

Kişisel Bilgiler

İş Telefonu: [+90 312 210 2351](tel:+903122102351)

Fax Telefonu: [+90 312 210 2304](tel:+903122102304)

E-posta: alatan@metu.edu.tr

Web: <https://users.metu.edu.tr/alatan>

Posta Adresi: ODTÜ Elektrik ve Elektronik Mühendisliği Bölümü, Balgat 06800 Ankara



Uluslararası Araştırmacı ID'leri

ScholarID: h6mCaBoAAAAJ

ORCID: 0000-0001-5556-7301

Publons / Web Of Science ResearcherID: E-3927-2012

ScopusID: 6701890979

Yoksis Araştırmacı ID: 27988

Eğitim Bilgileri

Doktora, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü,
Elektrik-Elektronik Mühendisliği (Dr), Türkiye 1992 - 1997

Yüksek Lisans, Imperial College of Science, Technology and Medicine, Elektrik Ve
Elektronik Mühendisliği, Birleşik Krallık 1991 - 1992

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik
Mühendisliği Bölümü, Türkiye 1986 - 1990

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

Bilgisayar Bilimleri, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma, Örüntü Tanıma ve Görüntü İşleme ,
Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2010 - Devam
Ediyor

Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2004 - 2010

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2000 -
2004

Öğretim Görevlisi Dr., New Jersey Institute of Technology, 1998 - 2000

Öğretim Görevlisi Dr., Rensselaer Polytechnic Institute, 1997 - 1998

Araştırma Görevlisi, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği
Bölümü, 1993 - 1997

Akademik İdari Deneyim

Orta Doğu Teknik Üniversitesi, Ogam, 2014 - Devam Ediyor

Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2008 - 2013

Yönetilen Tezler

- ALATAN A. A., An analysis of stereo depth estimation utilizing attention mechanisms, self-supervised pose estimators & temporal predictions, Yüksek Lisans, U.OĞUZMAN(Öğrenci), 2022
- ALATAN A. A., Utilization of event based cameras for video frame interpolation, Yüksek Lisans, O.SELİM(Öğrenci), 2022
- ALATAN A. A., Utilization of dense depth information for monoview object detection and instance segmentation, Yüksek Lisans, Ç.CAN(Öğrenci), 2022
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- ALATAN A. A., A novel learning-based image matching approach based on mutual nearest neighbor search with ratio test, Yüksek Lisans, U.EFE(Öğrenci), 2021
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- Kalkan S., Alatan A. A., An Analysis on the Effect of Dynamic Range on Object Detection with Deep Neural Networks, Yüksek Lisans, İ.HAKKI(Öğrenci), 2021
- ALATAN A. A., Yarı denetimli eğitilmiş katlamalı filtreler ile görsel obje takibi, Yüksek Lisans, E.Can(Öğrenci), 2020
- ALATAN A. A., Visual object detection and tracking using local convolutional context features and recurrent neural networks, Yüksek Lisans, E.CAN(Öğrenci), 2018
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- ALATAN A. A., Geospatial object recognition using deep networks for satellite images, Yüksek Lisans, O.BARUT(Öğrenci), 2018
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- ALATAN A. A., Good features to correlate for visual tracking, Doktora, E.GÜNDOĞDU(Öğrenci), 2017
- ALATAN A. A., VURAL E., Spectral graph based approach for analysis of 3D LIDAR point clouds, Yüksek Lisans, E.BAYRAM(Öğrenci), 2017
- ALATAN A. A., Representing images and regions for object recognition, Yüksek Lisans, İ.BUZCU(Öğrenci), 2015
- ALATAN A. A., Hierarchical representations for visual object tracking by detection, Yüksek Lisans, B.BEŞBİNAR(Öğrenci), 2015
- ALATAN A. A., Robust content-based copy detection and information theoretic indexing strategies, Doktora, A.SARACOĞLU(Öğrenci), 2015
- ALATAN A. A., Saliency-based visual tracking using correlation filters for surveillance applications, Yüksek Lisans, E.TUNALI(Öğrenci), 2014
- ALATAN A. A., Deep convolutional neural networks with an application towards geospatial object recognition, Yüksek Lisans, E.BATI(Öğrenci), 2014
- ALATAN A. A., Occlusion aware stereo matching with $O(1)$ complexity, Yüksek Lisans, Y.ZİYA(Öğrenci), 2014
- ALATAN A. A., Planar 3D scene representations for depth compression, Doktora, B.OĞUZ(Öğrenci), 2014
- ALATAN A. A., Örtmeleri gözeterek $O(1)$ karmaşıklıkta stereo eşleme., Yüksek Lisans, Y.Ziya(Öğrenci), 2014
- ALATAN A. A., Accurate 3D tracking using visual and depth data, Doktora, O.SERDAR(Öğrenci), 2014

ALATAN A. A., Tracking by classification, Yüksek Lisans, T.MARPUÇ(Öğrenci), 2013

ALATAN A. A., Visual-inertial sensor fusion for 3D urban modeling, Doktora, S.SIRTKAYA(Öğrenci), 2013

ALATAN A. A., Occlusion-aware 3D multiple object tracking for visual surveillance, Doktora, O.TOPÇU(Öğrenci), 2013

ALATAN A. A., An efficient graph-theoretical approach for interactive mobile image and video segmentation, Yüksek Lisans, O.ŞENER(Öğrenci), 2013

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ALATAN A. A., A complexity-utility framework for optimizing quality of experience for visual content in mobile devices, Doktora, Ö.DENİZ(Öğrenci), 2012

ALATAN A. A., Feature detection and matching towards augmented reality applications on mobile devices, Yüksek Lisans, E.GÜNDOĞDU(Öğrenci), 2012

ALATAN A. A., Digital surface models from spaceborne images without ground control, Doktora, Y.ATASEVEN(Öğrenci), 2012

ALATAN A. A., Joint utilization of local appearance descriptors and semi-local geometry for multi-view object recognition, Doktora, M.SOYSAL(Öğrenci), 2012

ALATAN A. A., Steganography through perspective invariance, Doktora, Y.YAŞAROĞLU(Öğrenci), 2012

ALATAN A. A., A fully automatic shape based geo-spatial object recognition, Yüksek Lisans, M.ERGÜL(Öğrenci), 2012

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ALATAN A. A., Vision-assisted object tracking, Yüksek Lisans, K.ARDA(Öğrenci), 2012

ALATAN A. A., Global appearance based airplane detection from satellite imagery, Yüksek Lisans, D.ARSLAN(Öğrenci), 2012

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ALATAN A. A., İki görüntülü video ve uçuş süresi kamerası ile gerçek zamanlı gelişigüzel görü imgesi oluşturulması, Yüksek Lisans, T.Kağan(Öğrenci), 2010

ALATAN A. A., Shadow detection and compensation in aerial images with an application to building height estimation, Yüksek Lisans, A.ŞEREF(Öğrenci), 2010

ALATAN A. A., Real-time arbitrary view rendering from stereo video and time-of-flight camera, Yüksek Lisans, T.KAĞAN(Öğrenci), 2010

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ALATAN A. A., Üç boyut gösterimler için görünmez damgalama yöntemleri, Doktora, A.Koz(Öğrenci), 2007

ALATAN A. A., Dense depth map estimation for object segmentation in multi-view video, Yüksek Lisans, C.ÇİĞLA(Öğrenci), 2007

ALATAN A. A., Prioritized 3D scene reconstruction and rate-distortion efficient representation for video sequences, Doktora, E.İMRE(Öğrenci), 2007

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ALATAN A. A., Localization and recognition of text in digital media, Yüksek Lisans, A.SARACOĞLU(Öğrenci), 2007

ALATAN A. A., Sık derinlik haritası ile çok-görüntülü video kodlaması, Yüksek Lisans, B.Oğuz(Öğrenci), 2006

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ALATAN A. A., Bağımsız olarak hareket eden nesneler içeren bir sahnenin çoklu resimlerden 3 boyutlu sahne yapısının çıkarılması, Yüksek Lisans, E.Tola(Öğrenci), 2005

ALATAN A. A., Geliştirilmiş bölge modellemesiyle resim bölütleme, Yüksek Lisans, O.Ersoy(Öğrenci), 2004

ALATAN A. A., Rasgele görüntülerde ilgi noktası eşleme., Yüksek Lisans, İ.Bayram(Öğrenci), 2004

ALATAN A. A., 2 boyutlu ve 3 boyutlu sahnelerde hareketli nesne tespiti., Yüksek Lisans, S.Sırtkaya(Öğrenci), 2004

ALATAN A. A., Kızılötesi görüntülerde otomatik hedef tanıma., Yüksek Lisans, T.Makbule(Öğrenci), 2004

ALATAN A. A., İçerik tabanlı çoklu ortam endekslemesi için ses ve görüntü bilgisi yardımıyla saklı Markov modeli kullanarak video özetleme, Yüksek Lisans, Y.Yaşaroğlu(Öğrenci), 2003

ALATAN A. A., Bilgi saklama ile dayanıklı video iletimi, Yüksek Lisans, A.Yılmaz(Öğrenci), 2003

ALATAN A. A., Boyut indirgeme yoluyla bütüncü yüz tanıma, Yüksek Lisans, A.Bahtiyar(Öğrenci), 2003

ALATAN A. A., Anlamsal tanımlamalar için görüntü öznitelikleri birleştirme, Yüksek Lisans, M.Soydal(Öğrenci), 2003

ALATAN A. A., Kaynakları sınırlı cihazlara yönelik fayda kuramına dayanan video adaptasyonu, Yüksek Lisans, Ö.Deniz(Öğrenci), 2003

ALATAN A. A., Digital watermarking based on human visual system, Yüksek Lisans, A.KOZ(Öğrenci), 2002

ALATAN A. A., Detecting and recognizing text from video frames, Yüksek Lisans, S.TEKİNALP(Öğrenci), 2002

ALATAN A. A., Face detection using learning networks, Yüksek Lisans, F.BORAY(Öğrenci), 2002

ALATAN A. A., Face detection using a mixture of subspaces, Yüksek Lisans, E.TAŞLIDERE(Öğrenci), 2002

ALATAN A. A., Face recognition using Gabor wavelet transform, Yüksek Lisans, B.KEPENEKÇİ(Öğrenci), 2001

Araştırma Altyapısı Bilgileri

Alatan A. A., Görüntü Analizi Uygulama ve Araştırma Merkezi, Ağustos 2014

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **TMO-Det: Deep tone-mapping optimized with and for object detection**
Kocdemir I. H., Koz A., AKYÜZ A. O., Chalmers A., ALATAN A. A., Kalkan S.
Pattern Recognition Letters, cilt.172, ss.230-236, 2023 (SCI-Expanded)
- II. **Ground-based Hyperspectral Image Surveillance System for Explosive Detection: Methods, Experiments, and Comparisons**
Kütük M., Geneci I., Özdemir O. B., Koz A., Esentürk O., Cetin Y. Y., Alatan A. A.
IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, cilt.16, ss.8747-8763, 2023 (SCI-Expanded)
- III. **Vision-based estimation of the number of occupants using video cameras**
Dino İ., Kalfaoglu E., Iseri O. K., Erdogan B., Kalkan S., Alatan A. A.
Advanced Engineering Informatics, cilt.53, 2022 (SCI-Expanded)
- IV. **Image-based construction of building energy models using computer vision**
GÜRSEL DİNO İ., Sari A. E., Iseri O. K., Akin S., Kalfaoglu E., Erdogan B., KALKAN S., ALATAN A. A.
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- V. **Fine-grained recognition of maritime vessels and land vehicles by deep feature embedding**
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IET COMPUTER VISION, cilt.12, ss.1121-1132, 2018 (SCI-Expanded)

- VI. **Analysis of Airborne LiDAR Point Clouds With Spectral Graph Filtering**
Bayram E., Frossard P., Vural E., Alatan A. A.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, cilt.15, ss.1284-1288, 2018 (SCI-Expanded)
- VII. **Good Features to Correlate for Visual Tracking**
Gundogdu E., Alatan A. A.
IEEE TRANSACTIONS ON IMAGE PROCESSING, cilt.27, ss.2526-2540, 2018 (SCI-Expanded)
- VIII. **Extending Correlation Filter-Based Visual Tracking by Tree-Structured Ensemble and Spatial Windowing**
Gundogdu E., Özkan H., Alatan A. A.
IEEE TRANSACTIONS ON IMAGE PROCESSING, cilt.26, ss.5270-5283, 2017 (SCI-Expanded)
- IX. **Comparison of 3D local and global descriptors for similarity retrieval of range data**
Bayramoglu N., Alatan A. A.
NEUROCOMPUTING, cilt.184, ss.13-27, 2016 (SCI-Expanded)
- X. **Joint utilization of local appearance and geometric invariants for 3D object recognition**
Soysal M., Alatan A. A.
MULTIMEDIA TOOLS AND APPLICATIONS, cilt.74, ss.2611-2637, 2015 (SCI-Expanded)
- XI. **Convexity constrained efficient superpixel and supervoxel extraction**
Tasli H. E., Çiğla C., Alatan A. A.
SIGNAL PROCESSING-IMAGE COMMUNICATION, cilt.33, ss.71-85, 2015 (SCI-Expanded)
- XII. **3D Planar Representation of Stereo Depth Images for 3DTV Applications**
Ozkalayci B. O., Alatan A. A.
IEEE TRANSACTIONS ON IMAGE PROCESSING, cilt.23, ss.5222-5232, 2014 (SCI-Expanded)
- XIII. **Multimodal concept detection in broadcast media: KavTan**
SOYSAL M., Logoglu K. B., TEKİN M., ESEN E., SARACOĞLU A., Acar B. O., Ozan E. C., Ates T. K., SEVİMLİ H., SEVİNÇ M., et al.
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- XIV. **An efficient recursive edge-aware filter**
Cigla C., Alatan A. A.
SIGNAL PROCESSING-IMAGE COMMUNICATION, cilt.29, ss.998-1014, 2014 (SCI-Expanded)
- XV. **Efficient MRF Energy Propagation for Video Segmentation via Bilateral Filters**
Sener O., Ugur K., Alatan A. A.
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- XVI. **User assisted disparity remapping for stereo images**
Tasli H. E., Alatan A. A.
SIGNAL PROCESSING-IMAGE COMMUNICATION, cilt.28, ss.1374-1389, 2013 (SCI-Expanded)
- XVII. **Information permeability for stereo matching**
Cigla C., Alatan A. A.
SIGNAL PROCESSING-IMAGE COMMUNICATION, cilt.28, ss.1072-1088, 2013 (SCI-Expanded)
- XVIII. **3-D Rigid Body Tracking Using Vision and Depth Sensors**
Gedik O. S., Alatan A. A.
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- XIX. **Introduction to the Issue on Emerging Techniques in 3-D**
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- XX. **Dominant sets based movie scene detection**
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- XXI. **Comparison of Forbidden Zone Data Hiding and Quantization Index Modulation**
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- XXIII. **Joint Utilization of Appearance, Geometry and Chance for Scene Logo Retrieval**
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- XXIV. **Watermarking of Free-view Video**
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- XXV. **Rate-Distortion Efficient Piecewise Planar 3-D Scene Representation From 2-D Images**
Imre E., Alatan A. A., Gueduekbay U.
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- XXVI. **Special issue on advances in three-dimensional television and video: Guest editorial**
Gudukbay U., Alatan A. A.
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- XXVII. **Error detection and concealment for video transmission using information hiding**
YILMAZ A., Alatan A. A.
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- XXVIII. **Oblivious spatio-temporal watermarking of digital video by exploiting the human visual system**
Koz A., Alatan A. A.
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- XXIX. **Scene representation technologies for 3DTV - A survey**
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- XXX. **3-d time-varying scene capture technologies - A survey**
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- XXXI. **Towards 3-D scene reconstruction from broadcast video**
Imre E., KNORR S., ÖZKALAYCI B., TOPAY U., Alatan A. A., SIKORA T.
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- XXXII. **Fast Outlier rejection by using parallax-based rigidity constraint for epipolar geometry estimation**
Tola E., Alatan A. A.
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- XXXIII. **Recognizing events in an automated surveillance system**
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- XXXIV. **Combining MPEG-7 based visual experts for reaching semantics**
Soysal M., Alatan A.
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- XXXV. **Summarizing video: Content, features, and HMM topologies**
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- XXXVI. **Robot mimicking: A visual approach for human machine interaction**

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- XXXVII. **Multi-modal dialog scene detection using hidden Markov models for content-based multimedia indexing**
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- XXXVIII. **Unequal error protection of SPIHT encoded image bit streams**
Alatan A. A., ZHAO M. Y., AKANSU A. N.
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- XXXIX. **Image sequence analysis for emerging interactive multimedia services - The European COST 211 framework**
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- XL. **Estimation of depth fields suitable for video compression based on 3-D structure and motion of objects**
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- XLI. **3-D motion estimation of rigid objects for video coding applications using an improved iterative version of the E-matrix method**
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Kitap & Kitap Bölümleri

- I. **3D Watermarking: Techniques and Directions**
KOZ A., Triantafyllidis G., ALATAN A. A.
Three-Dimensional Television, Ozaktas H.M., Onural L., Editör, Springer, Berlin, ss.427-470, 2020
- II. **Next Generation Frame Rate Conversion Algorithms**
Gedik O. S., Türetken E., Alatan A. A.
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- IV. **Gibbs Model Based 3D Motion and Structure Estimation for Object-Based Video Coding Applications**
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