

# Prof. BEKİR DİZDAROĞLU

## Personal Information

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## International Researcher IDs

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## Biography

Bekir Dizdaroglu received his B.S., M.S., and Ph.D. degrees from Department of Electrical - Electronics Engineering, Karadeniz Technical University (KTU), Trabzon, Turkey, in 1994, 1998, and 2007, respectively. He is currently an Assistant Professor at Department of Computer Engineering, KTU, Trabzon, Turkey. His research interests include image inpainting, colorization and editing, fuzzy and wavelet-based image denoising, old motion picture restoration, and medical image processing based on PDEs.

## Education Information

Post Doctorate, Northeastern University, College Of Engineering, Department Of Electrical And Computer Engineering, United States Of America 2011 - 2012

Doctorate, Karadeniz Technical University, Fen Bilimleri, Elektrik-Elektronik Mühendisliği, Turkey 1998 - 2007

Postgraduate, Karadeniz Technical University, Fen Bilimleri, Elektrik-Elektronik Mühendisliği, Turkey 1994 - 1998

Undergraduate, Karadeniz Technical University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 1990 - 1994

## Foreign Languages

English, B2 Upper Intermediate

## Certificates, Courses and Trainings

Vocational Training, İngilizce Medikal Sunum ve Tartışma Becerileri Eğitimi , Karadeniz Teknik Üniversitesi, 2019

Vocational Training, Akademik Düzeyde Bilimsel Araştırma Projesi Hazırlama, Karadeniz Teknik Üniversitesi, 2019

Occupational Health and Safety, İş Sağlığı ve Güvenliği, Karadeniz Teknik Üniversitesi, 2019

Education Management and Planning, MÜDEK Eğitim Çalıştayı, Mühendislik Eğitim Programları Değerlendirme ve Akreditasyon Derneği, Ankara, 2010

Foreign Language, İngilizce Dil Kursu, Kaplan Test Prep. , Boston MA USA, 2010

## Dissertations

## **Dissertations**

Doctorate, Eski Renkli Filmlerdeki Bozuklukları Algılama ve Onarmada Karma Bir Yaklaşım Modeli, Karadeniz Technical University, Fen Bilimleri, Elektrik-Elektronik Mühendisliği, 2007

Postgraduate, Örneklenmiş İşaret İçin Bulanık Mantığa Bağlı Aradeğerleme Algoritması, Karadeniz Technical University, Fen Bilimleri, Elektrik-Elektronik Mühendisliği, 1998

## **Research Areas**

Signal Processing, Image and Video Processing, Computer Sciences, Computer Vision, Software, Programming Languages, Biomedical Engineering, Biomedical Image Processing, Mathematics, Differential Equations, Natural Sciences, Engineering and Technology

## **Academic Titles / Tasks**

Professor, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2024 - Continues

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2018 - 2024

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2007 - 2018

Lecturer, Karadeniz Technical University, Beşikdüzü Meslek Yüksekokulu, Bilgisayar Teknojileri, 1996 - 2007

## **Academic and Administrative Experience**

Deputy Head of Department, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2019 - Continues

## **Courses**

Sinyaller ve Sistemler, Undergraduate, 2023 - 2024

Bilimsel Hesaplama, Postgraduate, 2015 - 2016

Tıbbi Görüntüleme Sistemleri, Undergraduate, 2015 - 2016

Elektrik Devreleri, Undergraduate, 2015 - 2016

Windows Programlama, Undergraduate, 2015 - 2016

İmge ve Video İşleme İçin Matematiksel Modeller, Doctorate, 2014 - 2015

## **Advising Theses**

Dizdaroğlu B., Sürücü Destek Sistemleri İçin Yeni Yol ve İşaret Tanıma Yöntemleri, Doctorate, G.Yıldız(Student), 2024

Dizdaroğlu B., DÜZENLİLEŞTİRME YÖNTEMLERİNİN BİLGİSAYARLI TOMOGRAFİ GÖRÜNTÜLERİNE UYGULANMASI, Postgraduate, C.ALKAN(Student), 2024

Dizdaroğlu B., Odak Tabanlı Konvolüsyonel Sinir Ağları ile Gauss Gürültüsünün Giderilmesi, Doctorate, A.ULU(Student), 2024

Dizdaroğlu B., Blotch restoration in archive videos with extraction of spatiotemporal features, Doctorate, Y.Aydın(Student), 2020

Dizdaroğlu B., Thesis, Postgraduate, S.Özdemir(Student), 2018

Dizdaroğlu B., Thesis, Postgraduate, A.Ulu(Student), 2018

Dizdaroğlu B., Thesis, Postgraduate, H.Özkaya(Student), 2018

## **Jury Memberships**

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Karadeniz Teknik Üniversitesi, June, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Karadeniz Teknik Üniversitesi, June, 2023

Academic Staff Examination, Academic Staff Examination, Karadeniz Teknik Üniversitesi, September, 2022

Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, September, 2022

Competition, Sağlıkta Yapay Zeka Yarışması, TEKNOFEST AEROSPACE AND TECHNOLOGY FESTIVAL, August, 2022

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, March, 2022

Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, February, 2022

Competition, Sağlıkta Yapay Zeka Yarışması, TEKNOFEST AEROSPACE AND TECHNOLOGY FESTIVAL, September, 2021

Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, July, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Erzincan Binali Yıldırım Üniversitesi, November, 2020

Academic Staff Examination, Academic Staff Examination, Karadeniz Teknik Üniversitesi, November, 2020

Academic Staff Examination, Academic Staff Examination, Karadeniz Teknik Üniversitesi, November, 2020

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, September, 2020

Competition, Sürü İHA Simülasyon , TEKNOFEST AEROSPACE AND TECHNOLOGY FESTIVAL, September, 2020

Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, December, 2019

Competition, Sürü İHA Simülasyon, TEKNOFEST AEROSPACE AND TECHNOLOGY FESTIVAL, September, 2019

Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, May, 2019

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, July, 2018

Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, July, 2018

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, May, 2018

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, January, 2018

Academic Staff Examination, Eğitim Fakültesi BÖTEB'e Araştırma Görevlisi Alımı Sınavı, Giresun Üniversitesi, January, 2011

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **MLFAN: Multilevel Feature Attention Network With Texture Prior for Image Denoising**  
ULU A., Yıldız G., DİZDAROĞLU B.  
IEEE ACCESS, vol.11, pp.34260-34273, 2023 (SCI-Expanded)
- II. **Hybrid Image Improving and CNN (HIICNN) Stacking Ensemble Method for Traffic Sign Recognition**  
Yıldız G., Ulu A., Dizdaroglu B., Yıldız D.  
IEEE ACCESS, vol.11, pp.69536-69552, 2023 (SCI-Expanded)
- III. **Blotch Detection in Archive Films Based on Visual Saliency Map**  
AYDIN Y., DİZDAROĞLU B.  
COMPLEXITY, vol.2020, 2020 (SCI-Expanded)
- IV. **Gradient domain photomontage via interactive object selection**  
DİZDAROĞLU B.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.3, pp.1291-1301, 2018 (SCI-Expanded)
- V. **Structure-based level set method for automatic retinal vasculature segmentation**  
DİZDAROĞLU B., Ataer-Cansizoglu E., Kalpathy-Cramer J., KECK K., CHIANG M. F., Erdogmus D.  
EURASIP JOURNAL ON IMAGE AND VIDEO PROCESSING, 2014 (SCI-Expanded)
- VI. **An improved method for color image editing**  
DİZDAROĞLU B., İkibaş C.  
EURASIP JOURNAL ON ADVANCES IN SIGNAL PROCESSING, vol.2011, pp.1-19, 2011 (SCI-Expanded)
- VII. **An Image Completion Method Using Decomposition**  
Dizdaroglu B.

EURASIP JOURNAL ON ADVANCES IN SIGNAL PROCESSING, 2011 (SCI-Expanded)

VIII. **A Spatiotemporal Algorithm for Detection and Restoration of Defects in Old Color Films**

DİZDAROĞLU B., GANGAL A.

LECTURE NOTES IN COMPUTER SCIENCE, vol.4678, pp.509-520, 2007 (SCI-Expanded)

IX. **Automatic restoration of old motion picture films using spatiotemporal exemplar-based inpainting**

Gangal A., Dizdaroglu B.

ADVANCED CONCEPTS FOR INTELLIGENT VISION SYSTEMS, PROCEEDINGS, vol.4179, pp.55-66, 2006 (SCI-Expanded)

X. **An improved motion-compensated restoration method for damaged color motion picture films**

GANGAL A., KAYIKCIOGLU T., Dizdaroglu B.

SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.19, no.4, pp.353-368, 2004 (SCI-Expanded)

## Articles Published in Other Journals

I. **Karmaşık Yayınım İmge Gürültü Azaltma**

Dizdaroglu B.

Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.34, no.1, pp.43-55, 2018 (Peer-Reviewed Journal)

II. **Renkli İmgelerde Çoklu Gürültü Giderme İşlemi İçin İki Aşamalı Bir Yöntem Geliştirilmesi**

Ulu A., Özen Y., Öztürk E., Dizdaroglu B.

International Journal of 3D Printing Technologies and Digital Industry, vol.2, no.3, pp.22-29, 2018 (Peer-Reviewed Journal)

## Books & Book Chapters

I. **Deep Learning-Based Traffic Light Classification with Model Parameter Selection**

Yıldız G., Dizdaroglu B., Yıldız D.

in: 4th International Conference on Artificial Intelligence and Applied Mathematics in Engineering, D. Jude Hemanth, Tuncay Yigit, Utku Kose, Ugur Guvenc, Editor, Springer Nature, Zug, pp.197-217, 2023

II. **Image Denoising with Transformers: A Survey**

ULU A., KARAKAYA A., DİZDAROĞLU B.

in: Smart Solutions with Software, Eyyüp GÜLBANDILAR, Editor, BIDGE Publications, Ankara, pp.86-101, 2023

III. **Eski Renkli Filmlerdeki Bozuklukları Onarmada Karma Bir Yaklaşım**

DİZDAROĞLU B.

Türkiye Alim Kitapları, Saarbrücken, 2015

## Refereed Congress / Symposium Publications in Proceedings

I. **Image Denoising with Transformers: A Survey**

Ulu A., Karakaya A., Dizdaroglu B.

3 th International Congress on Multidisciplinary Natural Sciences and Engineering , Ankara, Turkey, 7 - 08 December 2023, pp.30

II. **Image Denoising via Multiscale Feature Extraction and Triplet Attention based CNN**

Ulu A., Dizdaroglu B.

14th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING, Bursa, Turkey, 30 November - 02 December 2023, pp.1-4

III. **Detection of Thoracic Disease in Chest X-Ray Images Using Lightweight Convolutional Models**

Dizdaroglu B., Kul A.

2023 Medical Technologies Congress, TIPTEKNO'23, Gazimagusa, Cyprus (Kktc), 10 - 12 November 2023, pp.259-

- IV. Deep Learning-based Traffic Light Classification With Hyperparameter Selection**  
Yıldız G., Dizdaroğlu B., Yıldız D.  
International Conference on Artificial Intelligence and Applied Mathematics in Engineering 2022 , Baku, Azerbaijan, 20 - 22 May 2022, pp.157
- V. Deblurring in Color Images Using General Tikhonov Method Based on FFT Algorithm FFT**  
**Algoritmasına Bağlı Genel Tikhonov Yöntemini Kullanarak Renkli Görüntülerde Bulanıklık Giderme**  
Dizdaroğlu B., Ozdemir C. A.  
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022
- VI. Convolutional Neural Network for Traffic Sign Recognition based on Color Space**  
Yıldız G., Dizdaroğlu B.  
II. International Informatics and Software Engineering Conference, Ankara, Turkey, 16 - 17 November 2021, pp.1-5
- VII. Traffic Sign Recognition via Transfer Learning using Convolutional Neural Network Models**  
Yıldız G., Dizdaroğlu B.  
THE 28th IEEE CONFERENCE ON SIGNAL PROCESSING AND COMMUNICATIONS APPLICATIONS, Gaziantep, Turkey, 5 - 07 October 2020, pp.1-4
- VIII. Traffic Sign Detection via Color And Shape-Based Approach**  
Yıldız G., Dizdaroğlu B.  
UBMYK 2019, Ankara, Turkey, 6 - 07 November 2019, pp.1-5
- IX. Blotch Inpainting Based On Sift Feature Extraction in Old Films**  
AYDIN Y., DİZDAROĞLU B.  
11th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2019, pp.570-574
- X. Deep Diagnosis of Non-Proliferative Diabetic Retinopathy in a Mobile System**  
DİZDAROĞLU B., Corbacioglu B.  
Medical Technologies Congress (TIPTEKNO), İzmir, Turkey, 3 - 05 October 2019, pp.41-44
- XI. İmge Gürültü Azaltma Algoritmaları için Bir Derleme**  
Ulu A., Öztürk E., Dizdaroğlu B.  
International Artvin Symposium'18 (IAS'18), Artvin, Turkey, 18 - 20 October 2018, pp.79
- XII. Veri Tipinin Mobil Cihazlarda Dokunma Dinamiği Tabanlı Kimlik Doğrulama için Etkisi**  
Ulu A., Öztürk E., Dizdaroğlu B.  
International Artvin Symposium'18 (IAS'18), Artvin, Turkey, 18 - 20 October 2018, pp.1046-1054
- XIII. Yerel Öznitelik Çıkarımı ile Görüntü İçboyama**  
Aydın Y., DİZDAROĞLU B.  
26. IEEE SİNYAL İŞLEME ve İLETİŞİM UYGULAMALARI KURULTAYI, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- XIV. A New Hybrid Approach with Perona-Malik Improvement for Multi-focus Image Fusion**  
Aymaz S., DİZDAROĞLU B., KÖSE C., AYMAZ Ş.  
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XV. Colorization of Ultrasound Images via Gradient-Based Method**  
Akkaya M., DİZDAROĞLU B.  
Medical Technologies National Congress (TIPTEKNO), Magusa, CYPRUS, 8 - 10 November 2018
- XVI. Image Inpainting with Local Feature Extraction**  
AYDIN Y., DİZDAROĞLU B.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XVII. Gaussian noise removal via heat equation**  
Özer G., DİZDAROĞLU B.  
COSTAS2017, Samsun, Turkey, 9 - 11 November 2017, pp.1
- XVIII. Medical image segmentation with edge based level sets: Mobile client-server application**  
AYDIN H., DİZDAROĞLU B.

2017 International Conference on Computer Science and Engineering (UBMK), Antalya, Turkey, 5 - 07 October 2017, pp.994-999

- XIX. **Automated removal of Gaussian noise in color images Renkli İmgelerde Gauss Gürültüsünü Otomatik Giderilmesi**  
ULU A., Dizdaroğlu B.  
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- XX. **Mobile Based System for Diagnosis of Retinal Diseases**  
Corbacioglu B., Kul B. A., DİZDAROĞLU B.  
Medical Technologies National Congress (TIPTEKNO), Trabzon, Turkey, 12 - 14 October 2017
- XXI. **Automated Removal of Gaussian Noise in Color Images**  
ULU A., DİZDAROĞLU B.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XXII. **Medical Image Segmentation with Edge Based Level Sets: Mobile Client Server Application**  
AYDIN H., DİZDAROĞLU B.  
2017 International Conference on Computer Science and Engineering (UBMK), Antalya, Turkey, 5 - 08 October 2017, pp.994-999
- XXIII. **Renkli İmgelerin Değişimsel Toplanırların Gürültüsünü Giderimi**  
ULU A., DİZDAROĞLU B.  
SIU 2016 IEEE 24. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Zonguldak, Turkey, 16 - 19 May 2016, pp.1
- XXIV. **Yapı ve Doku Bileşenlerine Bağlı İmge İç Boyama**  
Özkaya H., DİZDAROĞLU B.  
SIU 2016 IEEE 24. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Zonguldak, Turkey, 16 - 19 May 2016, pp.1
- XXV. **Image Inpainting Based on Structure and Texture Components**  
Ozkaya H., DİZDAROĞLU B.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.637-640
- XXVI. **Variational Additive Noise Removal of Color Images**  
ULU A., DİZDAROĞLU B.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1385-1388
- XXVII. **Bulanık Girdili Poisson Tıbbi İmge Örgüleme**  
Aktaş K., DİZDAROĞLU B.  
BIYOMUT2015 19. Biyomedikal Mühendisliği Ulusal Kongresi, İstanbul, Turkey, 5 - 06 November 2015, pp.1
- XXVIII. **Düzyükümüleriyle Etkili Retinal Damar Bölütlemesi**  
Güç M., DİZDAROĞLU B.  
TIPTEKNO'15 Tıp Teknolojileri Ulusal Kongresi, Muğla, Turkey, 15 - 18 October 2015, pp.85-88
- XXIX. **Aktif Çevre Modeliyle Tıbbi İmge Bölütleme: İstemci-Sunucu İletişimine Bağlı Akıllı Telefon Uygulaması**  
Has M., Kaplan A. B., DİZDAROĞLU B.  
TIPTEKNO'15 Tıp Teknolojileri Ulusal Kongresi, Muğla, Turkey, 15 - 18 October 2015, pp.42-45
- XXX. **İstemci Sunucu Tabanlı Fotomontaj**  
Damkhi M., Mohamed N. A., DİZDAROĞLU B.  
SIU 2015 IEEE 23. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Malatya, Turkey, 16 - 19 May 2015
- XXXI. **Hızlı Düzyükümü Yöntemine Bağlı Retinal Damar Bölütlemesi**  
DİZDAROĞLU B.  
SIU 2015 IEEE 23. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Malatya, Turkey, 16 - 19 May 2015
- XXXII. **İlgün Dönüşümü Ayrışımıyla Nesne Normalize Etme**  
DİZDAROĞLU B.  
SIU 2015 IEEE 23. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Malatya, Turkey, 16 - 19 May 2015, pp.1
- XXXIII. **İstemci-Sunucu Tabanlı Fotomontaj**  
Damkhi M., Mohamed N. A., DİZDAROĞLU B.

- SIU 2015 IEEE 23. Sinyal Isleme ve İletişim Uygulamaları Kurultayı, Malatya, Turkey, 16 - 19 May 2015, pp.1
- XXXIV. **Medical Image Segmentation with Active Contour Model: Smartphone Application Based on Client-Server Communication**  
Has M., Kaplan A. B., DİZDAROĞLU B.  
Medical Technologies National Conference (TIPTEKNO), Bodrum, Turkey, 15 - 18 October 2015
- XXXV. **Client-Server Based Photomontage**  
Damkhi M., Mohamed N. A., DİZDAROĞLU B.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.596-599
- XXXVI. **Retinal Vasculature Segmentation Based on Fast Level Set Method**  
DİZDAROĞLU B.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.855-858
- XXXVII. **Object Normalization via Decomposition of Affine Transform**  
DİZDAROĞLU B.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.859-862
- XXXVIII. **Poisson Medical Image Matting with Fuzzy Input**  
Aktas K., DİZDAROĞLU B.  
19th National Biomedical Engineering Meeting (BIYOMUT), İstanbul, Turkey, 5 - 06 November 2015
- XXXIX. **Efficient Retinal Vessel Segmentation with Level Sets**  
Guc M., DİZDAROĞLU B.  
Medical Technologies National Conference (TIPTEKNO), Bodrum, Turkey, 15 - 18 October 2015
- XL. **PDEs-Based Gaussian Noise Removal from Color Images**  
ÖZDEMİR S., DİZDAROĞLU B.  
9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.246-250
- XLI. **Yönbağımsız ve Yönbağımlı Gauss Süzgeçleme**  
Yıldırım D., DİZDAROĞLU B.  
ELECO 2014 ELEKTRİK - ELEKTRONİK, BİLGİSAYAR ve BİYOMEDİKAL MÜHENDİSLİĞİ SEMPOZYUMU, Bursa, Turkey, 27 - 29 November 2014, pp.1
- XLII. **Kenar Tabanlı Düzey Kümeleriyle Tıbbi İmge Bölütleme İçin Mobil Uygulama**  
DİZDAROĞLU B., Kengil A., Topaloğlu B.  
TIPTEKNO'14 Tıp Teknolojileri Ulusal Kongresi, Nevşehir, Turkey, 25 - 27 September 2014, pp.31-34
- XLIII. **Bölge Tabanlı Düzey Kümeleriyle Tıbbi İmge Bölütleme**  
DİZDAROĞLU B.  
TIPTEKNO'14 Tıp Teknolojileri Ulusal Kongresi, Nevşehir, Turkey, 25 - 27 September 2014, pp.235-238
- XLIV. **Kenar Tabanlı Düzey Kümeleriyle Otomatik Tıbbi İmge Bölütleme**  
DİZDAROĞLU B.  
TIPTEKNO'14 Tıp Teknolojileri Ulusal Kongresi, Nevşehir, Turkey, 25 - 27 September 2014, pp.27-30
- XLV. **Önsel Bilgiyle El İmgelerinin Çevritini Bulma ve Temel Bileşenler Analiziyle Eli Yeniden Modelleme**  
DİZDAROĞLU B., Bayrak E.  
URSI-TÜRKİYE'2014 VII. Bilimsel Kongresi, Elazığ, Turkey, 28 - 30 August 2014
- XLVI. **Poisson Denklemini Kullanarak Mobil Tabanlı Fotomontaj**  
DİZDAROĞLU B., Karaağaç E., Kaya M., Durak E., Ergün H., Sayılğan Y.  
URSI-TÜRKİYE'2014 VII. Bilimsel Kongresi, Elazığ, Turkey, 28 - 30 August 2014, pp.103-105
- XLVII. **Önsel Bilgiyle El İmgelerinin Çevritini Bulma ve Temel Bileşenler Analiziyle Eli Yeniden Modelleme**  
DİZDAROĞLU B., Bayrak E.  
URSI-TÜRKİYE'2014 VII. Bilimsel Kongresi, Elazığ, Turkey, 28 - 30 August 2014, pp.106-108
- XLVIII. **Yönlendirilebilir Süzgeçlerin Karmaşık Çözümlemesi**  
DİZDAROĞLU B.

Signal Processing and Communications Applications Conference (SIU), 2013 21st, Cyprus (Kktc), 24 - 26 April 2013

**XLIX. Düzey Kümelerini Kullanarak Renkli İmge Bölütleme**

DİZDAROĞLU B.

Signal Processing and Communications Applications Conference (SIU), 2013 21st, Cyprus (Kktc), 24 - 26 April 2013

**L. Healed Photomontage via Poisson Equation**

Dizdaroglu B.

21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013

**LI. Color Image Segmentation Using Level Sets**

Dizdaroglu B.

21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013

**LII. Complex Analysis of Steerable Filters**

Dizdaroglu B.

21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013

**LIII. Level Sets for Retinal Vasculature Segmentation Using Seeds from Ridges and Edges from Phase Maps**

DİZDAROĞLU B., Ataer-Cansizoglu E., KALPATHY-CRAMER J., KECK K., CHIANG M. F., Erdogmus D.

22nd IEEE International Workshop on Machine Learning for Signal Processing (MLSP), Santander, Spain, 23 - 26 September 2012

**LIV. Patch-Based Image Denoising in the Wavelet Domain**

DİZDAROĞLU B.

The 2010 International Conference on Image Processing, Computer Vision, and Pattern Recognition, Las Vegas, Nevada, United States Of America, 12 - 15 July 2010, pp.887-891

**LV. Solving Heat Flow Equation for Image Regularization**

DİZDAROĞLU B.

The 1st International Symposium on Computing in Science & Engineering, Aydın, Turkey, 3 - 05 June 2010, pp.372-377

**LVI. A Seamless Image Editing Technique Using Color Information**

DİZDAROĞLU B., İkibaş C.

IPCV 2009: proceedings of the 2009 international conference on image processing, computer vision, & pattern recognition, Las Vegas, Nevada, United States Of America, 13 - 16 July 2009, pp.216-221

**LVII. Color Image Completion Using Simultaneous Geometry and Texture**

DİZDAROĞLU B.

13th World Multi-Conference on Systemics, Cybernetics and Informatics, Orlando, Florida, United States Of America, 10 - 13 July 2009, pp.126-131

**LVIII. Fuzzy Anisotropic Smoothing of Scalar Images**

DİZDAROĞLU B.

The 2nd International Multi-Conference on Engineering and Technological Innovation, Orlando, Florida, United States Of America, 10 - 13 July 2009, pp.258-264

**LIX. PDE Based Denoising of Grayscale Images Using Type II Fuzzy Sets**

DİZDAROĞLU B.

INISTA 2009 International Symposium on INnovations in Intelligent SysTems and Applications, Trabzon, Turkey, 29 June - 01 July 2009, pp.179-184

**LX. POISSON DENKLEMNE BAGLI RENKLİ İMGE DÜZENLEME**

DİZDAROĞLU B., ÇAVDAR T.

5. Uluslararası İleri Teknolojiler Sempozyumu (IATS'09), Karabük, Turkey, 13 - 15 May 2009

**LXI. BİR EKİRAN KARTININ TASARIMI VE GERÇEKLENMESİ**

ÇAVDAR T., DİZDAROĞLU B.

5. Uluslararası İleri Teknolojiler Sempozyumu (IATS'09), Karabük, Turkey, 13 - 15 May 2009

**LXII. Poisson Denklemine Bağlı Renkli İmge Düzenleme**



DİZDAROĞLU B., Çavdar T.

5. Uluslararası İleri Teknolojiler Sempozyumu (IATS'09), Karabük, Turkey, 13 May - 15 September 2009, pp.438-442

**LXIII. Design and Implementation of A Mat Forming Machine**

ÇAVDAR T., DİZDAROĞLU B.

5th International Advanced Technologies Symposium (IATS'09), Karabük, Turkey, 13 - 15 May 2009

**LXIV. Design and Implementation of a Graphic Adaptor**

ÇAVDAR T., DİZDAROĞLU B.

5th International Advanced Technologies Symposium (IATS'09), Karabük, Turkey, 13 - 15 May 2009

**LXV. Color Image Editing Based on Poisson Equation**

DİZDAROĞLU B., ÇAVDAR T.

5th International Advanced Technologies Symposium (IATS'09), Karabük, Turkey, 13 - 15 May 2009

**LXVI. En Uygun Eşikleme Kullanarak Resim Ayrılmalarını Algılama**

DİZDAROĞLU B.

Signal Processing and Communications Applications Conference, 2009, SIU 2009. IEEE 17th, Turkey, 9 - 11 April 2009

**LXVII. Detection of Painting Cracks Using Optimal Thresholding**

Dizdaroglu B.

IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.263-266

**LXVIII. Kısmi Türevsel Denklemlerle Gri Ölçekli İmge Düzenleme**

DİZDAROĞLU B.

ELECO 2008 ELEKTRİK - ELEKTRONİK ve BİLGİSAYAR MÜHENDİSLİĞİ SEMPOZYUMU, Bursa, Turkey, 26 - 30 November 2008

**LXIX. Resim Ayrılmalarını Akıllı Onarma**

DİZDAROĞLU B.

ELECO 2008 ELEKTRİK - ELEKTRONİK, BİLGİSAYAR ve BİYOMEDİKAL MÜHENDİSLİĞİ SEMPOZYUMU, Bursa, Turkey, 26 - 30 November 2008, pp.1

**LXX. Resim Ayrılmalarını Otomatik Rötüslama**

DİZDAROĞLU B.

Kültür ve Turizm Bakanlığı Bilgi Teknolojileri Çalıştay, Muğla, Turkey, 26 - 27 September 2008

**LXXI. İmge Renklendirme için Karma Bir Yöntem**

DİZDAROĞLU B.

2008 IEEE 16TH SIGNAL PROCESSING, COMMUNICATION AND APPLICATIONS CONFERENCE, VOLS 1 AND 2, Turkey, 20 - 22 April 2008

**LXXII. A Hybrid Method for Image Colorization**

Dizdaroglu B.

IEEE 16th Signal Processing and Communications Applications Conference, Aydın, Turkey, 20 - 22 April 2008, pp.140-143

**LXXIII. Eski Renkli Filmlerdeki Lekelerin Yok Edilmesi İçin Zaman Uzamsal Bir İçboya Yöntemi**

DİZDAROĞLU B., GANGAL A.

2007 IEEE 15TH SIGNAL PROCESSING AND COMMUNICATIONS APPLICATIONS, VOLS1-3, Turkey, 11 - 13 June 2007, pp.294-297

**LXXIV. Eski Renkli Filmlerde Hareket Gezinesinin Zamansalsürekliliğine Bağlı Olarak Bozuk Bölgelerdeki Hareket Vektörlerini Onarma ve Leke Algılama**

DİZDAROĞLU B., GANGAL A.

2007 IEEE 15TH SIGNAL PROCESSING AND COMMUNICATIONS APPLICATIONS, VOLS1-3, Turkey, 11 - 13 June 2007, pp.290-293

**LXXV. A spatiotemporal algorithm for detection and restoration of defects in old color films**

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9th International Conference on Advanced Concepts for Intelligent Vision Systems, Delft, Netherlands, 28 - 31

August 2007, vol.4678, pp.509-520

- LXXVI. **A spatiotemporal inpainting method for blotches removal in old color films**  
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IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.294-297
- LXXVII. **Repairing of motion vectors within defect regions based on temporal continuity of motion trajectory and blotch detection in old color films**  
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- LXXVIII. **İçboyamaya Dayalı Film Onarma**  
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- LXXIX. **Automatic restoration of old motion picture films using spatiotemporal exemplar based inpainting**  
GANGAL A., DİZDAROĞLU B.  
Advanced Concepts for Intelligent Vision Systems Lecture Notes in Computer Science, Antwerp, Belgium, 18 April - 21 October 2006, pp.55-66
- LXXX. **Film restoration based on inpainting**  
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IEEE 14th Signal Processing and Communications Applications, Antalya, Turkey, 16 - 19 April 2006, pp.449-450
- LXXXI. **Bozulmuş Renkli Sinema Filmlerindeki Lekelerin Aradegerleme ile Yok edilmesi**  
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- LXXXII. **Eski Sinema Filmlerinin Bulanık Mantığa Dayalı Onarılması**  
GANGAL A., DİZDAROĞLU B.  
SIU 2002 10. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Denizli, Turkey, 12 - 14 June 2002, pp.1220-1225
- LXXXIII. **Bulanık Mantık Tabanlı Parametre Kestirimi ve Sayısal Koruma Rölelerine Uygulanması**  
DİZDAROĞLU B., Altaş İ. H., GANGAL A.  
Elektrik-Elektronik Bilgisayar 8. Ulusal Kongresi, Gaziantep, Turkey, 6 - 12 September 1999, pp.681-684
- LXXXIV. **İsaret Örneklemede Bulanık Mantık Yöntemi**  
DİZDAROĞLU B., GANGAL A., Kayıkçıoğlu T., Atasoy A.  
5. Sinyal İşleme ve Uygulamaları Kurultayı, İzmir, Turkey, 1 - 03 May 1997, pp.855-860

## Supported Projects

Dizdaroğlu B., Erdöl H., Karagöz K., KOSGEB, Diyabetik Retinopatinin Seviyelerinin Kestirimi İçin Derin Öğrenmeye Dayalı Mobil Tabanlı Yazılım, 2023 - 2024

## Student Project

Software Project, Elektrik Sistem Tasarımında Excel Dokümanlarının Visualize Edilmesi, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2023 - Continues

## Activities in Scientific Journals

Turk J Elec Eng & Comp Sci, Editor, 2015 - 2016

## Memberships / Tasks in Scientific Organizations

8. Uluslararası Bilgisayar Bilimleri ve Mühendisliği Konferansı (UBMK 2023), Member of Science Committee, 2023 - Continues, Turkey

## Scientific Refereeing

MOLECULES, Journal Indexed in SCI-E, December 2023

COMPUTERS AND ELECTRICAL ENGINEERING, Journal Indexed in SCI-E, November 2023

COMPUTERS AND ELECTRICAL ENGINEERING, Journal Indexed in SCI-E, November 2023

Project Supported by Higher Education Institutions, BAP Other, Karadeniz Technical University, Turkey, November 2023

APPLIED SCIENCES, Journal Indexed in SCI-E, September 2023

JOURNAL OF VISUAL COMMUNICATION & IMAGE REPRESENTATION, SCI Journal, August 2023

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TUBITAK Project, 1501 - Industry R & D Projects Support Program, WELLZTECH BİLİŞİM VE İLERİ TEKNOLOJİLER ANONİM ŞİRKETİ ARPAÇ TEKNOLOJİ LTD. ŞTİ., Turkey, August 2023

JOURNAL OF KING SAUD UNIVERSITY - COMPUTER AND INFORMATION SCIENCES, Journal Indexed in SCI-E, July 2023

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Project Supported by Higher Education Institutions, BAP Research Project, Van Yüzüncü Yil University, Turkey, April 2021  
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Neural Computing and Applications , SCI Journal, October 2018  
IEEE Transactions on Industrial Informatics , SCI Journal, October 2018  
Turkish Journal Of Electrical Engineering & Computer Sciences , SCI Journal, July 2018  
Neural Computing and Applications, SCI Journal, March 2017  
Turk J Elec Eng & Comp Sci , SCI Journal, March 2017  
Applied Soft Computing, SCI Journal, February 2017  
Neural Computing and Applications, SCI Journal, February 2017  
Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization, Other Indexed Journal,  
January 2017  
Neural Computing and Applications, SCI Journal, January 2017  
Applied Soft Computing, SCI Journal, January 2017  
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Applied Soft Computing, SCI Journal, April 2015  
Turk J Elec Eng & Comp Sci, SCI Journal, March 2015  
Signal, Image and Video Processing, SCI Journal, August 2013  
EURASIP Journal on Advances in Signal Processing, SCI Journal, July 2013  
Image and Video Processing - An Introductory Guide, Scientific / Professional Book Published by Other Publishers, July  
2012  
The Visual Computer, SCI Journal, March 2012  
Turk J Elec Eng & Comp Sci, SCI Journal, February 2012  
Image and Video Processing - An Introductory Guide, Scientific / Professional Book Published by Other Publishers,  
January 2012

## Metrics

Publication: 105

Citation (WoS): 77

Citation (Scopus): 109

H-Index (WoS): 5

H-Index (Scopus): 4

## Congress and Symposium Activities

TIPTEKNO'23 - Tıp Teknolojileri Ulusal Kongresi, Session Moderator, Gazimagusa, Cyprus (Kkct), 2023

TIPTEKNO'19 - Tıp Teknolojileri Ulusal Kongresi, Attendee, Aydın, Turkey, 2019

1. Bütünleşik İşlemci Ünitesi Projesi Teknoloji Çarşılayı, Attendee, Kocaeli, Turkey, 2018

TIPTEKNO 2018, Attendee, Gazimagusa, Cyprus (Kkct), 2018

TIPTEKNO 2018, Session Moderator, Gazimagusa, Cyprus (Kkct), 2018

TIPTEKNO 2017, Attendee, Trabzon, Turkey, 2017

TIPTEKNO 2017, Session Moderator, Trabzon, Turkey, 2017

SIU 2016, Attendee, Zonguldak, Turkey, 2016

BIYOMUT 2015, Attendee, İstanbul, Turkey, 2015

TIPTEKNO 2015, Attendee, Muğla, Turkey, 2015

TIPTEKNO 2014, Attendee, Nevşehir, Turkey, 2014

URSI 2014, Attendee, Elazığ, Turkey, 2014

SIU 2014, Session Moderator, Trabzon, Turkey, 2014

SIU 2013, Attendee, Girne, Cyprus (Kkct), 2013

SIU 2015, Attendee, Malatya, Turkey, 2013

ISCSE 2010, Attendee, Aydın, Turkey, 2010

IMETI 2009, Attendee, Florida, United States Of America, 2009

WMSCI 2009, Attendee, Florida, United States Of America, 2009

IPCV 2009, Attendee, Nevada, United States Of America, 2009

IATS 2009, Attendee, Karabük, Turkey, 2009

INISTA 2009, Attendee, Trabzon, Turkey, 2009

ELECO 2008, Attendee, Bursa, Turkey, 2008

E-kül-tür, Attendee, Muğla, Turkey, 2008

SIU 2008, Attendee, Aydın, Turkey, 2008

ACIVS 2007, Attendee, Delft, Netherlands, 2007

SIU 2007, Attendee, Eskişehir, Turkey, 2007

SIU 2006, Attendee, Antalya, Turkey, 2006

SIU 2003, Attendee, İstanbul, Turkey, 2003

SIU 2002, Attendee, Denizli, Turkey, 2002

ELECO 1999, Attendee, Gaziantep, Turkey, 1999

SIU 1997, Attendee, İzmir, Turkey, 1997

## Scholarships

Doktora Sonrası Araştırma (Northeastern University, Boston MA USA), TÜBİTAK, 2011 - 2012

## Awards

Dizdarođlu B., orbaciođlu B., Kul B. A., KTÜ-TTO 2017 Düşünden Gerçeđine Proje Pazarı Bilişim, Biyomedikal ve Sađlık Teknolojileri , Teknoloji Transfer Ofisi , June 2017

## **Non Academic Experience**

Northeastern University Boston MA ABD

Kaplan Test Prep Boston MA ABD