

# Prof. ÇİĞDEM EROĞLU ERDEM

## Personal Information

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## 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

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

Under Graduate, 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  
Post Graduate, 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

## Academic Titles / Tasks

Professor, Marmara University, Faculty of Engineering, Computer Engineering, 2016 - Continues  
Professor, Bahçeşehir Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2014 - 2016  
Associate Professor, Bahçeşehir Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, 2009 - 2014

## Professional Experience

Head of Department, Marmara University, Faculty of Engineering, 2016 - Continues  
Head of Department, Bahçeşehir Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2011 -  
2013

## Courses

Numerical Methods, Under Graduate, 2020 - 2021  
Pattern Recognition, Post Graduate, 2018 - 2019, 2020 - 2021  
Engineering Project II, Under Graduate, 2018 - 2019  
Introduction to Machine Learning, Under Graduate, 2019 - 2020  
Engineering Project I, Under Graduate, 2019 - 2020  
Multimedia Systems , Under Graduate, 2019 - 2020  
Digital Image Processing, Post Graduate, 2018 - 2019  
Electric Circuits, Under Graduate, 2017 - 2018

## Advising Theses

Erdem A. T. , Eroğlu Erdem Ç., Curriculum and active self-paced learning with minimum sparse reconstruction for face recognition, Post Graduate, B.BÜYÜKTAŞ(Student), 2020  
Eroğlu Erdem Ç., Detection of presentation attacks for face recognition systems, Post Graduate, M.FATİH(Student), 2020  
Eroğlu Erdem Ç., A Comparative Study of Deep Learning Based Face Recognition Algorithms for Video Under Adverse Conditions, Post Graduate, G.PALA(Student), 2019  
EROĞLU ERDEM Ç., Facial age estimation, Post Graduate, F.BALARABE(Student), 2017  
EROĞLU ERDEM Ç., Affect recognition based on key frame selection from video, Post Graduate, M.KAYAOĞLU(Student), 2016  
EROĞLU ERDEM Ç., A re-acted audio-visual affective Turkish database, Post Graduate, O.ÖNDER(Student), 2014  
EROĞLU ERDEM Ç., Audio-visual affect recognition, Post Graduate, S.ZHALEHPOUR(Student), 2014  
EROĞLU ERDEM Ç., A video surveillance system for detection of potentially dangerous events in underground railway stations, Post Graduate, M.ALİ(Student), 2013  
EROĞLU ERDEM Ç., Automatic extraction of affective multimodal face videos, Post Graduate, C.KANSIN(Student), 2012

EROĞLU ERDEM Ç., Inertial sensor fusion for 3D camera tracking, Post Graduate, N.ÖZER(Student), 2012  
EROĞLU ERDEM Ç., Face detection and facial expression recognition using moment invariants, Post Graduate, A.KARAALI(Student), 2012  
EROĞLU ERDEM Ç., Affect recognition from facial expressions for human-computer interaction, Post Graduate, S.ULUKAYA(Student), 2011

## **Jury Memberships**

Appointment Academic Staff, Appointment Academic Staff, Marmara Üniversitesi, August, 2019  
Associate Professor Exam, Associate Professor Exam, Yıldız Teknik Üniversitesi, July, 2019  
Appointment Academic Staff, Appointment Academic Staff, Boğaziçi Üniversitesi, February, 2018  
Appointment Academic Staff, Appointment Academic Staff, İstanbul Teknik Üniversitesi, February, 2017

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

- I. **Heart rate estimation from facial videos using nonlinear mode decomposition and improved consistency check**  
Demirezen H., Eroğlu Erdem Ç.  
Signal Image And Video Processing, no.1, pp.1-9, 2021 (Journal Indexed in SCI Expanded)
- II. **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 (Journal Indexed in SCI)
- III. **Face recognition: Past, present and future (a review)**  
TAŞKIRAN M., KAHRAMAN N., EROĞLU ERDEM Ç.  
DIGITAL SIGNAL PROCESSING, vol.106, 2020 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **Video object segmentation and tracking using region-based statistics**  
Erdem Ç.  
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.22, no.10, pp.891-905, 2007 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)

- XII. **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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)

## 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. **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
- II. **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
- III. **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
- IV. **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

- V. **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
- VI. **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
- VII. **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
- VIII. **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
- IX. **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
- X. **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
- XI. **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
- XII. **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
- 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. **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, Muğla, Turkey, 18 - 20 April 2012
- XV. **Inertial sensor fusion for 3D camera tracking 3B kamera takibi için eylemsizlik algılayıcılarının birleştirilmesi**  
Özer N., Erdem A. T. , Ercan A. Ö. , Erdem Ç.  
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Muğla, Turkey, 18 - 20 April 2012
- XVI. **Feature extraction for facial expression recognition by canonical correlation analysis Kanonik korelasyon analizi ile yüz ifadesinden duygu tanıma için öznel k çıkarımı**  
Şakar C. O. , Kurşun O., Karaali A., Erdem Ç.  
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Muğla, Turkey, 18 - 20 April 2012
- XVII. **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, Muğla, Turkey, 18 -

20 April 2012

- XVIII. 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
- XIX. 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
- XX. 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
- XXI. 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
- XXII. 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
- XXIII. INTERSPEECH 2009 emotion recognition challenge evaluation INTERSPEECH 2009 duygu tanıma 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
- XXIV. 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
- XXV. 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
- XXVI. 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
- XXVII. 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
- XXVIII. 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
- XXIX. 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
- XXX. 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

- XXXI. **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
- XXXII. **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
- XXXIII. **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
- XXXIV. **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
- XXXV. **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
- XXXVI. **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
- XXXVII. **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
- XXXVIII. **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
- XXXIX. **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
- XL. **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
- XLI. **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
- XLII. **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
- XLIII. **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
- XLIV. **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

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

Erođlu Erdem ., TUBITAK Project, Spontaneous Affect Recognition from Speech and Facial Expressions for Human Computer Interaction, 2010 - 2013

Erođlu Erdem ., Erdem A. T. , TUBITAK Project, 3D Tracking of Head Motion using Visual and Inertial Sensors for Augmented Reality Applications, 2010 - 2013

Erođlu Erdem ., zkan M., TUBITAK Project, Digital TV-based Interactive Education System, 2007 - 2010

Erođlu Erdem ., Onural L., FP6 Project, IST FP6 Network of Excellence on 3DTV Integrated Three Dimensional Television Capture Transmission and Display, 2004 - 2008

Erođlu Erdem ., zkan M., TUBITAK Project, 3-D Game-based E-learning system, 2005 - 2007

Erođlu Erdem ., zkan M., TUBITAK Project, Lip Reading System for Hard-of-Hearing People, 2004 - 2005

## Scientific Refereeing

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TBİTAK - TEYDEB, Turkey, September 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TBİTAK, Turkey, January 2019

TTGV, TBİTAK-TTGV-TSİAD, Turkey, October 2018

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Arařtırma Burs Programı, TBİTAK, Turkey, January 2018

TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, TBİTAK, Turkey, January 2017

H2020 Project, FET, H2020 Future & Emerging Technologies Project, Avrupa Komisyonu, Belgium, January 2015

## Scientific Consultations

UYKAPNE, Project Consultancy, Marmara University, Faculty of Engineering, Bilgisayar Mhendisliđi Blm, Turkey, 2019 - Continues

## Citations

Total Citations (WOS):420

h-index (WOS):11

## 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., Erođlu Erdem ., TBİTAK Horizon 2020 Above-Threshold-Award , Tbitak, October 2019



Erođlu Erdem ., TBİTAK 2242 University Students Research Project Competition (İstanbul Region) - Supervisor Award, Tbitak, June 2019

Erođlu Erdem ., TBİTAK Project Performance Award (1001 project), Tbitak , March 2019

Erođlu Erdem ., TBİTAK 2242 University Students Research Project Competition (İstanbul Region) - Supervisor Award, Tbitak, September 2018

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