

Prof. Dr. Bahadır Kürşat GÜNTÜRK

Kişisel Bilgiler

E-posta: bkgunturk@medipol.edu.tr

Web: <https://avesis.medipol.edu.tr/bkgunturk>

Uluslararası Araştırmacı ID'leri

ScholarID: ctk0e5wAAAAJ

ORCID: 0000-0003-0779-9620

Publons / Web Of Science ResearcherID: G-1609-2019

ScopusID: 6602111220

Yoksis Araştırmacı ID: 206060

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

Bahadır Kürşat G., Mehmet K., 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

Bahadır Kürşat G., Deep learning based prediction of path loss values and distributions from satellite images, Yüksek Lisans, A.MOHAMED(Öğrenci), 2021

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- 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. **HM-Net: A Regression Network for Object Center Detection and Tracking on Wide Area Motion Imagery**
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- VI. **PL-GAN: Path Loss Prediction Using Generative Adversarial Networks**
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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.
IEEE Transactions on Image Processing, cilt.27, sa.5, ss.2146-2159, 2018 (SCI-Expanded)
- XII. **Extracting sub-exposure images from a single capture through Fourier-based optical modulation**
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- 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.
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- 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**
Gunturk B. K., Miller N. J., Watson E. A.
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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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- 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**
GÜNTÜRK B. K., Altunbasak Y., Mersereau R. M.
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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**

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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**

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

Shoer I., GÜNTÜRK B. K., Ates H. F., Baykas T.

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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.

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V. **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.

30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Türkiye, 15 - 18 Mayıs 2022

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

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

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

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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**
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29th IEEE Conference on Signal Processing and Communications Applications, SIU 2021, Virtual, Istanbul, Türkiye, 9 - 11 Haziran 2021
- 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. **High dynamic range imaging using a plenoptic camera**
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25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Türkiye, 15 - 18 Mayıs 2017
- XII. **Hybrid-sensor high-resolution light field imaging Hibrid sensörlü yüksek çözünürlüklü Işık alan görüntüleme**
Mukati M. U., 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. **Super-Resolution Restoration of Motion Blurred Images**
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- XVII. **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
- XVIII. **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
- XIX. **Frequency Division Multiplexed Imaging**
Gunturk B. K., Feldman M.
DIGITAL PHOTOGRAPHY IX, cilt.8660

- XX. **Joint Focus Stacking and High Dynamic Range Imaging**
Qian Q., Gunturk B. K., Batur A. U.
DIGITAL PHOTOGRAPHY IX, cilt.8660
- XXI. **Glottis segmentation using dynamic programming**
Chen J., Gunturk B. K., Kunduk M.
MEDICAL IMAGING 2013: IMAGE PROCESSING, cilt.8669
- XXII. **Food image analysis for measuring food intake in free living conditions**
Dibiano R., Gunturk B. K., Martin C. K.
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- XXIII. **Improving the Performance of Interest Point Detectors with Contrast Stretching Functions**
Gunashekhar P. K., Gunturk B. K.
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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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- XXX. **Reliable interest point detection under large illumination variations**
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- XXXI. **Image demosaicing: A systematic survey**
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- XXXII. **A new image denoising framework based on bilateral filter**
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- XXXIV. **On geometric and photometric registration of images**
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- XXXV. **POCS-based restoration of Bayer-sampled image sequences**
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- XXXVI. **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. **Color plane interpolation using alternating projections**
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2002 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, VOLS I-IV, PROCEEDINGS, ss.3333-3336
- XLV. **Eigenface-based super-resolution for face recognition**
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- XLVII. **A multi-frame blocking artifact reduction method for transform-coded video**
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XLVIII. **Bayesian resolution-enhancement framework for transform-coded video**

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

2001 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING, VOL II, PROCEEDINGS, ss.41-44

Metrikler

Yayın: 81

Atf (Scopus): 3263

H-İndeks (Scopus): 19