

Prof. ABDULLAH AYDIN ALATAN

Personal Information

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Biography

A. Aydin 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 of Center for Image Analysis (OGAM).

His research interests are content-based video analysis, data hiding, robust image/video transmission over mobile channels and packet networks, image/video compression, video segmentation and 3-D scene analysis.

Education Information

Doctorate, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), Turkey 2002 - 2007

Post Graduate, Imperial College Of Science, Technology And Medicine, Elektrik Ve Elektronik Mühendisliği, United Kingdom 2001 - 2002

Under Graduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1986 - 1990

Foreign Languages

English, C1 Advanced

Research Areas

Computer Sciences, 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, Elektrik-Elektronik Mühendisliği Bölümü, 2010 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2004 - 2010
Assistant Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2000 - 2004
Lecturer PhD, New Jersey Institute Of Technology, 1998 - 2000
Lecturer PhD, Rensselaer Polytechnic Institute, 1997 - 1998
Research Assistant, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1993 - 1997

Professional Experience

Director of the Center, Middle East Technical University, Ogam, 2014 - Continues
Deputy Head of Department, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2008 - 2013

Advising Theses

ALATAN A. A. , Visual object tracking using semi supervised convolutional filters, Post Graduate, E.Can(Student), 2020
ALATAN A. A. , Metric learning using deep recurrent networks for visual clustering and retrieval, Post Graduate, O.CAN(Student), 2018
ALATAN A. A. , Visual object detection and tracking using local convolutional context features and recurrent neural networks, Post Graduate, E.CAN(Student), 2018
ALATAN A. A. , Geospatial object recognition using deep networks for satellite images, Post Graduate, O.BARUT(Student), 2018
ALATAN A. A. , Hiperspektral görüntüler için süperpiksel tabanlı hedef tespit yöntemleri, Post Graduate, M.KÜTÜK(Student), 2018
ALATAN A. A. , Good features to correlate for visual tracking, Doctorate, E.GÜNDOĞDU(Student), 2017
ALATAN A. A. , Superpixel based image sequence representation and motion estimation, Doctorate, K.GÖKALP(Student), 2017
ALATAN A. A. , Stratified calibration and group synchronized focal length estimation for structure from motion algorithms, Post Graduate, A.ÇALIŞKAN(Student), 2017
VURAL E., ALATAN A. A. , Spectral graph based approach for analysis of 3D LIDAR point clouds, Post Graduate, E.BAYRAM(Student), 2017
ALATAN A. A. , Hierarchical representations for visual object tracking by detection, Post Graduate, B.BEŞBİNAR(Student), 2015
ALATAN A. A. , Robust content-based copy detection and information theoretic indexing strategies, Doctorate, A.SARACOĞLU(Student), 2015
ALATAN A. A. , Representing images and regions for object recognition, Post Graduate, İ.BUZCU(Student), 2015
ALATAN A. A. , Occlusion aware stereo matching with $O(1)$ complexity, Post Graduate, Y.ZİYA(Student), 2014
ALATAN A. A. , Occlusion aware stereo matching with $o(1)$ complexity / , Post Graduate, Y.Ziya(Student), 2014
ALATAN A. A. , Accurate 3D tracking using visual and depth data, Doctorate, O.SERDAR(Student), 2014
ALATAN A. A. , Saliency-based visual tracking using correlation filters for surveillance applications / , Post Graduate, E.TUNALI(Student), 2014
ALATAN A. A. , Planar 3D scene representations for depth compression, Doctorate, B.OĞUZ(Student), 2014
ALATAN A. A. , Deep convolutional neural networks with an application towards geospatial object recognition / , Post Graduate, E.BATI(Student), 2014
ALATAN A. A. , An efficient graph-theoretical approach for interactive mobile image and video segmentation, Post Graduate, O.ŞENER(Student), 2013
ALATAN A. A. , Superpixel based efficient image representation for segmentation and classification, Doctorate,

H.EMRAH(Student), 2013

ALATAN A. A. , Tracking by classification, Post Graduate, T.MARPUÇ(Student), 2013

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

ALATAN A. A. , Efficient inertially aided visual odometry towards mobile augmented reality, Post Graduate, Y.AKSOY(Student), 2013

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ALATAN A. A. , Dense depth map estimation for object segmentation in multi-view video, Post Graduate, C.ÇIĞLA(Student), 2007

ALATAN A. A. , Multi-camera video surveillance: Detection, occlusion handling, tracking and event recognition, Post

Graduate, O.AKMAN(Student), 2007

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

ALATAN A. A. , Multi-view video coding via dense depth field, Post Graduate, B.Öğuz(Student), 2006

ALATAN A. A. , Moving object identification and event recognition in video surveillance systems, Post Graduate, B.Birant(Student), 2005

ALATAN A. A. , Multiview 3d reconstruction of a scene containing independently moving objects, Post Graduate, E.Tola(Student), 2005

ALATAN A. A. , Automatic target recognition in infrared imagery, Post Graduate, T.Makbule(Student), 2004

ALATAN A. A. , Moving Object Detection in 2D and 3D Scenes, Post Graduate, S.Sirtkaya(Student), 2004

ALATAN A. A. , Image segmentation with Improved region modeling, Post Graduate, O.Ersoy(Student), 2004

ALATAN A. A. , Interest point matching across arbitrary views, Post Graduate, İ.Bayram(Student), 2004

ALATAN A. A. , Optimal video adaptation for resource constrained mobile devices based on utility theory, Post Graduate, Ö.Deniz(Student), 2003

ALATAN A. A. , Holistic face recognition by dimension reduction, Post Graduate, A.Bahtiyar(Student), 2003

ALATAN A. A. , Robust video transmission using data hiding, Post Graduate, A.Yılmaz(Student), 2003

ALATAN A. A. , Multi-modal video summarization using hidden Markov models for content-based multimedia indexing, Post Graduate, Y.Yaşaroğlu(Student), 2003

ALATAN A. A. , Combining image features for semantic descriptions, Post Graduate, M.Soysal(Student), 2003

ALATAN A. A. , Digital watermarking based on human visual system, Post Graduate, A.KOZ(Student), 2002

ALATAN A. A. , Face detection using learning networks., Post Graduate, F.BORAY(Student), 2002

ALATAN A. A. , Face detection using a mixture of subspaces., Post Graduate, E.TAŞLIDERE(Student), 2002

ALATAN A. A. , Detecting and recognizing text from video frames., Post Graduate, S.TEKİNALP(Student), 2002

ALATAN A. A. , Face recognition using Gabor wavelet transform, Post Graduate, B.KEPENEKÇİ(Student), 2001

Research Infrastructure Information

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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **Good Features to Correlate for Visual Tracking**
Gundogdu E., Alatan A. A.
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.27, pp.2526-2540, 2018 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)

- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **An efficient recursive edge-aware filter**
Cigla C., Alatan A. A.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.29, pp.998-1014, 2014 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **User assisted disparity remapping for stereo images**
Tasli H. E. , Alatan A. A.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.28, pp.1374-1389, 2013 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **Information permeability for stereo matching**
Cigla C., Alatan A. A.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.28, pp.1072-1088, 2013 (Journal Indexed in SCI)
- XVI. **Introduction to the Issue on Emerging Techniques in 3-D**
Alatan A. A. , Ostermann J., ONURAL L., AlRegib G., Mattoccia S., Yuan C.
IEEE JOURNAL OF SELECTED TOPICS IN SIGNAL PROCESSING, vol.6, no.5, pp.409-410, 2012 (Journal Indexed in SCI)
- XVII. **Comparison of Forbidden Zone Data Hiding and Quantization Index Modulation**
Esen E., Alatan A. A.
DIGITAL SIGNAL PROCESSING, vol.22, pp.181-189, 2012 (Journal Indexed in SCI)
- XVIII. **Dominant sets based movie scene detection**
SAKARYA U., Telatar Z., ALATAN A. A.
SIGNAL PROCESSING, vol.92, no.1, pp.107-119, 2012 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **Watermarking of Free-view Video**
Koz A., Cigla C., Alatan A. A.
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.19, pp.1785-1797, 2010 (Journal Indexed in SCI)
- XXII. **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 (Journal Indexed in SCI)

- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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 (Journal Indexed in SCI)
- XXVIII. **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 (Journal Indexed in SCI)
- XXIX. **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 (Journal Indexed in SCI)
- XXX. **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 (Journal Indexed in SCI)
- XXXI. **Summarizing video: Content, features, and HMM topologies**
Yasaroglu Y., Alatan A.
VISUAL CONTENT PROCESSING AND REPRESENTATION, PROCEEDINGS, vol.2849, pp.101-110, 2003 (Journal Indexed in SCI)
- XXXII. **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 (Journal Indexed in SCI)
- XXXIII. **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 (Journal Indexed in SCI)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **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 (Journal Indexed in SCI)
- XXXVI. **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
(Journal Indexed in SCI)

XXXVII. **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 (Journal Indexed in SCI)

XXXVIII. **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 (Journal Indexed in SCI)

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

Refereed Congress / Symposium Publications in Proceedings

I. **Late Temporal Modeling in 3D CNN Architectures with BERT for Action Recognition**

KALFAOĞLU M. E. , KALKAN S., ALATAN A. A.

ECCV Video Turing Test (VTT) Workshop, 28 August 2020

II. **Effect of Annotation Errors on Drone Detection with YOLOv3**

KÖKSAL A., İNCE K. G. , ALATAN A. A.

2020 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), Seattle, WA, USA, United States Of America, 14 - 19 June 2020

III. **Object detection under moving cloud shadows in WAMI**

HATİPOĞLU P., ALBAYRAK T., ALATAN A. A.

ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 1 - 06 June 2020, vol.22020, pp.837-844

IV. **Vision-Based Lighting State Detection and Curtain Openness Ratio Prediction**

Kalfaoğlu E., Gürsel Dino I., İşeri O. K. , Akın Ş., Sarı A. E. , Erdoğan B., Kalkan S., Alatan A. A.

The Symposium on Simulation for Architecture and Urban Design (SimAUD), Vienna, Austria, 23 - 25 May 2020

V. **Target Rediscovery on Long-wave Infrared Hyperspectral Images using Radiance and Emissivity Data**

Koz A., Belenoğlu İ., YÜKSEL S. E. , ALATAN A. A.

SET-277 Workshop on Phenomenology and Exploitation of Hyperspectral Sensing within NATO, Brüksel, Belgium, 14 - 15 October 2019

VI. **Single Image Noise Level Estimation Using Dark Channel Prior**

Yeşilyurt A. B. , EROL A., KAMIŞLI F., ALATAN A. A.

2019 IEEE International Conference on Image Processing (ICIP), Taipei, Taiwan, 22 - 25 September 2019

VII. **Video Content Analysis-Based Detection of Occupant Presence for Building Energy Modelling**

Gürsel Dino I., Kalfaoğlu E., Sarı A. E. , Akın Ş., İşeri O. K. , Alatan A. A. , Kalkan S., Erdoğan B.

CIB W78: Conference: Advances in ICT in Design, Construction and Management in Architecture, Engineering, Construction and Operations (AECO), Newcastle-Upon-Tyne, United Kingdom, 18 - 20 September 2019

VIII. **Automated building energy modeling for existing buildings using computer vision**

Gürsel Dino I., Sarı A. E. , Kalfaoğlu E., Akın Ş., İşeri O. K. , Kalkan S., Alatan A. A. , Erdoğan B.

CIB W78: Conference: Advances in ICT in Design, Construction and Management in Architecture, Engineering,

Construction and Operations (AECO), Newcastle-Upon-Tyne, United Kingdom, 18 - 20 September 2019

- IX. Hyperspectral Target Detection by Using Superpixels and Signature based Methods**
Kütük M., Koz A., Alatan A. A.
2018 9th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS), Amsterdam, Netherlands, 23 - 26 September 2018, pp.1-5
- X. Antenna Scan Period Estimation of Radars with Cepstrum and Scoring**
Kalfaoglu M. E. , Can O., Yildirim B., ALATAN A. A.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- XI. Geospatial Object Detection Using Deep Networks**
Barut O., Alatan A. A.
Conference on Earth Observing Systems XXIV, California, United States Of America, 11 - 15 August 2019, vol.11127
- XII. A NOVEL BOVW MIMICKING END-TO-END TRAINABLE CNN CLASSIFICATION FRAMEWORK USING OPTIMAL TRANSPORT THEORY**
GÜRBÜZ Y. Z. , Alatan A. A.
26th IEEE International Conference on Image Processing (ICIP), Taipei, Taiwan, 22 - 25 September 2019, pp.3053-3057
- XIII. QUADRUPLET SELECTION METHODS FOR DEEP EMBEDDING LEARNING**
Karaman K., Gundogdu E., Koc A., ALATAN A. A.
26th IEEE International Conference on Image Processing (ICIP), Taipei, Taiwan, 22 - 25 September 2019, pp.3452-3456
- XIV. The sixth visual object tracking VOT2018 challenge results**
Kristan M., Leonardis A., Matas J., Felsberg M., Pflugfelder R., Zajc L. Č. , Vojří T., Bhat G., Lukežič A., Eldesokey A., et al.
15th European Conference on Computer Vision, ECCV 2018, Munich, Germany, 8 - 14 September 2018, pp.3-53
- XV. IMPROVING PROPOSAL-BASED OBJECT DETECTION USING CONVOLUTIONAL CONTEXT FEATURES**
Kaya E. C. , ALATAN A. A.
25th IEEE International Conference on Image Processing (ICIP), Athens, Greece, 7 - 10 October 2018, pp.1308-1312
- XVI. OBJECT LOCALIZATION WITHOUT BOUNDING BOX INFORMATION USING GENERATIVE ADVERSARIAL REINFORCEMENT LEARNING**
Halici E., ALATAN A. A.
25th IEEE International Conference on Image Processing (ICIP), Athens, Greece, 7 - 10 October 2018, pp.3728-3732
- XVII. CHANGE DETECTION FOR HYPERSPECTRAL IMAGES USING EXTENDED MUTUAL INFORMATION AND OVERSEGMENTATION**
TASKESEN B., KOZ A., Weatherbee O., ALATAN A. A.
Whispers 2018, Amsterdam, Netherlands, 23 - 26 September 2018
- XVIII. HYPERSPECTRAL TARGET DETECTION BY USING SUPERPIXELS AND SIGNATURE BASED METHODS**
Kütük M., Koz A., ALATAN A. A.
Whispers Conference, Amsterdam, Netherlands, 23 - 26 September 2018
- XIX. Face Recognition Based on Embedding Learning**
Karaman K., Koc A., ALATAN A. A.
Conference on Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies II, Berlin, Germany, 10 - 11 September 2018, vol.10802
- XX. Extended Object Tracking and Shape Classification**
Tuncer B., Kumru M., Alatan A. A. , Özkan E.
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- XXI. Object localization with reinforcement learning Pekiştirmeli öğrenme ile nesne yeri saptama**
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