

Prof. ABDULLAH AYDIN ALATAN

Personal Information

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International Researcher IDs

ScholarID: h6mCaBoAAAAJ

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

ScopusID: 6701890979

Yoksis Researcher ID: 27988



Biography

A. Aydın Alatan was born in Ankara, Turkey in 1968. He received his B.S. degree from [Middle East Technical University](#), Ankara Turkey in 1990, the M.S and DIC degrees from [Imperial College of Science, Medicine and Technology](#), London, UK in 1992, and PhD degree from [Bilkent University](#), Ankara Turkey in 1997, all in Electrical Engineering.

He was a post-doctoral research associate at [Center for Image Processing Research](#) at [Rensselaer Polytechnic Institute](#) between 1997 and 1998 and at [New Jersey Center for Multimedia Research](#) at [New Jersey Institute of Technology](#) between 1998 and 2000. In August 2000, he joined faculty of [Electrical and Electronics Engineering Department](#) at [Middle East Technical University](#).

He is the founding director for Center for Image Analysis ([OGAM](#)).

He is a member of [The Science Academy](#) of Turkey.

Education Information

1992 - 1997	Doctorate, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Elektrik-Elektronik Mühendisliği (Dr), Turkey
1991 - 1992	Postgraduate, Imperial College of Science, Technology and Medicine, Elektrik Ve Elektronik Mühendisliği, United Kingdom
1986 - 1990	Undergraduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey

Foreign Languages

English, C1 Advanced

Research Areas

Academic Titles / Tasks

2010 - Continues	Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering
2004 - 2010	Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering
2000 - 2004	Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering
1998 - 2000	Lecturer PhD, New Jersey Institute of Technology
1997 - 1998	Lecturer PhD, Rensselaer Polytechnic Institute
1993 - 1997	Research Assistant, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering

Academic and Administrative Experience

2014 - Continues	Manager of Research and Application Center, Middle East Technical University
2008 - 2013	Deputy Head of Department, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü

Advising Theses

2023	Alatan A. A., Postgraduate, A.GÖRGÜN(Student), Interpreting convolutional blocks as feature embedding by template matching for image recognition
2023	Alatan A. A., Postgraduate, S.BURAK(Student), Brain-inspired learning for face analysis in artificial neural networks: A multitask and continual learning framework
2023	Alatan A. A., Doctorate, M.ERGÜL(Student), Visual semantic segmentation with diminished supervision
2022	ALATAN A. A., Doctorate, Y.ZİYA(Student), Novel optimization models to generalize deep metric learning
2022	ALATAN A. A., Postgraduate, Ç.CAN(Student), Utilization of dense depth information for monoview object detection and instance segmentation
2022	ALATAN A. A., Postgraduate, U.OĞUZMAN(Student), An analysis of stereo depth estimation utilizing attention mechanisms, self-supervised pose estimators & temporal predictions
2022	ALATAN A. A., Postgraduate, O.SELİM(Student), Utilization of event based cameras for video frame interpolation
2021	ALATAN A. A., Postgraduate, A.KÖKSAL(Student), Moving object detection with supervised learning methods
2021	ALATAN A. A., Postgraduate, K.KARAMAN(Student), Deep metric learning with distance sensitive entangled triplet losses
2021	ALATAN A. A., Postgraduate, İ.EMRE(Student), Semantic color constancy
2021	Kalkan S., Alatan A. A., Postgraduate, İ.HAKKI(Student), An Analysis on the Effect of Dynamic Range on Object Detection with Deep Neural Networks
2021	ALATAN A. A., Postgraduate, U.EFE(Student), A novel learning-based image matching approach based on mutual nearest neighbor search with ratio test

- 2020 Kalkan S., Alatan A. A., Postgraduate, M.ESAT(Student), EXPLORING DEEP SPATIO-TEMPORAL FUSION ARCHITECTURES TOWARDS LATE TEMPORAL MODELING OF HUMAN ACTION RECOGNITION
- 2020 Kalkan S., Alatan A. A., Postgraduate, A.EREN(Student), A Thorough Analysis of Unsupervised Depth and Ego-motion Estimation
- 2020 ALATAN A. A., Postgraduate, E.Can(Student), Visual object tracking using semi supervised convolutional filters
- 2018 ALATAN A. A., Postgraduate, M.KÜTÜK(Student), Hiperspektral görüntüler için süperpiksel tabanlı hedef tespit yöntemleri
- 2018 ALATAN A. A., Postgraduate, O.BARUT(Student), Geospatial object recognition using deep networks for satellite images
- 2018 ALATAN A. A., Postgraduate, E.CAN(Student), Visual object detection and tracking using local convolutional context features and recurrent neural networks
- 2018 ALATAN A. A., Postgraduate, O.CAN(Student), Metric learning using deep recurrent networks for visual clustering and retrieval
- 2017 ALATAN A. A., VURAL E., Postgraduate, E.BAYRAM(Student), Spectral graph based approach for analysis of 3D LIDAR point clouds
- 2017 ALATAN A. A., Postgraduate, A.ÇALIŞKAN(Student), Stratified calibration and group synchronized focal length estimation for structure from motion algorithms
- 2017 ALATAN A. A., Doctorate, K.GÖKALP(Student), Superpixel based image sequence representation and motion estimation
- 2017 ALATAN A. A., Doctorate, E.GÜNDOĞDU(Student), Good features to correlate for visual tracking
- 2015 ALATAN A. A., Postgraduate, İ.BUZCU(Student), Representing images and regions for object recognition
- 2015 ALATAN A. A., Doctorate, A.SARACOĞLU(Student), Robust content-based copy detection and information theoretic indexing strategies
- 2015 ALATAN A. A., Postgraduate, B.BEŞBİNAR(Student), Hierarchical representations for visual object tracking by detection
- 2014 ALATAN A. A., Postgraduate, E.BATI(Student), Deep convolutional neural networks with an application towards geospatial object recognition /
- 2014 ALATAN A. A., Postgraduate, Y.Ziya(Student), Occlusion aware stereo matching with $o(1)$ complexity /
- 2014 ALATAN A. A., Doctorate, O.SERDAR(Student), Accurate 3D tracking using visual and depth data
- 2014 ALATAN A. A., Postgraduate, E.TUNALI(Student), Saliency-based visual tracking using correlation filters for surveillance applications /
- 2014 ALATAN A. A., Postgraduate, Y.ZİYA(Student), Occlusion aware stereo matching with $O(1)$ complexity
- 2014 ALATAN A. A., Doctorate, B.OĞUZ(Student), Planar 3D scene representations for depth compression
- 2013 ALATAN A. A., Postgraduate, O.ŞENER(Student), An efficient graph-theoretical approach for interactive mobile image and video segmentation
- 2013 ALATAN A. A., Doctorate, H.EMRAH(Student), Superpixel based efficient image representation for segmentation and classification
- 2013 ALATAN A. A., Postgraduate, T.MARPUÇ(Student), Tracking by classification
- 2013 ALATAN A. A., Doctorate, S.SIRTKAYA(Student), Visual-inertial sensor fusion for 3D urban modeling
- 2013 ALATAN A. A., Postgraduate, Y.AKSOY(Student), Efficient inertially aided visual odometry towards mobile augmented reality

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

2012 ALATAN A. A., Doctorate, Y.YAŞAROĞLU(Student), Steganography through perspective invariance

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

2012 ALATAN A. A., Doctorate, C.ÇİĞLA(Student), Real-time stereo to multi-view video conversion

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

2012 ALATAN A. A., Postgraduate, D.ARSLAN(Student), Global appearance based airplane detection from satellite imagery

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

2012 ALATAN A. A., Postgraduate, M.ERGÜL(Student), A fully automatic shape based geo-spatial object recognition

2012 ALATAN A. A., Postgraduate, K.ARDA(Student), Vision-assisted object tracking

2012 ALATAN A. A., Postgraduate, G.ÇETİNKAYA(Student), A comparative study on pose estimation algorithms using visual data

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

2011 ALATAN A. A., Postgraduate, Ç.AYTEKİN(Student), Geo-spatial object detection using local descriptors

2011 ALATAN A. A., Doctorate, N.YALÇIN(Student), Range data recognition: Segmentation, matching, and similarity retrieval

2010 ALATAN A. A., Doctorate, E.ESEN(Student), Quantization based data hiding strategies with visual applications

2010 ALATAN A. A., ÇİLOĞLU T., Postgraduate, A.ERTÜRK(Student), Rotation, scale and rotation invariant automatic target recognition using template matching for satellite imagery

2010 ALATAN A. A., Postgraduate, T.Kağan(Student), Real-time arbitrary view rendering from stereo video and time-of-flight camera

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

2010 ALATAN A. A., HALICI U., Postgraduate, M.ÇETİN(Student), Extraction of buildings in satellite images

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

2009 ALATAN A. A., Postgraduate, K.GÖKALP(Student), Computer simulation and implementation of a visual 3-D eye gaze tracker for autostereoscopic displays

2009 ALATAN A. A., Postgraduate, B.GÜNYEL(Student), Motion Compensated Frame Rate Up Conversion Via Block Based Motion Estimation With Occlusion Handling

2008 ALATAN A. A., Postgraduate, E.EMİR(Student), A comparative performance evaluation of scale invariant interest point detectors for infrared and visual images

2008 ALATAN A. A., Postgraduate, E.VURAL(Student), Robust extraction of sparse 3D points from image sequences

2008 ALATAN A. A., Postgraduate, E.AŞAN(Student), Video shot boundary detection by graph theoretic approaches

2008 ALATAN A. A., Postgraduate, E.TÜRETKEN(Student), Motion segmentation and its applications to depth ordering and frame rate up-conversion

2007 ALATAN A. A., Postgraduate, A.SARACOĞLU(Student), Localization and recognition of text in digital media

2007 ALATAN A. A., Doctorate, A.Koz(Student), Watermarking for 3D representations

2007	ALATAN A. A., Postgraduate, C.ÇIĞLA(Student), Dense depth map estimation for object segmentation in multi-view video
2007	ALATAN A. A., Doctorate, E.İMRE(Student), Prioritized 3D scene reconstruction and rate-distortion efficient representation for video sequences
2007	ALATAN A. A., Postgraduate, O.AKMAN(Student), Multi-camera video surveillance: Detection, occlusion handling, tracking and event recognition
2006	ALATAN A. A., Postgraduate, B.Oğuz(Student), Multi-view video coding via dense depth field
2005	ALATAN A. A., Postgraduate, B.Birant(Student), Moving object identification and event recognition in video surveillance systems
2005	ALATAN A. A., Postgraduate, E.Tola(Student), Multiview 3d reconstruction of a scene containing independently moving objects
2004	ALATAN A. A., Postgraduate, O.Ersoy(Student), Image segmentation with Improved region modeling
2004	ALATAN A. A., Postgraduate, T.Makbule(Student), Automatic target recognition in infrared imagery
2004	ALATAN A. A., Postgraduate, S.Sirtkaya(Student), Moving Object Detction in 2D and 3D Scenes
2004	ALATAN A. A., Postgraduate, İ.Bayram(Student), Interest point matching across arbitrary views
2003	ALATAN A. A., Postgraduate, Y.Yaşaroğlu(Student), Multi-modal video summarization using hidden Markov models for content-based multimedia indexing
2003	ALATAN A. A., Postgraduate, A.Yilmaz(Student), Robust video transmission using data hiding
2003	ALATAN A. A., Postgraduate, Ö.Deniz(Student), Optimal video adaptation for resource constrained mobile devices based on utility theory
2003	ALATAN A. A., Postgraduate, A.Bahtiyar(Student), Holistic face recognition by dimension reduction
2003	ALATAN A. A., Postgraduate, M.Soyosal(Student), Combining image features for semantic descriptions
2002	ALATAN A. A., Postgraduate, F.BORAY(Student), Face detection using learning networks.
2002	ALATAN A. A., Postgraduate, A.KOZ(Student), Digital watermarking based on human visual system
2002	ALATAN A. A., Postgraduate, E.TAŞLIDERE(Student), Face detection using a mixture of subspaces.
2002	ALATAN A. A., Postgraduate, S.TEKİNALP(Student), Detecting and recognizing text from video frames.
2001	ALATAN A. A., Postgraduate, B.KEPENEKCİ(Student), Face recognition using Gabor wavelet transform

Research Infrastructure Information

August 2014

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

Published journal articles indexed by SCI, SSCI, and AHCI

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, vol.172, pp.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, vol.16, pp.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, vol.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.
AUTOMATION IN CONSTRUCTION, vol.116, 2020 (SCI-Expanded)
- V. **Fine-grained recognition of maritime vessels and land vehicles by deep feature embedding**
Solmaz B., Gundogdu E., Yucesoy V., Koc A., Alatan A. A.
IET COMPUTER VISION, vol.12, pp.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, vol.15, pp.1284-1288, 2018 (SCI-Expanded)
- VII. **Good Features to Correlate for Visual Tracking**
Gundogdu E., Alatan A. A.
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.27, pp.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, vol.26, pp.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, vol.184, pp.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, vol.74, pp.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, vol.33, pp.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, vol.23, pp.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.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.72, no.3, pp.2787-2832, 2014 (SCI-Expanded)
- XIV. **An efficient recursive edge-aware filter**
Cigla C., Alatan A. A.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.29, pp.998-1014, 2014 (SCI-Expanded)
- XV. **Efficient MRF Energy Propagation for Video Segmentation via Bilateral Filters**
Sener O., Ugur K., Alatan A. A.
IEEE TRANSACTIONS ON MULTIMEDIA, vol.16, pp.1292-1302, 2014 (SCI-Expanded)
- XVI. **User assisted disparity remapping for stereo images**
Tasli H. E., Alatan A. A.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.28, pp.1374-1389, 2013 (SCI-Expanded)
- XVII. **Information permeability for stereo matching**
Cigla C., Alatan A. A.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.28, pp.1072-1088, 2013 (SCI-Expanded)
- XVIII. **3-D Rigid Body Tracking Using Vision and Depth Sensors**
Gedik O. S., Alatan A. A.
IEEE TRANSACTIONS ON CYBERNETICS, vol.43, pp.1395-1405, 2013 (SCI-Expanded)

- XIX. **Introduction to the Issue on Emerging Techniques in 3-D**
Alatan A. A., Ostermann J., ONURAL L., AlRegib G., Mattocchia S., Yuan C.
IEEE JOURNAL OF SELECTED TOPICS IN SIGNAL PROCESSING, vol.6, no.5, pp.409-410, 2012 (SCI-Expanded)
- XX. **Dominant sets based movie scene detection**
SAKARYA U., Telatar Z., ALATAN A. A.
SIGNAL PROCESSING, vol.92, no.1, pp.107-119, 2012 (SCI-Expanded)
- XXI. **Comparison of Forbidden Zone Data Hiding and Quantization Index Modulation**
Esen E., Alatan A. A.
DIGITAL SIGNAL PROCESSING, vol.22, pp.181-189, 2012 (SCI-Expanded)
- XXII. **Robust Video Data Hiding Using Forbidden Zone Data Hiding and Selective Embedding**
Esen E., Alatan A. A.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol.21, pp.1130-1138, 2011 (SCI-Expanded)
- XXIII. **Joint Utilization of Appearance, Geometry and Chance for Scene Logo Retrieval**
Soysal M., ALATAN A. A.
COMPUTER JOURNAL, vol.54, no.7, pp.1221-1231, 2011 (SCI-Expanded)
- XXIV. **Watermarking of Free-view Video**
Koz A., Cigla C., Alatan A. A.
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.19, pp.1785-1797, 2010 (SCI-Expanded)
- XXV. **Rate-Distortion Efficient Piecewise Planar 3-D Scene Representation From 2-D Images**
Imre E., Alatan A. A., Gueduekbay U.
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.18, pp.483-494, 2009 (SCI-Expanded)
- XXVI. **Special issue on advances in three-dimensional television and video: Guest editorial**
Gudukbay U., Alatan A. A.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.24, pp.1-2, 2009 (SCI-Expanded)
- XXVII. **Error detection and concealment for video transmission using information hiding**
YILMAZ A., Alatan A. A.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.23, no.4, pp.298-312, 2008 (SCI-Expanded)
- XXVIII. **Oblivious spatio-temporal watermarking of digital video by exploiting the human visual system**
Koz A., Alatan A. A.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol.18, pp.326-337, 2008 (SCI-Expanded)
- XXIX. **Scene representation technologies for 3DTV - A survey**
Alatan A. A., Yemez Y., Gueduekbay U., Zabulis X., Mueller K., ERDEM C. E., WEIGEL C., SMOLIC A.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol.17, no.11, pp.1587-1605, 2007 (SCI-Expanded)
- XXX. **3-d time-varying scene capture technologies - A survey**
STOYKOVA E., Alatan A. A., BENZIE P., GRAMMALIDIS N., MALASSIOTIS S., OSTERMANN J., PIEKH S., Sainov V., THEOBALT C., THEVAR T., et al.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol.17, no.11, pp.1568-1586, 2007 (SCI-Expanded)
- XXXI. **Towards 3-D scene reconstruction from broadcast video**
Imre E., KNORR S., ÖZKALAYCI B., TOPAY U., Alatan A. A., SIKORA T.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.22, no.2, pp.108-126, 2007 (SCI-Expanded)
- XXXII. **Fast Outlier rejection by using parallax-based rigidity constraint for epipolar geometry estimation**
Tola E., Alatan A. A.
MULTIMEDIA CONTENT REPRESENTATION, CLASSIFICATION AND SECURITY, vol.4105, pp.578-585, 2006 (SCI-Expanded)
- XXXIII. **Recognizing events in an automated surveillance system**
Orten B., Alatan A. A., Ciloglu T.
MULTIMEDIA CONTENT REPRESENTATION, CLASSIFICATION AND SECURITY, vol.4105, pp.434-441, 2006 (SCI-

- Expanded)
- XXXIV. **Combining MPEG-7 based visual experts for reaching semantics**
Soysal M., Alatan A.
VISUAL CONTENT PROCESSING AND REPRESENTATION, PROCEEDINGS, vol.2849, pp.66-75, 2003 (SCI-Expanded)
- XXXV. **Summarizing video: Content, features, and HMM topologies**
Yasaroglu Y., Alatan A.
VISUAL CONTENT PROCESSING AND REPRESENTATION, PROCEEDINGS, vol.2849, pp.101-110, 2003 (SCI-Expanded)
- XXXVI. **Robot mimicking: A visual approach for human machine interaction**
Uskarci A., Alatan A., Dindaroglu M., Ersak A.
COMPUTER AND INFORMATION SCIENCES - ISCIS 2003, vol.2869, pp.474-481, 2003 (SCI-Expanded)
- XXXVII. **Multi-modal dialog scene detection using hidden Markov models for content-based multimedia indexing**
Alatan A. A., AKANSU A. N., WOLF W.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.14, no.2, pp.137-151, 2001 (SCI-Expanded)
- XXXVIII. **Unequal error protection of SPIHT encoded image bit streams**
Alatan A. A., ZHAO M. Y., AKANSU A. N.
IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, vol.18, no.6, pp.814-818, 2000 (SCI-Expanded)
- XXXIX. **Image sequence analysis for emerging interactive multimedia services - The European COST 211 framework**
Alatan A. A., ONURAL L., WOLLBORN M., MECH R., TUNCEL E., Sikora T.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol.8, no.7, pp.802-813, 1998 (SCI-Expanded)
- XL. **Estimation of depth fields suitable for video compression based on 3-D structure and motion of objects**
Alatan A. A., Onural L.
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.7, no.6, pp.904-908, 1998 (SCI-Expanded)
- XLI. **3-D motion estimation of rigid objects for video coding applications using an improved iterative version of the E-matrix method**
Alatan A. A., Onural L.
IEEE SIGNAL PROCESSING LETTERS, vol.5, no.2, pp.36-38, 1998 (SCI-Expanded)

Books & Book Chapters

- I. **3D Watermarking: Techniques and Directions**
KOZ A., Triantafyllidis G., ALATAN A. A.
in: Three-Dimensional Television, Ozaktas H.M., Onural L., Editor, Springer, Berlin, pp.427-470, 2020
- II. **Next Generation Frame Rate Conversion Algorithms**
Gedik O. S., Türetken E., Alatan A. A.
in: High-Quality Visual Experience, M. Mrak, M. Grgic, M. Kunt, Editor, Springer, London/Berlin, London, pp.219-244, 2010
- III. **Video Adaptation Based on Content Characteristics and Hardware Capabilities**
Önür Ö. D., Alatan A. A.
in: Advances in Semantic Media Adaptation and Personalization, Volume 2, Angelides Marios C, Mylonas Phivos, Wallace Manolis, Editor, CRC, New York, New York, pp.67-95, 2009
- IV. **Gibbs Model Based 3D Motion and Structure Estimation for Object-Based Video Coding Applications**
Alatan A. A., Onural L.
in: Video Data Compression for Multimedia Computing, Statistically Based and Biologically Inspired Techniques, Li Hua Harry, Sun Shan Sun, Derin Haluk, Editor, Springer, London/Berlin, New York, pp.355-393, 1997

Refereed Congress / Symposium Publications in Proceedings

- I. **BI-DIRECTIONAL TRACKLET EMBEDDING FOR MULTI-OBJECT TRACKING**
BİLGİ H. Ç., ALATAN A. A.
IEEE International Conference on Image Processing, Abu Dhabi, United Arab Emirates, 17 October 2024
- II. **Causal Transformer for Fusion and Pose Estimation in Deep Visual Inertial Odometry**
Akman A., ALATAN A. A., KURT Y. B.
ECCV 2024 Workshop on Vision-Centric Autonomous Driving (VCAD), Milan, Italy, 30 September 2024
- III. **IG-SLAM: Instant Gaussian SLAM**
Sarıkamış F. A., ALATAN A. A.
ECCV 2024 Workshop on Dense Neural SLAM (NeuSLAM), Milan, Italy, 29 September 2024
- IV. **XoFTR: Cross-modal Feature Matching Transformer**
Tuzcuoğlu Ö., Köksal A., Sofu B., Kalkan S., Alatan A. A.
Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition, Washington, United States Of America, 17 - 21 June 2024, pp.4275-4286
- V. **Deep Metric Learning with Chance Constraints**
GÜRBÜZ Y. Z., ALATAN A. A., CAN O.
Winter Conference on Applications of Computer Vision, Waikoloa, Hawaii, United States Of America, 4 - 08 January 2024
- VI. **Knowledge Distillation Layer that Lets the Student Decide**
GÖRGÜN A., GÜRBÜZ Y. Z., ALATAN A. A.
British Machine Vision Conference (BMVC) 2023, Aberdeen, England, 20 November 2023
- VII. **GENERALIZABLE EMBEDDINGS WITH CROSS-BATCH METRIC LEARNING**
GÜRBÜZ Y. Z., ALATAN A. A.
IEEE International Conference on Image Processing, Kuala-Lumpur, Malaysia, 08 October 2023
- VIII. **Generalized Sum Pooling for Metric Learning**
GÜRBÜZ Y. Z., ŞENER O., ALATAN A. A.
IEEE/CVF International Conference on Computer Vision (ICCV), Paris, France, 02 October 2023, pp.5462-5473
- IX. **E-VFIA: Event-Based Video Frame Interpolation with Attention**
Kiliç O. S., Akman A., Alatan A. A.
2023 IEEE International Conference on Robotics and Automation, ICRA 2023, London, England, 29 May - 02 June 2023, vol.2023-May, pp.8284-8290
- X. **Improved Hard Example Mining Approach for Single Shot Object Detectors**
Köksal A., Tuzcuoğlu Ö., Ince K. G., Ataseven Y., Alatan A. A.
2022 IEEE International Conference on Image Processing (ICIP), Bordeaux, France, 16 October 2022
- XI. **Object Detection for Autonomous Driving: High-Dynamic Range vs. Low-Dynamic Range Images**
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CXVIII. Content based video copy detection with local descriptors Yerel tanımlayıcılar ile içerik tabanlı video kopya sezimi

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CXXIII. Rotation, scale and translation invariant automatic target recognition based on Fourier-Mellin transform and bispectrum for satellite imagery Uydu görüntüleri için Fourier-Mellin dönüşümü ve bispektrum tabanlı dönme, ölçekleme, öteleme değişmezlikli otomatik hedef tanıma

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- CLXXIX. **Video adaptation for transmission channels by utility modeling**
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- CLXXX. **Data hiding using trellis coded quantization**
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- CLXXXIV. **Error concealment of video sequences by data hiding**
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- CXCIII. Robust signal compression using joint fixed- and variable-length coding**
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Supported Projects

2022 - 2024	INTEGRATION OF IMAGE PROCESS ALGORITHMS INTO NAVIGATION APPLICATIONS PROJECT, Project Supported by Defense Industry
2022 - 2023	On-Board Image Processing Phase II, Project Supported by Private Organizations in Other Countries
2021 - 2023	Yenilikçi Yazılımlar Yarışıyor (Y3) 3. Dönem Gezingecik Projesi, Project Supported by Defense Industry
2020 - 2023	ASSUREDNAV, Project Supported by Defense Industry
2020 - 2022	H3DR Camera: Smart embedded camera with multi-exposure & multi-view capability for autonomous vehicles, TÜBİTAK International Bilateral Joint Cooperation Program Project
2015 - 2022	Uydu Görüntülerinin Otomatik Analizi ile Afet Hasar Tespiti ve Kanunsuz Sınır Geçişlerinin Önlenmesi, Project Supported by Higher Education Institutions
2021 - 2021	Geniş Alan Gözetleme Sistemi Performans Geliştirme ve 7 24 Termal Görüntü Alımı, Project Supported by Other Private Institutions
2021 - 2021	Bilişsel Kamera-2, Project Supported by Defense Industry
2020 - 2021	MİNİMİKRO İNSANSIZ HAVA ARACI TESPİT ALGORİTMASI (Faz-3), Project Supported by Other Private Institutions
2020 - 2021	OBImPro On-Board Image Processing System (Phase1), Project Supported by Private Organizations in Other Countries
2020 - 2021	H3DR Camera, Civil Society Organizations of Other Countries Supported Project
2019 - 2021	Y3 (Yenilikçi Yazılımlar Yarışıyor) 2020, Project Supported by Defense Industry
2019 - 2021	AKILLI MÜHİMMATLAR İÇİN GÖRSEL ANALİZ PROJESİ, Project Supported by Defense Industry
2020 - 2020	Video Hedef Tespit Algoritması Geliştirmesi, Project Supported by Defense Industry
2020 - 2020	MİNİ MİKRO İNSANSIZ HAVA ARACI TESPİT ALGORİTMASI GELİŞTİRME (Faz2), Project Supported by Defense Industry
2020 - 2020	Radar İşaretleri Tespit Parametre Ölçümü (Uzatma), Project Supported by Defense Industry
2020 - 2020	Geniş Alan Gözetleme Sistemi Performans Geliştirme ve 7 24 Termal Görüntü Alımı, Project Supported by Other Private Institutions
2020 - 2020	Kameralli Trafik Durumu Duyargası, Project Supported by Other Private Institutions
2019 - 2020	GÖRÜNTÜ İŞLEME İLE KAÇAK KULLANIM TESPİT VE TÜKETİM TAHMİN SİSTEMİ, Company
2019 - 2019	Video Hedef Tespit Algoritması Geliştirmesi, Project Supported by Defense Industry
2018 - 2019	Yenilikçi Yazılımlar Yarışıyor (Y3) ArGe Projesi, Project Supported by Defense Industry
2018 - 2019	Kent Güvenlik Yönetim Sistemleri için Bilişsel Kamera Geliştirilmesi Projesi , Project Supported by Defense Industry
2016 - 2019	Radar İşaretleri TespitParametre Ölçümü, Project Supported by Defense Industry
2017 - 2018	Hiperspektral Kimyasal Madde Görüntüleme ve Otomatik Tespit Projesi, Project Supported by Other Private Institutions
2017 - 2017	GAG Eyleme Dönük Mekansal İstihbarat, Project Supported by Other Private Institutions
2016 - 2017	HİPERSPEKTRAL KİMYASAL MADDE GÖRÜNTÜLEME VE OTOMATİK TESPİT PROJESİ, Project Supported by Other Private Institutions
2016 - 2017	HİPERSPEKTRAL KİMYASAL MADDE GÖRÜNTÜLEME VE OTOMATİK TESPİT PROJESİ, Project Supported by Other Private Institutions
2016 - 2017	Derin Öğrenme Tabanlı Görüntü Analizi Algoritmaları Geliştirme Projesi, Project Supported by Other Private Institutions
2016 - 2016	İGT TUYGUN PROJESİ ALGORİTMA GELİŞTİRME FAALİYETLERİ HİZMETİ, Project Supported by Other Private Institutions
2015 - 2016	GENİŞ ALAN HAVADAN GÖZETLEME STABİLİZE EO IR KAMERA SİSTEMİ, Project Supported by Other Private Institutions
2015 - 2016	DERİN ÖĞRENME TABANLI GÖRÜNTÜ ANALİZİ ALGORİTMALARI GELİŞTİRME PROJESİ FAZ 1, Project Supported by Other Private Institutions

2014 - 2016	YENİ NESİL ÖĞRENME ALGORİTMALARI İLE OTOMATİK VİDEO HAREKET SINIFLANDIRMA SİSTEMİ, Project Supported by Other Private Institutions
2014 - 2015	İGT TUYGUN HİPERSPEKTRAL GÖRÜNTÜ ANALİZİ VE HEDEF TESPİTİ AR GE FAALİYETLERİ PROJESİ, Project Supported by Other Private Institutions
2005 - 2009	KARİYER: Video Görsel Artıklıklarını Kullanarak Gürbüz 3-B Sahne Geri Çatımı, TUBITAK Project

Patent

2024	Nesne Algılama Yöntemi, Patent, CHAPTER H Electricity, The Invention Registration Number: 2021 021550 , Standard Registration, 2024
2024	Method and Apparatus for Frame Interpolation, Patent, CHAPTER H Electricity, The Invention Registration Number: EP2214137 , Standard Registration, 2024
2024	Derin öznitelik eşleştirme yöntemi., Patent, CHAPTER H Electricity, The Invention Registration Number: 2021 009617 , Standard Registration, 2024
2022	Korelasyon Filtresi Tabanlı Görsel Takip için bir Yöntem, Patent, CHAPTER H Electricity, The Invention Registration Number: 2019 17539 , Standard Registration, 2022
2022	A High Performance Object Detection System using HDR Images Obtained from LDR Cameras in Autonomous Vehicles, Patent, CHAPTER H Electricity, The Invention Recourse Number: PCT/TR2022/051657 , Standard Registration, 2022
2021	Method for Correlation based Visual Tracking, Patent, CHAPTER H Electricity, Standard Registration, 2021
2020	Hatipoğlu U. P., Alatan A. A., Albayrak R. T., An Object Detection Method, Patent, CHAPTER H Electricity, The Invention Recourse Number: PCT/TR2020/051025 , Standard Registration, 2020
2020	Bir hedef tanımlama yöntemi, Patent, CHAPTER H Electricity, The Invention Registration Number: 201607090 , Standard Registration, 2020
2017	ALATAN A. A., Information permeability based disparity estimation in stereo video, Patent, CHAPTER H Electricity, Standard Registration, 2017
2017	ALATAN A. A., Bir dönmeye bağışık hedef takip sistemi, Patent, CHAPTER G Physics, Standard Registration, 2017
2017	ALATAN A. A., Method and apparatus for the detection and classification of occlusion regions, Patent, CHAPTER H Electricity, Standard Registration, 2017
2015	ALATAN A. A., Method for Estimating motion vectors for frame interpolation, Patent, CHAPTER H Electricity, Standard Registration, 2015
2002	Alatan A. A., Rule-based moving object segmentation, Patent, CHAPTER H Electricity, The Invention Registration Number: US6337917 , Standard Registration, 2002

Contractual Researches

2010 - Continues	RTUK-KAVTAN
2018 - 2018	HAVELSAN A.Ş.
2017 - 2018	HAVELSAN A.Ş. ARGE PROJESİ
2017 - 2018	A SELSAN A.Ş. ARGE YENİLİK TASARIM PROJE
2015 - 2017	A SELSAN ARGE PROJE (3-Boyutlu Güvenlik Görüntüleme Radarı Projesi - Elektromanyetik Modelleme, Simulasyon ve Çözüm Yöntemleri Geliştirilmesi), Aselsan A.Ş.
2016 - 2016	ARGE YENİLİK PROJESİ
2016 - 2016	RHEİS ARGE YENİLİK TASARIM PROJE
2016 - 2016	Araştırma Merkezi Projesi (Yıl 2)
2016 - 2016	İGT TUYGUN PROJESİ (Ek)
2015 - 2016	A SELSAN A.Ş. PROJESİ
2015 - 2016	ESEN SİSTEM ENT. LTD. DANISMANLIK

2014 - 2015	HAVELSAN A.Ş. PROJESİ
2013 - 2013	A SELSAN A.Ş. PROJESİ
2012 - 2012	A SELSAN A.Ş. PROJESİ
2010 - 2010	TÜBİTAK UZAY DANIŞMANLIK
2009 - 2010	KAVTAN
2009 - 2010	A SELSAN A.Ş.
2009 - 2009	A SELSAN A.Ş.
2009 - 2009	TÜBİTAK-UZAY
2008 - 2009	A SELSAN

Activities in Scientific Journals

2014 - Continues	Ieee Transactions On Image Processing, Assistant Editor/Section Editor
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Memberships / Tasks in Scientific Organizations

2017 - Continues	Bilim Akademisi Derneği, Board Member
2014 - Continues	Bilim Akademisi Derneği, Member

Metrics

Publication: 247
Citation (WoS): 2230
Citation (Scopus): 3561
H-Index (WoS): 21
H-Index (Scopus): 25

Awards

September 2020	CVPR 2020 Anti-UAV Workshop & Challenge Best Paper Award, Computer Vision Foundation (Cvf) Cvpr Workshop
June 2017	Visual Object Tracking 2017 Winning Tracker, Slovenia