

Prof. İLKAY ULUSOY

Personal Information

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Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Elektrik-Elektronik Mühendisliği (Dr), Turkey 1997 - 2003

Postgraduate, The Ohio State University, Biyomedikal Mühendisliği, United States Of America 1994 - 1996

Undergraduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1990 - 1994

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, ACTIVE STEREO VISION: DEPTH PERCEPTION FOR NAVIGATION, ENVIRONMENTAL MAP FORMATION AND OBJECT RECOGNITION, Middle East Technical University, Faculty of Engineering, Elektrik Ve Elektronik Mühendisliği, 2003

Postgraduate, ARM MOVEMENT CONTROL BY NEURAL NETWORKS, Ohio State University, Biomedical Engineering, Biomedical Engineering, 1996

Research Areas

Electrical and Electronics Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Elektrik Elektronik, 2017 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Elektrik Elektronik, 2012 - 2017

Assistant Professor, Middle East Technical University, Faculty of Engineering, Elektrik Elektronik, 2005 - 2012

Academic and Administrative Experience

Head of Department, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 2019 - Continues

Middle East Technical University, 2015 - Continues

Middle East Technical University, 2016 - 2018

Middle East Technical University, Institute of Applied Mathematics, 2007 - 2012

Advising Theses

- ULUSOY İ., POTHOLE DETECTION IN ASPHALT IMAGES USING CONVOLUTIONAL NEURAL NETWORKS, Postgraduate, H.ATEŞ(Student), 2019
- ULUSOY İ., Surface Vessel Tracking in Airborne Infrared Imagery, Postgraduate, A.ÇAKIROĞLU(Student), 2019
- ULUSOY İ., A HIGH THROUGHPUT FPGA IMPLEMENTATION OF MARKOV CHAIN MONTE CARLO METHOD FOR MIXTURE MODELS, Postgraduate, C.BOZGAN(Student), 2019
- ULUSOY İ., Blood pressure trend estimation from EKG and multiple PPG data, Postgraduate, A.Emre(Student), 2019
- BATMAZ İ., ULUSOY İ., Comparison of computational image inpainting methods, Postgraduate, C.KURT(Student), 2018
- Leloğlu U. M. , Ulusoy İ., SIMILARITY RATIO BASED ALGORITHMS TO GENERATE SAR SUPERPIXELS, Doctorate, E.AKYILMAZ(Student), 2017
- ULUSOY İ., Graph theory analyses on connectivity maps obtained by partial directed coherence using EEG data of dyslexic and healthy children, Postgraduate, E.CAN(Student), 2017
- ULUSOY İ., Basic thresholding classification, Doctorate, M.ALTAN(Student), 2016
- ULUSOY İ., Investigation of the brain connectivity disturbance in Dyslexic patients, Postgraduate, V.Rasoulzadeh(Student), 2016
- TARI Z. S. , ULUSOY İ., Object recognition and segmentation via shape models, Doctorate, M.BURAK(Student), 2016
- ULUSOY İ., Automatic small target detection in infrared images of various backgrounds from various distances, Postgraduate, O.YARDIMCI(Student), 2015
- ULUSOY İ., Map merging for multi robot SLAM / , Postgraduate, O.KARADENİZ(Student), 2014
- ULUSOY İ., Drowsy driver detection using image processing, Postgraduate, A.GİRİT(Student), 2014
- ULUSOY İ., An Analysis of 3D surface curvature features for 3D SLAM using Kinect data / , Postgraduate, Ö.Faruk(Student), 2014
- ULUSOY İ., An analysis of 3D surface curvature features for 3D SLAM using kinect data, Postgraduate, Ö.FARUK(Student), 2014
- TEMİZEL A., ULUSOY İ., Anomaly detection for video surveillance in crowded environments / , Postgraduate, C.ÖNGÜN(Student), 2014
- ULUSOY İ., Performance comparison of point and plane features for SLAM / , Postgraduate, M.YÖRÜK(Student), 2014
- ULUSOY İ., Road extraction from satellite images by self supervised classification and perceptual grouping, Postgraduate, E.ŞAHİN(Student), 2013
- ULUSOY İ., Classifier fusion methods adapted to template matching on satellite images, Postgraduate, A.ERSÖZ(Student), 2013
- ULUSOY İ., Automatic multi-scale-segmentation of high spatial resolution satellite images using watersheds, Postgraduate, K.ŞAHİN(Student), 2013
- ULUSOY İ., Human action recognition for mobile robots, Postgraduate, U.BAYRAM(Student), 2013
- ULUSOY İ., Comparison of histograms of oriented optical flow based action recognition methods, Postgraduate, F.ERCİŞ(Student), 2012
- ULUSOY İ., Human activity classification using spatio-temporal feature relations, Postgraduate, K.AKPINAR(Student), 2012
- ULUSOY İ., An implementation of 3D SLAM with planar segments, Postgraduate, Ç.TURUNÇ(Student), 2012
- ULUSOY İ., FPGA implementation of real time digital video stabilization, Postgraduate, İ.ÖZSARAÇ(Student), 2011
- ULUSOY İ., An algorithm for multiscale license plate detection and rule-based character segmentation, Postgraduate, A.ONUR(Student), 2011
- ULUSOY İ., Facial soft tissue segmentation in mri using unlabeled, Postgraduate, Y.Rezaeitabar(Student), 2011
- ULUSOY İ., Facial soft tissue segmentation in MRI using unlabeled atlas, Postgraduate, Y.REZAEİTABAR(Student), 2011
- ULUSOY İ., 3D object recognition using scale space of curvatures, Doctorate, E.AKAGÜNDÜZ(Student), 2011
- ULUSOY İ., Detecting and tracking moving objects with an active camera in real time, Postgraduate, S.KARAKAŞ(Student), 2011
- ÜNVER B. Z. , ULUSOY İ., FPGA implementation of graph cut method for real time stereo matching, Postgraduate, H.Sağlık(Student), 2010
- ULUSOY İ., Online and semi-automatic annotation of faces in personal videos, Postgraduate, M.CELELEDDİN(Student),

2010

- ULUSOY İ., Real time 3d surface feature extraction on fpga, Postgraduate, Z.Haşim(Student), 2010
- ULUSOY İ., Morphable 3D facial animation based on thin plate splines, Postgraduate, A.Erdoğan(Student), 2010
- ULUSOY İ., 3d geometric hashing using transform invariant features, Postgraduate, Ö.Eskizara(Student), 2009
- ULUSOY İ., 3d object recognition by geometric hashing for robotics applications, Postgraduate, A.Hozatlı(Student), 2009
- ULUSOY İ., Selection and fusion of multiple stereo algorithms for accurate disparity segmentation, Postgraduate, A.Bilgin(Student), 2008
- ULUSOY İ., Comparison of 3d facial anchor point localization methods, Postgraduate, M.Yağcıoğlu(Student), 2008
- ULUSOY İ., A comparative study on polygonal mesh simplification algorithms, Postgraduate, M.Yirci(Student), 2008
- ULUSOY İ., An implementation of mono and stereo slam system utilizing efficient map management strategy, Postgraduate, A.Kalay(Student), 2008
- ULUSOY İ., Blur estimation and superresolution from multiple registered images, Postgraduate, E.Utku(Student), 2008
- ULUSOY İ., Object detection from registered visual and infrared sequences with the help of active contours, Postgraduate, H.YÜRÜK(Student), 2008
- ULUSOY İ., 3d reconstruction of underwater scenes from uncalibrated video sequences, Postgraduate, M.Yavuz(Student), 2008

Jury Memberships

- Appointment Academic Staff, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, December, 2020
- Appointment Academic Staff, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, December, 2020
- Appointment Academic Staff, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, December, 2020
- Appointment Academic Staff, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, October, 2020
- Appointment Academic Staff, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, October, 2020
- Appointment Academic Staff, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, July, 2020

Designed Lessons

- Ulusoy İ., MACHINE LEARNING BY PROBABILISTIC MODELS, Postgraduate, 2010 - 2011

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

- I. **A practical analysis of sample complexity for structure learning of discrete dynamic Bayesian networks**
Geduk S., ULUSOY İ.
OPTIMIZATION, 2021 (Journal Indexed in SCI)
- II. **KCl-induced cortical spreading depression waves more heterogeneously propagate than optogenetically-induced waves in lissencephalic brain: an analysis with optical flow tools**
Donmez-Demir B., ERDENER Ş. E. , KARATAŞ KURŞUN H., Kaya Z., ULUSOY İ., DALKARA T.
SCIENTIFIC REPORTS, vol.10, no.1, 2020 (Journal Indexed in SCI)
- III. **A comparative stationarity analysis of EEG signals**
RASOULZADEH V., ERKUŞ E. C. , YOĞURT T. A. , ULUSOY İ., Zergeroğlu S. A.
ANNALS OF OPERATIONS RESEARCH, vol.258, no.1, pp.133-157, 2017 (Journal Indexed in SCI)
- IV. **Hyperspectral Image Classification via Kernel Basic Thresholding Classifier**
TOKSÖZ M. A. , ULUSOY İ.
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol.55, no.2, pp.715-728, 2017 (Journal Indexed in SCI)
- V. **A probabilistic sparse skeleton based object detection**

Altinoklu B., ULUSOY İ., Tari S.

Pattern Recognition Letters, vol.83, pp.243-250, 2016 (Journal Indexed in SCI Expanded)

- VI. **Classification via ensembles of basic thresholding classifiers**
TOKSÖZ M. A. , ULUSOY İ.
IET COMPUTER VISION, vol.10, no.5, pp.433-442, 2016 (Journal Indexed in SCI)
- VII. **Hyperspectral Image Classification via Basic Thresholding Classifier**
Toksoz M. A. , ULUSOY İ.
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol.54, no.7, pp.4039-4051, 2016 (Journal Indexed in SCI)
- VIII. **Railway Fastener Inspection by Real-Time Machine Vision**
Aytekin C., REZAEITABAR Y., Dogru S., ULUSOY İ.
IEEE TRANSACTIONS ON SYSTEMS MAN CYBERNETICS-SYSTEMS, vol.45, no.7, pp.1101-1107, 2015 (Journal Indexed in SCI)
- IX. **Anatomical and Dynamic Volume Spline Model Applied to Facial Soft Tissue**
ULUSOY PARNAS İ., AKAGÜNDÜZ e., YIRCI m.
Computer Animation And Virtual Worlds, 2014 (Journal Indexed in SCI)
- X. **Online annotation of faces in personal videos by sequential learning**
Yilmazturk M. C. , ULUSOY İ., ÇİÇEKLİ F. N.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.63, no.3, pp.591-613, 2013 (Journal Indexed in SCI)
- XI. **Local Primitive Pattern for the Classification of SAR Images**
AYTEKİN o., KOÇ m., ULUSOY PARNAS İ.
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol.51, no.4, pp.2431-2441, 2013 (Journal Indexed in SCI)
- XII. **The Effect of Labeled Unlabeled Prior Information for Masseter Segmentation**
ULUSOY PARNAS İ., REZAEITABAR y.
Mathematical Problems In Engineering, 2013 (Journal Indexed in SCI)
- XIII. **The Effect of Labeled/Unlabeled Prior Information for Masseter Segmentation**
Tabar Y. R. , ULUSOY İ.
MATHEMATICAL PROBLEMS IN ENGINEERING, 2013 (Journal Indexed in SCI)
- XIV. **Automatic 3D segmentation of individual facial muscles using unlabeled prior information**
Rezaeitabar Y., ULUSOY İ.
INTERNATIONAL JOURNAL OF COMPUTER ASSISTED RADIOLOGY AND SURGERY, vol.7, no.1, pp.35-41, 2012 (Journal Indexed in SCI)
- XV. **Unsupervised building detection in complex urban environments from multispectral satellite imagery**
AYTEKİN O., Erener A., ULUSOY İ., Duzgun S.
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.33, no.7, pp.2152-2177, 2012 (Journal Indexed in SCI)
- XVI. **Automatic segmentation of VHR images using type information of local structures acquired by mathematical morphology**
AYTEKİN o., ULUSOY PARNAS İ.
PATTERN RECOGNITION LETTERS, vol.32, no.13, pp.1618-1625, 2011 (Journal Indexed in SCI)
- XVII. **New method for the fusion of complementary information from infrared and visual images for object detection**
ULUSOY İ., Yuruk H.
IET IMAGE PROCESSING, vol.5, no.1, pp.36-48, 2011 (Journal Indexed in SCI)
- XVIII. **Use of the dynamic volume spline method to predict facial soft tissue changes associated with orthognathic surgery**
ULUSOY PARNAS İ., AKAGÜNDÜZ e., Sabuncuoglu F., GÖRGÜLÜ S., ÜÇOK C. Ö.
ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY AND ENDODONTOLOGY, vol.110, no.5, 2010 (Journal Indexed in SCI)
- XIX. **3D object recognition from range images using transform invariant object representation**

- AKAGÜNDÜZ e., ULUSOY PARNAS İ.
ELECTRONICS LETTERS, vol.46, no.22, pp.1499-1500, 2010 (Journal Indexed in SCI)
- XX. **3D face detection using transform invariant features**
AKAGÜNDÜZ e., ULUSOY PARNAS İ.
ELECTRONICS LETTERS, vol.46, no.13, pp.905-906, 2010 (Journal Indexed in SCI)
- XXI. **Inverse solution for parameter estimation of a dynamic volume spline based forehead skin model**
ULUSOY PARNAS İ., AKAGÜNDÜZ e., WEBER G. W.
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, vol.18, no.5, pp.585-612, 2010 (Journal Indexed in SCI)
- XXII. **Estimation of parameters for dynamic volume spline models**
ULUSOY PARNAS İ., AKAGÜNDÜZ e., WEBER G. W.
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, vol.18, no.4, pp.499-519, 2010 (Journal Indexed in SCI)
- XXIII. **A statistical approach to sparse multi-scale phase-based stereo**
Ulusoy İ., Hancock E. R.
PATTERN RECOGNITION, vol.40, no.9, pp.2504-2520, 2007 (Journal Indexed in SCI)
- XXIV. **A generative model for multi class object recognition and detection**
Ulusoy I.
ARTIFICIAL INTELLIGENCE AND NEURAL NETWORKS, vol.3949, pp.32-40, 2006 (Journal Indexed in SCI)
- XXV. **The 2005 PASCAL visual object classes challenge**
Everingham M., Zisserman A., Williams C. K. I., Van Gool L., Allan M., Bishop C. M., Chapelle O., Dalal N., Deselaers T., Dorko G., et al.
MACHINE LEARNING CHALLENGES, vol.3944, pp.117-176, 2006 (Journal Indexed in SCI)
- XXVI. **Time-frequency analysis of visual evoked potentials for interhemispheric transfer time and proportion in callosal fibers of different diameters**
ULUSOY PARNAS İ., HALICI U., NALÇACI E., ANAÇ İ., LEBLEBİCİOĞLU M. K., EROĞLU c.
BIOLOGICAL CYBERNETICS, vol.90, no.4, pp.291-301, 2004 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **22nd International Symposium on Computer and Information Sciences, ISCIS 2007 - Proceedings: Preface**
Schmidt E. G., Ulusoy İ., Çiçekli N., Halici U., Atalay V.
22nd International Symposium on Computer and Information Sciences, ISCIS 2007 - Proceedings, 2007 (Refereed Journals of Other Institutions)
- II. **Comparison of generative and discriminative techniques for object detection and classification**
ULUSOY PARNAS İ., CHRIS b.
Toward Category-Level Object Recognition Volume 4170 of the series Lecture Notes in Computer Science, vol.4170, pp.173-195, 2006 (Refereed Journals of Other Institutions)
- III. **Object Recognition via Local Patch Labelling**
ULUSOY PARNAS İ., BISHOP c.
Deterministic and Statistical Methods in Machine Learning Volume 3635 of the series Lecture Notes in Computer Science, vol.3635, pp.1-21, 2005 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Meta Soft Label Generation for Noisy Labels**
Algan G., ULUSOY İ.
25th International Conference on Pattern Recognition (ICPR), ELECTR NETWORK, 10 - 15 January 2021, pp.7142-7148
- II. **Dyscalculia Disease Signature Obtained Using Effective Connectivity Modeled by DBN**

GEDUK S., ULUSOY İ., ÜSTÜN S., AYYILDIZ N., URAN P., ÖNER Ö., OLKUN S., ÇİÇEK M.

OHBM 2019 Annual Meeting, ROMA, 9 - 13 June 2019

- III. **Satellite Failure Estimation vs. Reliability Prediction Analysis**
Gures S. D. , ULUSOY İ., Durmaz B.
Annual Reliability and Maintainability Symposium (RAMS) - R and M in the Second Machine Age - The Challenge of Cyber Physical Systems, Florida, United States Of America, 28 - 31 January 2019
- IV. **Classification of fNIRS Data Using Deep Learning for Bipolar Disorder Detection**
Evgin H. B. , Babacan O., ULUSOY İ., Hosgoren Y., Kusman A., Sayar D., Baskak B., Ozguven H. D.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- V. **Surface Vessel Tracking in Airborne Infrared Imagery**
Cakiroglu A., ULUSOY İ.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- VI. **Retinal vessel segmentation using convolutional neural networks**
ULUSOY İ., Güteryüz M. Ş.
2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- VII. **User comfort and energy efficiency in HVAC systems by Q-learning**
ULUSOY İ., Baghaee S.
2018 26th Signal Processing and Communications Applications Conference (SIU), Izmir, Turkey, 2 - 05 May 2018
- VIII. **Effective connectivity modeling of human brain**
ULUSOY İ.
Turking Human Brain Mapping Meeting, Turkey, 21 - 25 November 2017
- IX. **Target detection in hyperspectral images using basic thresholding classifier**
TOKSÖZ M. A. , ULUSOY İ.
Sinyal İşleme ve Uygulamaları Kurultayı, 15 - 18 May 2017
- X. **Automatic small target detection in synthetic infrared images**
YARDIMCI O., ULUSOY İ.
Conference on Automatic Target Recognition XXVII, California, United States Of America, 10 - 11 April 2017, vol.10202
- XI. **Evaluation of Pre-Processing, Thresholding and Post-Processing Steps for Very Small Target Detection in Infrared Images**
YARDIMCI O., ULUSOY İ.
Conference on Automatic Target Recognition XXVI, Maryland, United States Of America, 18 - 19 April 2016, vol.9844
- XII. **The Interpretation of the Effective Connectivity Maps Obtained by Using Dynamic Bayesian Networks on EEG Data**
ERKUŞ E. C. , ULUSOY İ.
20th National Biomedical Engineering Meeting (BIYOMUT), İzmir, Turkey, 3 - 05 November 2016
- XIII. **Tracking Mice Face in Video**
AKKAYA B., TABAR Y. R. , GHARBALCHİ F., ULUSOY PARNAS İ., HALICI U.
20th National Biomedical Engineering Meeting (BIYOMUT), İzmir, Turkey, 3 - 05 November 2016
- XIV. **Effective connectivity differences between control and dyslectic children based on DBN modeling**
RASOULZADEH v., ULUSOY PARNAS İ., KALAYCIOĞLU C.
15th European Congress on Clinical Neurophysiology, Brno, Czech Republic, 30 September - 03 October 2015
- XV. **Small Target Detection By Morphological Operations**
Yardimci O., Tunc S., ULUSOY İ.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.487-490
- XVI. **PERformance and time requirement analysis of top hat transform based small target detection algorithms**
ULUSOY PARNAS İ.
SPIE, 20 - 24 April 2015

- XVII. **Automatic multi scale segmentation of high spatial resolution satellite images using watrsheds**
ULUSOY PARNAS İ., KEREM Ş.
IGARSS2013, 21 - 26 July 2013
- XVIII. **AUTOMATIC MULTI-SCALE SEGMENTATION OF HIGH SPATIAL RESOLUTION SATELLITE IMAGES USING WATERSHEDS**
Sahin K., ULUSOY İ.
IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Melbourne, Australia, 21 - 26 July 2013, pp.2505-2508
- XIX. **A FRAMEWORK FOR DETECTING COMPLEX EVENTS IN SURVEILLANCE VIDEOS**
Onal I., Kardas K., Rezaeitabar Y., Bayram U., Bal M., ULUSOY İ., Cicekli N. K.
IEEE International Conference on Multimedia and Expo Workshops (ICMEW), San-Jose, Costa Rica, 15 - 19 July 2013
- XX. **LEARNING COMPLEX EVENT MODELS USING MARKOV LOGIC NETWORKS**
Kardas K., ULUSOY İ., Cicekli N. K.
IEEE International Conference on Multimedia and Expo Workshops (ICMEW), San-Jose, Costa Rica, 15 - 19 July 2013
- XXI. **Comparison of Cuboid and Tracklet Features for Action Recognition on Surveillance Videos**
Bayram U., ULUSOY İ., Cicekli N. K.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XXII. **Road extraction from satellite images by self-supervised classification and perceptual grouping**
Sahin E., Ulusoy İ.
Conference on Image and Signal Processing for Remote Sensing XIX, Dresden, Germany, 23 - 25 September 2013, vol.8892
- XXIII. **A NOVEL FEATURE EXTRACTION METHOD FOR THE CLASSIFICATION OF SAR IMAGES**
Aytekin O., Koc M., ULUSOY İ.
IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Munich, Germany, 22 - 27 July 2012, pp.3482-3485
- XXIV. **Classification of hyperspectral images based on weighted DMPs**
ULUSOY PARNAS İ., ÖRSAN A., MURA M. D.
IGARSS 2012, 22 - 27 July 2012
- XXV. **Real time FPGA implementation of Full Search video stabilization method**
ÖZSARAÇ İ., ULUSOY PARNAS İ.
2012 20th Signal Processing and Communications Applications Conference (SIU), Mugla, Turkey, Turkey, 18 - 20 April 2012
- XXVI. **VHR IMAGE SEGMENTATION USING OVER SEGMENTED REGIONS IN A MRF MODEL**
Aytekin O., Rezaeitabar Y., ULUSOY İ.
IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Vancouver, Canada, 24 - 29 July 2011, pp.613-616
- XXVII. **Analysis of Face Recognition Algorithms for Online and Automatic Annotation of Personal Videos**
YILMAZTÜRK m., ULUSOY PARNAS İ., ÇİÇEKLİ F. N.
ISCIS, 6 - 08 May 2010
- XXVIII. **SCALE-SPACE APPROACH FOR THE COMPARISON OF HK AND SC CURVATURE DESCRIPTIONS AS APPLIED TO OBJECT RECOGNITION**
Akagunduz E., Eskizara O., ULUSOY İ.
16th IEEE International Conference on Image Processing, Cairo, Egypt, 7 - 10 November 2009, pp.413-416
- XXIX. **Segmentation of high resolution satellite imagery based on mean shift algorithm and morphological operations**
Aytekin Ö., ULUSOY İ., HALICI U.
Image and Signal Processing for Remote Sensing XV, Berlin, Germany, 31 August - 03 September 2009, vol.7477
- XXX. **Airport runway detection in satellite images by Adaboost Learning**
ZÖNGÜR U., HALICI U., AYTEKİN O., ULUSOY İ.

- Image and Signal Processing for Remote Sensing XV, Berlin, Germany, 31 August - 03 September 2009, vol.7477
- XXXI. **Automatic and Unsupervised Building Extraction in Complex Urban Environments from Multi Spectral Satellite Imagery**
AYTEKİN Ö., ERENER A., ULUSOY İ., Duzgun H. S. B.
4th International Conference on Recent Advances in Space Technologies, İstanbul, Turkey, 11 - 13 June 2009, pp.287-288
- XXXII. **Building Detection in High Resolution Remotely Sensed Images Based on Morphological Operators**
Aytekin O., ULUSOY İ., Abacioglu E. Z., Gokcay E.
4th International Conference on Recent Advances in Space Technologies, İstanbul, Turkey, 11 - 13 June 2009, pp.376-377
- XXXIII. **Building detection in high resolution remotely sensed images based on morphological operations**
ULUSOY PARNAS İ., ÖRSAN a., ESRA A.
RAST2009, 11 - 13 June 2009
- XXXIV. **Vision-Based Simultaneous Localization and Map Building: Stereo and Mono SLAM**
Kalay A., ULUSOY İ.
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.391-392
- XXXV. **Regular Remeshing of 3D Human Face Models**
Yirci M., ULUSOY İ.
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.367-369
- XXXVI. **3D object representation using transform and scale invariant 3D features**
AKAGÜNDÜZ E., ULUSOY İ.
2007 IEEE 11th International Conference on Computer Vision, ICCV, Rio-De-Janeiro, Brazil, 14 - 21 October 2007
- XXXVII. **Extraction of 3D transform and scale invariant patches from range scans**
Akagunduz E., ULUSOY İ.
IEEE Conference on Computer Vision and Pattern Recognition, Minnesota, United States Of America, 17 - 22 June 2007, pp.2830-2832
- XXXVIII. **Generative versus discriminative methods for object recognition**
ULUSOY İ., Bishop C. M.
2005 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, CVPR 2005, San Diego, CA, United States Of America, 20 - 25 June 2005, pp.258-265
- XXXIX. **Comparison of generative and discriminative techniques for object detection and classification**
ULUSOY İ., Bishop C. M.
Workshop on Toward Category-Level Object Recognition, Taormina, Italy, 01 January 2004, vol.4170, pp.173-175
- XL. **Object recognition and cognitive map formation using active stereo vision in a virtual world**
ULUSOY İ., HALICI U., Leblebicioglu K.
IEEE International Workshop on Computer Architecture for Machine Perception, CAMP 2003, Louisiana, United States Of America, 12 - 16 May 2003, pp.52-61
- XLI. **Disparity using feature points in multi scale**
ULUSOY İ., Hancock E. R., HALICI U.
Joint IAPR 9th International Workshop on Structural and Syntactic Pattern Recognition, SSPR 2002 and 4th International Workshop on Statistical Techniques in Pattern Recognition, SPR 2002, Windsor, Canada, 6 - 09 August 2002, vol.2396, pp.320-328

Supported Projects

ALATAN A. A., ÖZDEMİR O. B., BATI E., ULUSOY İ., ÇINAR U., GÜRBÜZ Y. Z., AKAR G., ÇETİN Y., YARMAN VURAL F. T., HALICI U., Project Supported by Higher Education Institutions, Uydu Görüntülerinin Otomatik Analizi ile Afet Hasar Tespiti ve Kanunsuz Sınır Geçişlerinin Önlenmesi, 2015 - Continues

Şahin E., Koku A. B. , Turgut A. E. , Saranlı U., Kalkan S., Keysan O., Cinbiş R. G. , Akbaş E., Ankaralı M. M. , Saranlı A., et al., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, ROBOTİK TEKNOLOJİLERİ ARAŞTIRMA, GELİŞTİRME ve EĞİTİM MERKEZİ (ROMER), 2019 - 2022

Ulusoy İ., Ankaralı M. M. , Halıcı U., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, NÖROM Nörobilim ve Nöroteknoloji Mükemmeliyet Merkezi, 2019 - 2022

Alatan A. A. , Kamışlı F., Akyüz A. O. , Temizel A., Halıcı U., Ulusoy İ., Saranlı A., Akar G., Böncü E. S. , Çakırgöz Ç. C. , Project Supported by Defense Industry, Kent Güvenlik Yönetim Sistemleri için Bilişsel Kamera Geliştirilmesi Projesi , 2018 - 2019

Ulusoy İ., Halıcı U., TUBITAK Project, Automatic Evaluation of Pain Related Facial Expressions in Mice Mice Mimic, 2015 - 2018

Ulusoy İ., Çiçek M., TUBITAK Project, Beynin Sayısal İşlevleriyle İlgili Devre Modellerinin Tasarlanması ve Matematik Öğrenme Güçlüğü diskalkuli Hastalık Haritasının Elde Edilmesi, 2015 - 2018

ULUSOY İ., HALICI U., Project Supported by Higher Education Institutions, Prematüre Retinopatisi Teşhisi için Retina Görüntülerinin Bilgisayarla Görü Yöntemleri ile Bölütlenmesi ve Analizi, 2017 - 2017

ULUSOY İ., ÇİÇEK Ç., REZAEI TABAR Y., HALICI U., ERKUŞ E. C. , Project Supported by Higher Education Institutions, KOBLOSUZ EEG MOTOR İMGELEME SİSTEMİ, 2016 - 2016

HALICI U., KÜÇÜKAKŞIT K., ERAL M., ÖNER M. Ü. , ULUSOY İ., AKKAYA İ. B. , SOYSAL R., Project Supported by Higher Education Institutions, YAPAY SINIR AGLARI VE DERİN OĞRENME YONTEMLERİNİN GPU UZERİNDE PARALEL CALISTIRILMASI, 2016 - 2016

ULUSOY İ., Project Supported by Other Private Institutions, Değişik arka planlara sahip ve farklı uzaklıklardan elde edilen kızılötesi görüntülerde otomatik hedef tepiti projesi, 2013 - 2015

ULUSOY İ., Project Supported by Higher Education Institutions, Fpga Üzerinde Stereo Görüntü Alımı, Stereo Analizi Ve Derinlik Çıkarılması, 2009 - 2011

Patent

ULUSOY İ., Object based segmentation method, Patent, CHAPTER G Physics, Initial Registration, 2015

Scientific Refereeing

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Middle East Technical University, Turkey, October 2020

IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, SCI Journal, July 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Middle East Technical University, Turkey, July 2020

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, SCI Journal, May 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Middle East Technical University, Turkey, February 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Middle East Technical University, Turkey, January 2020

Edit Congress and Symposium Activities

Türk Radyoloji Derneği Ankara Şubesi Radyolojide Yapay Zeka Toplantısı, Invited Speaker, Ankara, Turkey, 2020

Citations

Total Citations (WOS):396

h-index (WOS):10