COMMUNICATION SYSTEM FOR MULTIPLE BASE STATION ALTITUDES FROM SATELLITE IMAGES**

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VI. **Improved YOLOv4 for aerial object detection**

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VII. **Anomaly detection in wide area imagery Geniş alan görüntülerinde anomali tespiti**

Sahin A. H., Ates H. F., GÜNTÜRK B. K.

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- VIII. **Analysis of deep learning based path loss prediction from satellite images Uydu görüntülerinden derin öğrenme tabanlı yol kaybı tahmini analizi**
Alam M. Z., Ates H. F., Baykas T., GÜNTÜRK B. K.
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- IX. **Deep Learning-Based Blind Image Super-Resolution using Iterative Networks**
Yaar A., Ates H. F., GÜNTÜRK B. K.
2021 International Conference on Visual Communications and Image Processing, VCIP 2021, Munich, Almanya, 5 - 08 Aralık 2021
- X. **Deconvolution based light field extraction from a single image capture**
Alam M. Z., GÜNTÜRK B. K.
25th IEEE International Conference on Image Processing, ICIP 2018, Athens, Yunanistan, 7 - 10 Ekim 2018, ss.420-424
- XI. **Hybrid-sensor high-resolution light field imaging Hibrid sensörlü yüksek çözünürlüklü Işık alan görüntüleme**
Mukati M. U., GÜNTÜRK B. K.
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- XII. **High dynamic range imaging using a plenoptic camera**
Wahab A., Alam M. Z., GÜNTÜRK B. K.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Türkiye, 15 - 18 Mayıs 2017
- XIII. **Hybrid-sensor high-resolution light field imaging**
Mukati M. U., Gunturk B. K.
2017 25TH SIGNAL PROCESSING AND COMMUNICATIONS APPLICATIONS CONFERENCE (SIU)
- XIV. **Light field registration: A multi-view geometry approach Isik Alani Çakistirmasi: Çok Görüntülü Geometri Yaklasimi**
Mukati M. U., GÜNTÜRK B. K.
24th Signal Processing and Communication Application Conference, SIU 2016, Zonguldak, Türkiye, 16 - 19 Mayıs 2016, ss.1289-1292
- XV. **Hybrid stereo imaging including a light field and a regular camera Isik Alani Kamerasi ve Normal Kamera İçeren Hibrid Stereo Görüntüleme**
Alam M. Z., GÜNTÜRK B. K.
24th Signal Processing and Communication Application Conference, SIU 2016, Zonguldak, Türkiye, 16 - 19 Mayıs 2016, ss.1293-1296
- XVI. **Space-Varying Blur Kernel Estimation and Image Deblurring**
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DIGITAL PHOTOGRAPHY X, San Francisco, CA, Amerika Birleşik Devletleri, 3 - 05 Şubat 2014, cilt.9023
- XVII. **Super-Resolution Restoration of Motion Blurred Images**
Qian Q., Gunturk B. K.
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- XVIII. **Frequency division multiplexed imaging: a Texas Instruments DMD implementation**
Habibkhani H., Gunturk B. K., Feldman M., Batur A. U.
EMERGING DIGITAL MICROMIRROR DEVICE BASED SYSTEMS AND APPLICATIONS VI, San Francisco, CA, Amerika Birleşik Devletleri, 4 - 05 Şubat 2014, cilt.8979
- XIX. **Joint Focus Stacking and High Dynamic Range Imaging**
Qian Q., Gunturk B. K., Batur A. U.
DIGITAL PHOTOGRAPHY IX, cilt.8660

- XX. **Food image analysis for measuring food intake in free living conditions**
Dibiano R., Gunturk B. K., Martin C. K.
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- XXI. **Frequency Division Multiplexed Imaging**
Gunturk B. K., Feldman M.
DIGITAL PHOTOGRAPHY IX, cilt.8660
- XXII. **Improving the Performance of Interest Point Detectors with Contrast Stretching Functions**
Gunashekhar P. K., Gunturk B. K.
IMAGE PROCESSING: MACHINE VISION APPLICATIONS VI, cilt.8661
- XXIII. **Glottis segmentation using dynamic programming**
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- XXIV. **A NEW BIOMECHANICAL MODEL OF VOCAL FOLD VIBRATIONS: PRELIMINARY EXPERIMENTAL VALIDATION**
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- XXV. **High Dynamic Range Imaging of Non-Static Scenes**
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- XXVI. **Joint photometric registration and optical flow estimation**
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- XXVII. **Fast bilateral filter with arbitrary range and domain kernels**
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- XXVIII. **Compression artifact reduction with adaptive bilateral filtering**
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- XXIX. **Quantification of food intake using food image analysis**
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- XXX. **Reliable interest point detection under large illumination variations**
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- XXXI. **Image demosaicing: A systematic survey**
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- XXXIV. **Super resolution approaches for photometrically diverse image sequences**
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- XXXVIII. **Reconfigurable implementation of wavelet integer lifting transforms for image compression**
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- XXXIX. **Feature-based image registration in log-polar domain**
Thunuguntla S., Gunturk B. K.
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- XL. **Handling exposure time in multi-frame image restoration**
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- XLI. **Image acquisition modeling for super-resolution reconstruction**
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2005 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP), VOLS 1-5, ss.2157-2160
- XLII. **Super-resolution reconstruction from differently exposed images**
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- XLIII. **Multi-frame information fusion for gray-scale and spatial enhancement of images**
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- XLIV. **Eigenface-based super-resolution for face recognition**
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2002 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING, VOL II, PROCEEDINGS, ss.845-848
- XLV. **Color plane interpolation using alternating projections**
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- XLVII. **Bayesian resolution-enhancement framework for transform-coded video**
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XLVIII. A multi-frame blocking artifact reduction method for transform-coded video

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2001 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, VOLS I-VI,
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Metrikler

Yayın: 81

Atf (Scopus): 3263

H-İndeks (Scopus): 19