

Prof. ÇİĞDEM EROĞLU ERDEM

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: Z-4276-2019

ScopusID: 55807016900

Yoksis Researcher ID: 122120

Biography

Cigdem Eroglu Erdem received the B.S. and M.S. degrees in [Electrical and Electronics Engineering from Bilkent University](#), Ankara, Turkey in 1995 and 1997, respectively, with high honors. She received the Ph.D. degree in [Electrical and Electronics Engineering from Boğaziçi University](#), Istanbul, Turkey, in 2002. From September 2000 to June 2001, she was a visiting researcher in the Department of Electrical and Computer Engineering, [University of Rochester](#), NY, USA. Between 2003-2004, she was a postdoctoral fellow at the Faculty of Electrical Engineering at the [Delft University of Technology](#), the Netherlands, where she was also affiliated with the video processing group at [Philips Research Laboratories](#), Eindhoven. Between 2002-2009, she was the director of research at [Momentum Digital Media Technologies Inc.](#), a technology SME located in İstanbul. Between 2009-2016, she was a faculty member in the Department of Electrical and Electronics Engineering at Bahcesehir University, Istanbul, Turkey. Since Sep. 2016, she is a faculty member in the [Department of Computer Engineering](#) at Marmara University, Istanbul, Turkey.

Dr. Erdem's current research interests are in the areas of digital image and video processing, computer vision and pattern recognition, with applications to affective computing, motion estimation, video segmentation, object tracking, and human-computer interaction. She served as a referee for numerous technical journals and conferences including IEEE Transactions on Image Processing, IEEE Transactions on Circuits and Systems for Video Technology, Pattern Recognition, Signal Processing: Image Communication, Image and Vision Computing. She also serves as an independent expert and vice-chair during project evaluations for the European Commission.

Education Information

Post Doctorate, Technische Universiteit Delft, Faculty of Electrical Engineering, Mathematics and Computer Science, Department of Mediamatics, Netherlands 2003 - 2004

Doctorate, Bogazici University, Institute Of Science, Elektrik-Elektronik Mühendisliği (Dr), Turkey 1998 - 2002

Postgraduate, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Elektrik Ve Elektronik Mühendisliği (Yl) (Tezli), Turkey 1995 - 1997

Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 1991 - 1995

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Video Object Tracking with Feedback of Performance Measures, Bogazici University, Institute Of Science, 2002
Postgraduate, Subpixel Accuracy Image Registration with Application to Unsteadiness Correction, Ihsan Dogramaci
Bilkent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 1997

Research Areas

Image and Video Processing, Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition,
Human Computer Interaction, Pattern Recognition and Image Processing, Biosignal Processing, Telemedicine

Academic Titles / Tasks

Professor, Marmara University, Faculty of Engineering, Computer Engineering, 2016 - Continues
Professor, Bahcesehir University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2014 - 2016
Associate Professor, Bahcesehir University, Faculty Of Engineering And Natural Sciences, 2009 - 2014

Academic and Administrative Experience

Akreditasyon, Sürekli Gelişim ve Yenilenme Kurulu Üyesi, Marmara University, Faculty of Engineering, Computer Engineering, 2016 - Continues
Marmara University, Faculty of Engineering, 2016 - Continues
Bahçeşehir Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2011 - 2013

Courses

Introduction to Deep Learning, Undergraduate, 2022 - 2023
Numerical Methods, Undergraduate, 2020 - 2021
Pattern Recognition, Postgraduate, 2020 - 2021, 2018 - 2019
Engineering Project II, Undergraduate, 2018 - 2019
Introduction to Machine Learning, Undergraduate, 2019 - 2020
Engineering Project I, Undergraduate, 2019 - 2020
Multimedia Systems , Undergraduate, 2019 - 2020
Digital Image Processing, Postgraduate, 2018 - 2019
Electric Circuits, Undergraduate, 2017 - 2018

Advising Theses

Eroğlu Erdem Ç., Ulukuş M. Y., Prediction of the length of stay and readmission probability of intensive care unit patients, Postgraduate, Ö.KAAN(Student), 2023
Eroğlu Erdem Ç., Remote Heart Rate Estimation Using Non-Contact Photoplethysmography, Doctorate, H.DEMİREZEN(Student), 2022
Eroğlu Erdem Ç., Kahraman N., Hybrid Face Recognition Under Adverse Conditions Using Appearance-based and

Dynamic Features of Facial Expressions, Doctorate, M.TAŞKIRAN(Student), 2022

Eroğlu Erdem Ç., Face recognition using facial dynamics of emotional expressions, Postgraduate, Z.NUR(Student), 2021

Eroğlu Erdem Ç., Detection of presentation attacks for face recognition systems, Postgraduate, M.FATİH(Student), 2020

Eroğlu Erdem Ç., Erdem A. T., Curriculum and active self-paced learning with minimum sparse reconstruction for face recognition, Postgraduate, B.BÜYÜKTAŞ(Student), 2020

Eroğlu Erdem Ç., A Comparative Study of Deep Learning Based Face Recognition Algorithms for Video Under Adverse Conditions, Postgraduate, G.PALA(Student), 2019

EROĞLU ERDEM Ç., Facial age estimation, Postgraduate, F.BALARABE(Student), 2017

EROĞLU ERDEM Ç., Affect recognition based on key frame selection from video, Postgraduate, M.KAYAOĞLU(Student), 2016

EROĞLU ERDEM Ç., Audio-visual affect recognition, Postgraduate, S.ZHALEHPOUR(Student), 2014

EROĞLU ERDEM Ç., A re-acted audio-visual affective Turkish database, Postgraduate, O.ÖNDER(Student), 2014

EROĞLU ERDEM Ç., A video surveillance system for detection of potentially dangerous events in underground railway stations, Postgraduate, M.ALİ(Student), 2013

EROĞLU ERDEM Ç., Automatic extraction of affective multimodal face videos, Postgraduate, C.KANSIN(Student), 2012

EROĞLU ERDEM Ç., Face detection and facial expression recognition using moment invariants, Postgraduate, A.KARAALİ(Student), 2012

EROĞLU ERDEM Ç., Inertial sensor fusion for 3D camera tracking, Postgraduate, N.ÖZER(Student), 2012

EROĞLU ERDEM Ç., Affect recognition from facial expressions for human-computer interaction, Postgraduate, S.ULUKAYA(Student), 2011

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Marmara Üniversitesi, August, 2019

Associate Professor Exam, Associate Professor Exam, Yıldız Teknik Üniversitesi, July, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Boğaziçi Üniversitesi, February, 2018

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İstanbul Teknik Üniversitesi, February, 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Consensus and stacking based fusion and survey of facial feature point detectors**
ULUKAYA S., Sandıkçı E. N., EROĞLU ERDEM Ç.
Journal of Ambient Intelligence and Humanized Computing, vol.14, no.8, pp.9947-9957, 2023 (SCI-Expanded)
- II. **More learning with less labeling for face recognition**
Büyüktaş B., EROĞLU ERDEM Ç., Erdem T.
Digital Signal Processing: A Review Journal, vol.136, 2023 (SCI-Expanded)
- III. **Do Thickening Agents Used in Dysphagia Diet Affect Drug Bioavailability?**
İlgaz F., Timur S. S., Eylem C. C., Nemutlu E., Eroğlu Erdem Ç., Eroğlu H., Gökmen Özel H.
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.174, 2022 (SCI-Expanded)
- IV. **Heart rate estimation from facial videos using nonlinear mode decomposition and improved consistency check**
Demirezen H., Eroğlu Erdem Ç.
SIGNAL IMAGE AND VIDEO PROCESSING, vol.15, no.7, pp.1415-1423, 2021 (SCI-Expanded)
- V. **Presentation Attack Detection for Face Recognition using Remote Photoplethysmography and Cascaded Fusion**
Gündoğar M. F., Eroğlu Erdem Ç.

Turkish Journal Of Electrical Engineering And Computer Sciences, vol.20, pp.3240-3258, 2021 (SCI-Expanded)

- VI. **Hybrid face recognition under adverse conditions using appearance-based and dynamic features of smile expression**
TAŞKIRAN M., KAHRAMAN N., EROĞLU ERDEM Ç.
IET BIOMETRICS, vol.10, no.1, pp.99-115, 2021 (SCI-Expanded)
- VII. **Face recognition: Past, present and future (a review)**
TAŞKIRAN M., KAHRAMAN N., EROĞLU ERDEM Ç.
DIGITAL SIGNAL PROCESSING, vol.106, 2020 (SCI-Expanded)
- VIII. **BAUM-1: A Spontaneous Audio-Visual Face Database of Affective and Mental States**
Zhalehpour S., Onder O., Akhtar Z., Erdem Ç.
IEEE TRANSACTIONS ON AFFECTIVE COMPUTING, vol.8, no.3, pp.300-313, 2017 (SCI-Expanded)
- IX. **Multimodal emotion recognition based on peak frame selection from video**
Zhalehpour S., Akhtar Z., Erdem Ç.
SIGNAL IMAGE AND VIDEO PROCESSING, vol.10, no.5, pp.827-834, 2016 (SCI-Expanded)
- X. **BAUM-2: a multilingual audio-visual affective face database**
Erdem Ç., Turan C., Aydin Z.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.74, no.18, pp.7429-7459, 2015 (SCI-Expanded)
- XI. **Gaussian mixture model based estimation of the neutral face shape for emotion recognition**
Ulukaya S., Erdem Ç.
DIGITAL SIGNAL PROCESSING, vol.32, pp.11-23, 2014 (SCI-Expanded)
- XII. **Formant position based weighted spectral features for emotion recognition**
Bozkurt E., Erzin E., Erdem Ç., Erdem A. T.
SPEECH COMMUNICATION, vol.53, pp.1186-1197, 2011 (SCI-Expanded)
- XIII. **Scene representation technologies for 3DTV - A survey**
Alatan A. A., Yemez Y., Gueduekbay U., Zabulis X., Mueller K., Erdem Ç., Weigel C., Smolic A.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol.17, no.11, pp.1587-1605, 2007 (SCI-Expanded)
- XIV. **Video object segmentation and tracking using region-based statistics**
Erdem Ç.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.22, no.10, pp.891-905, 2007 (SCI-Expanded)
- XV. **Music driven real-time 3D concert simulation**
Yilmaz E., Cetin Y. Y., Erdem Ç., Erdem T., Ozkan M.
MULTIMEDIA CONTENT REPRESENTATION, CLASSIFICATION AND SECURITY, vol.4105, pp.379-386, 2006 (SCI-Expanded)
- XVI. **Temporal stabilization of video object segmentation for 3D-TV applications**
Erdem Ç., Ernst F., Redert A., Hendriks E.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.20, no.2, pp.151-167, 2005 (SCI-Expanded)
- XVII. **Performance measures for video object segmentation and tracking**
Erdem Ç., Sankur B., Tekalp A.
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.13, no.7, pp.937-951, 2004 (SCI-Expanded)
- XVIII. **Video object tracking with feedback of performance measures**
Erdem Ç., Tekalp A., Sankur B.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol.13, no.4, pp.310-324, 2003 (SCI-Expanded)
- XIX. **Motion estimation in the frequency domain using fuzzy c-planes clustering**
Erdem Ç., Karabulut G., Yanmaz E., Anarim E.
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.10, no.12, pp.1873-1879, 2001 (SCI-Expanded)
- XX. **An illumination invariant algorithm for subpixel accuracy image stabilization and its effect on MPEG-2 video compression**
Erdem Ç., Erdem A.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.16, no.9, pp.837-857, 2001 (SCI-Expanded)

Articles Published in Other Journals

I. A NEW ADAPTIVE THRESHOLD ALGORITHM FOR EYEBLINK DETECTION

Peker N. Y., Zengin A., Eroglu Erdem C., DEMİR SOY M. S.

Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), vol.31, no.2, pp.718-728, 2023
(Peer-Reviewed Journal)

Books & Book Chapters

I. Adaptive Facial Recognition under Aging Effect

Akhtar Z., Ahmed A., Eroğlu Erdem Ç., Foresti L. G.

in: Adaptive Biometric Systems: Recent Advances and Challenges, Advances in Computer Vision and Pattern Recognition, A. Rattani, F. Roli, E. Granger, Editor, Springer, London/Berlin, Berlin, pp.97-117, 2015

II. Video Object Segmentation and Tracking: Performance Measures and Active Contour Approaches

EROĞLU ERDEM Ç.

Lambert Academic Publishing, 2010

Refereed Congress / Symposium Publications in Proceedings

I. A Convolutional Neural Network Model for Prediction of ICU Performance Metrics: Time Series And Image Transformation Approaches

Karahan Ö. K., Ulukuş M. Y., Eroğlu Erdem Ç.

Cognitive Computing for Healthcare, 16th International Joint Conference on Biomedical Engineering Systems and Technologies, Lisbon, Portugal, 16 February - 18 March 2023, pp.1

II. Curriculum Learning for Face Recognition

Büyüktaş B., Eroğlu Erdem Ç., Erdem A. T.

European Signal Processing Conference (EUSIPCO 2000), Amsterdam, Netherlands, 18 - 21 January 2021, pp.1-4

III. Detection of Presentation Attacks in Face Recognition Systems with Non-contact Photoplethysmography

Gündoğar M. F., Eroğlu Erdem Ç.

IEEE Signal Processing and Applications Conference (SIU), Gaziantep, Turkey, 5 - 07 October 2020, pp.1-4

IV. Performance Comparison of Deep Learning Based Face Identification Methods for Video Under Adverse Conditions

Pala G., Eroğlu Erdem Ç.

International Conference on Signal-Image Technology and Internet Based Systems (SITIS), , Naples, Italy, 26 - 29 November 2019, pp.1-4

V. Face Recognition Using Dynamic Features Extracted from Smile Videos

TAŞKIRAN M., Killioglu M., KAHRAMAN N., EROĞLU ERDEM Ç.

2019 IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), Sofia, Bulgaria, 3 - 05 July 2019

VI. A Comparison of Facial Landmark Detection Methods

Sandıkçı E. N., Eroğlu Erdem Ç., Ulukaya S.

IEEE 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018

VII. REMOTE PHOTOPLETHYSMOGRAPHY USING NONLINEAR MODE DECOMPOSITION

Demirezen H., Eroğlu Erdem Ç.

IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Calgary, Canada, 15 - 20 April 2018, pp.1060-1064

VIII. An Overview of Non-contact Photoplethysmography

Demirezen H., Eroğlu Erdem Ç.

IEEE 25th Signal Processing and Applications Conference (SIU), Antalya, Turkey, 18 - 20 May 2017

- IX. **Biometric template update under facial aging**
Akhtar Z., Ahmed A., Erdem Ç., Foresti G. L.
2014 IEEE Symposium Series on Computational Intelligence, IEEE SSCI 2014 - 2014 IEEE Symposium on Computational Intelligence in Biometrics and Identity Management, CIBIM 2014, Florida, United States Of America, 9 - 12 December 2014, pp.9-15
- X. **Affect Recognition using Key Frame Selection based on Minimum Sparse Reconstruction**
Kayaoglu M., Erdem Ç.
2015 ACM International Conference on Multimodal Interaction, Washington, United States Of America, 9 - 13 November 2015, pp.519-524
- XI. **Multimodal Emotion Recognition with Automatic Peak Frame Selection**
Zhalehpour S., Akhtar Z., Erdem Ç.
IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA), Alberobello, Italy, 23 - 25 June 2014, pp.116-121
- XII. **A Method for Extraction of Affective Audio-Visual Facial Clips from Movies**
Turan C., Kansin C., Zhalehpour S., Aydin Z., Erdem Ç.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XIII. **Auto-Detection of Unusual Events in Metro Stations via Security Cameras**
Dagli M. A., Erdem Ç.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XIV. **A Turkish Audio-Visual Emotional Database**
Onder O., Zhalehpour S., Erdem Ç.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XV. **Multipose face detection using Zernike moment invariants Zernike moment değişmezleri ile pozdan bağımsız yüz tespiti**
Karaali A., Erdem Ç., Ulukaya S.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Turkey, 18 - 20 April 2012
- XVI. **A hybrid facial expression recognition method based on neutral face shape estimation Yüz ifadesi tanıma için nötr yüz şeklinin kestirilmesine dayali hibrit bir yöntem**
Ulukaya S., Erdem Ç.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Turkey, 18 - 20 April 2012
- XVII. **Inertial sensor fusion for 3D camera tracking 3B kamera takibi için eylemsizlik algilayicilarinin birleştirilmesi**
Özer N., Erdem A. T., Ercan A. Ö., Erdem Ç.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Turkey, 18 - 20 April 2012
- XVIII. **Feature extraction for facial expression recognition by canonical correlation analysis Kanonik korelasyon analizi ile yüz ifadesinden duygu tanıma için özniteli k çıkarımı**
Şakar C. O., Kurşun O., Karaali A., Erdem Ç.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Turkey, 18 - 20 April 2012
- XIX. **ESTIMATION OF THE NEUTRAL FACE SHAPE USING GAUSSIAN MIXTURE MODELS**
Ulukaya S., Erdem Ç.
IEEE International Conference on Acoustics, Speech and Signal Processing, Kyoto, Japan, 25 - 30 March 2012, pp.1385-1388
- XX. **A comparison of geometrical facial features for affect recognition Duygu tanıma için geometrik yüz özniteliklerinin karşılaştırılması**
Ulukaya S., Erdem Ç.
2011 IEEE 19th Signal Processing and Communications Applications Conference, SIU 2011, Antalya, Turkey, 20 - 22

April 2011, pp.861-864

- XXI. **RANSAC-Based Training Data Selection on Spectral Features for Emotion Recognition from Spontaneous Speech**
Bozkurt E., Erzin E., Erdem Ç., Erdem A. T.
PINK SSPnet-COST 2102 International Conference on Analysis of Verbal and Nonverbal Communication and Enactment: The Processing Issues, Budapest, Hungary, 7 - 10 September 2010, vol.6800, pp.36-38
- XXII. **RANSAC-based Training Data Selection for Speaker State Recognition**
Bozkurt E., Erzin E., Erdem Ç., Erdem A. T.
12th Annual Conference of the International-Speech-Communication-Association 2011 (INTERSPEECH 2011), Florence, Italy, 27 - 31 August 2011, pp.3300-3301
- XXIII. **COMBINING HAAR FEATURE AND SKIN COLOR BASED CLASSIFIERS FOR FACE DETECTION**
Erdem Ç., Ulukaya S., Karaali A., Erdem A. T.
IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Prague, Czech Republic, 22 - 27 May 2011, pp.1497-1500
- XXIV. **INTERSPEECH 2009 emotion recognition challenge evaluation INTERSPEECH 2009 duygu tanima yarışması değerlendirmesi**
Bozkurt E., Erzin E., Eroğlu Erdem Ç., Erdem A. T.
18th IEEE Signal Processing and Communications Applications Conference, SIU 2010, Diyarbakır, Turkey, 22 - 24 April 2010, pp.216-219
- XXV. **RANSAC-based Training Data Selection for Emotion Recognition from Spontaneous Speech**
EROĞLU ERDEM Ç., BOZKURT E., ERZİN E., ERDEM A. T.
ACM Multimedia Int. Workshop on Affective Interaction in Natural Environments (AFFINE), 1 - 03 October 2010
- XXVI. **Use of Line Spectral Frequencies for Emotion Recognition from Speech**
Bozkurt E., ERZİN E., EROĞLU ERDEM Ç., ERDEM A. T.
2010 20th International Conference on Pattern Recognition, Istanbul, Turkey, 23 - 26 August 2010
- XXVII. **Authoring and presentation tools for distance learning over interactive TV**
Gürel T. C., Erdem T., Kermen A., Özkan M., Erdem Ç.
8th European Conference on Interactive TV and Video, EuroITV 2010, Tampere, Finland, 9 - 11 June 2010, pp.63-66
- XXVIII. **Improving Automatic Emotion Recognition from Speech Signals**
Bozkurt E., Erzin E., Erdem Ç., Erdem A. T.
10th INTERSPEECH 2009 Conference, Brighton, United Kingdom, 6 - 10 September 2009, pp.312-313
- XXIX. **Automatic Emotion Recognition for Facial Expression Animation from Speech**
Bozkurt E., Erzin E., Erdem Ç., Erdem A. T.
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.271-272
- XXX. **Keyframe reduction techniques for motion capture data**
Oender O., Gueduekbay U., Oezguc B., Erdem T., Erdem Ç., Oezkan M.
3DTV Conference - True Vision - Capture, Transmission and Display of 3D Video, İstanbul, Turkey, 28 - 30 May 2008, pp.293-296
- XXXI. **Speech-driven automatic facial expression synthesis**
Bozkurt E., Erdem Ç., Erzin E., Erdem T., Oezkan M., Tekalp A. M.
3DTV Conference - True Vision - Capture, Transmission and Display of 3D Video, İstanbul, Turkey, 28 - 30 May 2008, pp.253-254
- XXXII. **UNSUPERVISED DANCE FIGURE ANALYSIS FROM VIDEO FOR DANCING AVATAR ANIMATION**
Ofli F., Erzin E., Yemez Y., Tekalp A. M., Erdem Ç., Erdem A. T., Abaci T., Ozkan M. K.
15th IEEE International Conference on Image Processing (ICIP 2008), California, United States Of America, 12 - 15 October 2008, pp.1484-1487
- XXXIII. **Mid-air display for physical exercise and gaming**
Rakkolainen I., Erdem T., Utku B., Erdem Ç., Özkan M.
1st International Conference on 3DTV, 3DTV-CON 2007, Kos, Greece, 7 - 09 May 2007

- XXXIV. **Comparison of phoneme and viseme based acoustic units for speech driven realistic lip animation**
Bozkurt E., Erdem Ç., Erzin E., Erdem T., Oezkan M.
1st International Conference on 3DTV, Kos Isl, Greece, 7 - 09 May 2007, pp.85-86
- XXXV. **Prosody-driven head-gesture animation**
Sargin M. E., Erzin E., Yemez Y., Tekalp A. M., Erdem A. T., Erdem Ç., Oezkan M.
32nd IEEE International Conference on Acoustics, Speech and Signal Processing, Hawaii, United States Of America, 15 - 20 April 2007, pp.677-678
- XXXVI. **Interactive "immaterial" screen for performing arts**
Rakkolainen I., Erdem T., Erdem Ç., Ozkan M., Laitinen M.
14th Annual ACM International Conference on Multimedia, MM 2006, Santa Barbara, CA, United States Of America, 23 - 27 October 2006, pp.185-188
- XXXVII. **Combined filtering and key-frame reduction of motion capture data with application to 3DTV**
Onder O., Erdem Ç., Erdem T., Gudukbay U., Ozguc B.
14th International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision, Plzen, Czech Republic, 30 January - 03 February 2006, pp.29-30
- XXXVIII. **Temporal stabilization of video object segmentation for 3D-TV applications**
Erdem Ç., Ernst F., Redert A., Hendriks E.
International Conference on Image Processing (ICIP 2004), Singapore, Singapore, 24 - 27 October 2004, pp.357-360
- XXXIX. **Performance measures for video object segmentation and tracking**
Erdem Ç., Sankur B., Tekalp A.
Conference on Visual Communications and Image Processing 2003, LUGANO, Switzerland, 8 - 11 July 2003, vol.5150, pp.29-40
- XL. **Metrics for performance evaluation of video object segmentation and tracking without ground-truth**
Erdem Ç., Tekalp A., Sankur B.
International Conference on Image Processing (ICIP 2001), Thessaloniki, Greece, 7 - 10 October 2001, pp.69-72
- XLI. **Non-rigid object tracking using performance evaluation measures as feedback**
Erdem Ç., Sankur B., Tekalp A.
Conference on Computer Vision and Pattern Recognition, Hawaii, United States Of America, 8 - 14 December 2001, pp.323-330
- XLII. **Performance evaluation metrics for object-based video segmentation**
Erdem Ç., Sankur B.
2000 10th European Signal Processing Conference, EUSIPCO 2000, Tampere, Finland, 4 - 08 September 2000
- XLIII. **Projection-based registration of radiological images**
Eroğlu Ç., Çetin A. E.
9th European Signal Processing Conference, EUSIPCO 1998, Island of Rhodes, Greece, 8 - 11 September 1998
- XLIV. **The effect of image stabilization on the performance of the MPEG-2 video coding algorithm**
Erdem A., Eroglu Ç.
Visual Communications and Image Processing 1998 Conference, San-Jose, Costa Rica, 28 - 30 January 1998, vol.3309, pp.272-277
- XLV. **A past algorithm for subpixel accuracy image stabilization for digital film and video**
Eroglu Ç., Erdem A.
Visual Communications and Image Processing 1998 Conference, San-Jose, Costa Rica, 28 - 30 January 1998, vol.3309, pp.786-797

Supported Projects

Eroğlu Erdem Ç., Korçak Ö., Varlı S., TUBITAK Project, Semi-supervised Federated Learning, 2022 - 2024

Eroğlu Erdem Ç., TUBITAK Project, Soft Biometric Data Extraction from Spontaneous Multimodal Affective Face Videos, 2017 - 2020

Eroğlu Erdem Ç., TUBITAK Project, Spontaneous Affect Recognition from Speech and Facial Expressions for Human Computer Interaction, 2010 - 2013
Eroğlu Erdem Ç., Erdem A. T., TUBITAK Project, 3D Tracking of Head Motion using Visual and Inertial Sensors for Augmented Reality Applications, 2010 - 2013
Eroğlu Erdem Ç., Özkan M., TUBITAK Project, Digital TV-based Interactive Education System, 2007 - 2010
Eroğlu Erdem Ç., Onural L., FP6 Project, IST FP6 Network of Excellence on 3DTV Integrated Three Dimensional Television Capture Transmission and Display, 2004 - 2008
Eroğlu Erdem Ç., Özkan M., TUBITAK Project, 3-D Game-based E-learning system, 2005 - 2007
Eroğlu Erdem Ç., Özkan M., TUBITAK Project, Lip Reading System for Hard-of-Hearing People, 2004 - 2005

Scientific Refereeing

Turkey Institutes of Health Administration Project, TÜSEB, Turkey, September 2022
TUBITAK Project, 1501 - Industry R & D Projects Support Program, TÜBİTAK - TEYDEB, Turkey, September 2019
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, January 2019
TTGV, TÜBİTAK-TTGV-TÜSİAD, Turkey, October 2018
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TÜBİTAK, Turkey, January 2018
TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, TÜBİTAK, Turkey, January 2017
H2020 Project, FET, H2020 Future & Emerging Technologies Project, Avrupa Komisyonu, Belgium, January 2015

Scientific Consultations

Infotech, Project Consultancy, Marmara University, Faculty of Engineering, Computer Engineering, Turkey, 2022 - Continues
UYKAPNE, Project Consultancy, Marmara University, Faculty of Engineering, Computer Engineering, Turkey, 2019 - Continues

Metrics

Publication: 68
Citation (WoS): 592
Citation (Scopus): 957
H-Index (WoS): 14
H-Index (Scopus): 16

Scholarships

PhD Scholarship, TUBITAK, 1999 - 2002
Graduate Fellowship and Tuition Scholarship (Bilkent University), University, 1995 - 1997
Undergraduate Fellowship and Tuition Scholarship (Bilkent University), University, 1991 - 1995

Awards

Gazi V., Eroğlu Erdem Ç., TÜBİTAK Ufuk 2020 Above Threshold Award (Researcher), Tübitak, May 2021
Gazi V., Eroğlu Erdem Ç., TÜBİTAK Horizon 2020 Above-Threshold-Award , Tübitak, October 2019
Eroğlu Erdem Ç., TÜBİTAK 2242 University Students Research Project Competition (İstanbul Region) - Supervisor

Award, Tübitak, June 2019

Eroğlu Erdem Ç., TÜBİTAK Project Performance Award (1001 project), Tübitak , March 2019

Eroğlu Erdem Ç., TÜBİTAK 2242 University Students Research Project Competition (İstanbul Region) - Supervisor
Award, Tübitak, September 2018

Eroğlu Erdem Ç., EUSIPCO 2000 Best Paper Award, European Signal Processing Conference (Eusipco), September 2000

Non Academic Experience

Momentum A. Ş.

Technical University of Delft

Philips Research Laboratories