

## Doç. Dr. EVGİN GÖÇERİ

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: A-8801-2016

ScopusID: 36166929500

Yoksis Araştırmacı ID: 34612

### Eğitim Bilgileri

Post Doktora, Ohio State University, College Of Medicine, Biomedical Informatics, Amerika Birleşik Devletleri 2015 - 2016

Doktora, İzmir Yüksek Teknoloji Enstitüsü, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği Bölümü, Elektronik Ve Haberleşme Programı, Türkiye 2007 - 2013

Lisans, Ege Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Türkiye 1997 - 2002

### Yaptığı Tezler

Doktora, A Comparative Evaluation For Liver Segmentation From SPIR Images And A Novel Level Set Method Using Signed Pressure Force Function, İzmir Yüksek Teknoloji Enstitüsü, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Bölümü, 2013

### Araştırma Alanları

Biyomedikal Mühendisliği, Biyomedikal Görüntü İşleme, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Doç. Dr., Akdeniz Üniversitesi, Mühendislik Fakültesi, Biyomedikal Mühendisliği Bölümü, 2018 - Devam Ediyor

Yrd. Doç. Dr., Akdeniz Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2015 - 2018

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- A comprehensive investigation of multimodal deep learning fusion strategies for breast cancer classification**  
Nakach F., Idri A., GÖÇERİ E.  
Artificial Intelligence Review, cilt.57, sa.12, 2024 (SCI-Expanded)
- GAN based augmentation using a hybrid loss function for dermoscopy images**  
GÖÇERİ E.  
Artificial Intelligence Review, cilt.57, sa.9, 2024 (SCI-Expanded)
- Vision transformer based classification of gliomas from histopathological images**

- GÖÇERİ E.  
Expert Systems with Applications, cilt.241, 2024 (SCI-Expanded)
- IV. **Nuclei segmentation using attention aware and adversarial networks**  
GÖÇERİ E.  
Neurocomputing, cilt.579, 2024 (SCI-Expanded)
- V. **Exploring data mining and machine learning in gynecologic oncology**  
Idlahcen F., Idri A., GÖÇERİ E.  
Artificial Intelligence Review, cilt.57, sa.2, 2024 (SCI-Expanded)
- VI. **Medical image data augmentation: techniques, comparisons and interpretations**  
GÖÇERİ E.  
Artificial Intelligence Review, cilt.56, sa.11, ss.12561-12605, 2023 (SCI-Expanded)
- VII. **Comparison of the impacts of dermoscopy image augmentation methods on skin cancer classification and a new augmentation method with wavelet packets**  
GÖÇERİ E.  
International Journal of Imaging Systems and Technology, cilt.33, sa.5, ss.1727-1744, 2023 (SCI-Expanded)
- VIII. **Classification of skin cancer using adjustable and fully convolutional capsule layers**  
GÖÇERİ E.  
Biomedical Signal Processing and Control, cilt.85, 2023 (SCI-Expanded)
- IX. **Evaluation of denoising techniques to remove speckle and Gaussian noise from dermoscopy images**  
GÖÇERİ E.  
Computers in Biology and Medicine, cilt.152, 2023 (SCI-Expanded)
- X. **Diagnosis of skin diseases in the era of deep learning and mobile technology**  
GÖÇERİ E.  
COMPUTERS IN BIOLOGY AND MEDICINE, cilt.134, 2021 (SCI-Expanded)
- XI. **Deep learning based classification of facial dermatological disorders**  
GÖÇERİ E.  
COMPUTERS IN BIOLOGY AND MEDICINE, cilt.128, 2021 (SCI-Expanded)
- XII. **CapsNet topology to classify tumours from brain images and comparative evaluation**  
GÖÇERİ E.  
IET IMAGE PROCESSING, cilt.14, sa.5, ss.882-889, 2020 (SCI-Expanded)
- XIII. **Diagnosis of Alzheimer's disease with Sobolev gradient-based optimization and 3D convolutional neural network**  
GÖÇERİ E.  
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN BIOMEDICAL ENGINEERING, cilt.35, sa.7, 2019 (SCI-Expanded)
- XIV. **A method for liver segmentation in perfusion MR images using probabilistic atlases and viscous reconstruction**  
Dura E., Domingo J., GÖÇERİ E., Marti-Bonmati L.  
PATTERN ANALYSIS AND APPLICATIONS, cilt.21, sa.4, ss.1083-1095, 2018 (SCI-Expanded)
- XV. **Quantitative validation of anti-PTBP1 antibody for diagnostic neuropathology use: Image analysis approach**  
GÖÇERİ E., Goksel B., Elder J. B., Puduvali V. K., Otero J. J., Gurcan M. N.  
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN BIOMEDICAL ENGINEERING, cilt.33, sa.11, 2017 (SCI-Expanded)
- XVI. **Vessel segmentation from abdominal magnetic resonance images: adaptive and reconstructive approach**  
Goceri E., Shah Z. K., Gurcan M. N.  
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN BIOMEDICAL ENGINEERING, cilt.33, sa.4, 2017 (SCI-Expanded)
- XVII. **Automated fluorescent microscopic image analysis of PTBP1 expression in glioma**  
Kaya B., GÖÇERİ E., Becker A., Elder B., Puduvali V., Winter J., Gurcan M., Otero J. J.

- PLOS ONE, cilt.12, sa.3, 2017 (SCI-Expanded)
- XVIII. **Probabilistic liver atlas construction**  
Dura E., Domingo J., Ayala G., Marti-Bonmati L., GÖÇERİ E.  
BIOMEDICAL ENGINEERING ONLINE, cilt.16, 2017 (SCI-Expanded)
- XIX. **Automatic labeling of portal and hepatic veins from MR images prior to liver transplantation**  
GÖÇERİ E.  
INTERNATIONAL JOURNAL OF COMPUTER ASSISTED RADIOLOGY AND SURGERY, cilt.11, sa.12, ss.2153-2161, 2016 (SCI-Expanded)
- XX. **Fully automated liver segmentation using Sobolev gradient-based level set evolution**  
GÖÇERİ E.  
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN BIOMEDICAL ENGINEERING, cilt.32, sa.11, 2016 (SCI-Expanded)
- XXI. **Quantification of liver fat: A comprehensive review**  
Goceri E., Shah Z. K., Layman R., Jiang X., Gurcan M. N.  
COMPUTERS IN BIOLOGY AND MEDICINE, cilt.71, ss.174-189, 2016 (SCI-Expanded)
- XXII. **A comparative performance evaluation of various approaches for liver segmentation from SPIR images**  
GÖÇERİ E., Ünlü M. Z., Dicle O.  
Turkish Journal of Electrical Engineering and Computer Sciences, cilt.23, sa.3, ss.741-768, 2015 (SCI-Expanded)
- XXIII. **Fully automated liver segmentation from SPIR image series**  
Goceri E., Guercan M. N., DİCLE O.  
COMPUTERS IN BIOLOGY AND MEDICINE, cilt.53, ss.265-278, 2014 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **An Application for Automated Diagnosis of Facial Dermatological Diseases**  
GÖÇERİ E.  
Izmir Katip Celebi University Faculty of Health Science Journal, cilt.6, sa.3, ss.91-99, 2021 (Hakemli Dergi)
- II. **Fully Automated and Adaptive Intensity Normalization Using Statistical Features for Brain MR Images**  
GÖÇERİ E.  
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, cilt.14, ss.125-134, 2018 (Hakemli Dergi)
- III. **Automated Detection of Facial Disorders (ADFD): a novel approach based-on digital photographs**  
GÖÇERİ E., GÜNAY M.  
COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING-IMAGING AND VISUALIZATION, cilt.6, sa.6, ss.607-617, 2018 (ESCI)
- IV. **Advances in Digital Pathology**  
GÖÇERİ E.  
International Journal of Emerging Trends in Health Sciences, cilt.1, sa.2, ss.49-55, 2017 (Hakemli Dergi)
- V. **MR Kafa Görüntülerinden Otomatik Kafatası, Doku ve Lezyon Bölütlemesi: Olasılıksal ve Kararlı Bir Yaklaşım**  
GÖÇERİ E., GÜNAY M., ŞENOL A. U.  
Süleyman Demirel Üniversitesi Fen Bilimleri Dergisi, cilt.1, sa.1, ss.1, 2017 (Hakemli Dergi)
- VI. **JPEG2000 Standardının Yeni Özelliklerini Destekleyen Bir Görüntü İşleme Uygulaması Geliştirilmesi**  
GÖÇERİ E., YALDIR A.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, cilt.13, sa.3, ss.337-346, 2007 (Hakemli Dergi)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Analysis of Capsule Networks for Image Classification**  
GÖÇERİ E.  
The 15th International Conference on Computer Graphics, Visualization, Computer Vision and Image Processing (CVGCVIP 2021), 21 - 23 Temmuz 2021, ss.53-60
- II. **Capsule Neural Networks in Classification of Skin Lesions**  
GÖÇERİ E.  
The 15th International Conference on Computer Graphics, Visualization, Computer Vision and Image Processing (CVGCVIP 2021), 21 - 23 Temmuz 2021, ss.29-36
- III. **Automated Skin Cancer Detection: Where We Are and The Way to The Future**  
GÖÇERİ E.  
44th International Conference on Telecommunications and Signal Processing (TSP), ELECTR NETWORK, 26 - 28 Temmuz 2021, ss.48-51
- IV. **Image Augmentation for Deep Learning Based Lesion Classification from Skin Images**  
GÖÇERİ E.  
The 4th IEEE International Conference on Image Processing, Applications and Systems (IPAS 2020), Cenova, İtalya, 9 - 11 Aralık 2020, ss.144-148
- V. **Convolutional Neural Network Based Desktop Applications to Classify Dermatological Diseases**  
GÖÇERİ E.  
The 4th IEEE International Conference on Image Processing, Applications and Systems (IPAS 2020), Cenova, İtalya, 9 - 11 Aralık 2020, ss.138-143
- VI. **Comparative Evaluations of CNN Based Networks for Skin Lesion Classification**  
GÖÇERİ E., AKMAN KARAKAŞ A.  
14th International Conference on Computer Graphics, Visualization, Computer Vision and Image Processing (CGVCVIP2020), Zagreb, Hırvatistan, 23 - 25 Temmuz 2020, ss.237-242
- VII. **Impact of Deep Learning and Smartphone Technologies in Dermatology: Automated Diagnosis**  
GÖÇERİ E.  
10th International Conference on Image Processing Theory, Tools and Applications (IPTA), ELECTR NETWORK, 9 - 12 Kasım 2020
- VIII. **Skin Disease Diagnosis from Photographs Using Deep Learning**  
GÖÇERİ E.  
VII. Thematic Conference on Computational Vision and Medical Image Processing (VipIMAGE 2019), Porto, Portekiz, 16 - 18 Ekim 2019, cilt.34, ss.239-246
- IX. **Challenges and Recent Solutions for Image Segmentation in the Era of Deep Learning**  
GÖÇERİ E.  
9th International Conference on Image Processing Theory, Tools and Applications (IPTA), İstanbul, Türkiye, 6 - 09 Kasım 2019
- X. **Analysis of Deep Networks with Residual Blocks and Different Activation Functions: Classification of Skin Diseases**  
GÖÇERİ E.  
9th International Conference on Image Processing Theory, Tools and Applications (IPTA), İstanbul, Türkiye, 6 - 09 Kasım 2019
- XI. **On The Importance of Batch Size for Deep Learning**  
GÖÇERİ E., Gooya A.  
Conf. on Mathematics (ICOMATH2018), An Istanbul Meeting for World Mathematicians, Minisymposium on Approximation Theory Minisymposium on Math Education, İstanbul, Türkiye, 3 - 06 Temmuz 2018, ss.99
- XII. **Comparison of Weighted K-Means Clustering Approaches**  
GÖÇERİ E., Dura E.  
International Conf. on Mathematics (ICOMATH2018), An Istanbul Meeting for World Mathematicians, Minisymposium on Approximation Theory Minisymposium on Math Education, İstanbul, Türkiye, 3 - 06 Temmuz

2018, ss.98

- XIII. **Formulas Behind Deep Learning Success**  
GÖÇERİ E.  
International Conference on Applied Analysis and Mathematical Modeling (ICAAMM2018), İstanbul, Türkiye, 20 - 24 Haziran 2018, ss.156
- XIV. **A Method for Leukocyte Segmentation Using Modified Gram-Schmidt Orthogonalization and Expectation-Maximization**  
GÖÇERİ E.  
International Conference on Applied Analysis and Mathematical Modeling (ICAAMM2018), İstanbul, Türkiye, 20 - 24 Haziran 2018, ss.18
- XV. **Automated Measurement of Changes in Cortical Thickness from MR Images**  
GÖÇERİ E.  
International Conference on Applied Analysis and Mathematical Modeling (ICAAMM2018), İstanbul, Türkiye, 20 - 24 Haziran 2018, ss.78
- XVI. **Biomedical Information Technology: Image Based Computer Aided Diagnosis Systems**  
GÖÇERİ E., Songül C.  
The 7th International Conference on Advanced Technologies (ICAT'18), Antalya, Türkiye, 28 - 30 Nisan 2018, ss.132
- XVII. **Mobile Health Technologies for Patients with Mental Illness**  
GÖÇERİ E., Songül C.  
The 7th International Conference on Advanced Technologies (ICAT'18), Antalya, Türkiye, 28 - 30 Nisan 2018, ss.146
- XVIII. **Adaptive Bias Field Correction: Application on Abdominal MR Images**  
GÖÇERİ E., Dura E., Esteve J. D., GÜNAY M.  
6th ECCOMAS Thematic Conference on Computational Vision and Medical Image Processing (VipIMAGE), Porto, Portekiz, 18 - 20 Ekim 2017, cilt.27, ss.102-110
- XIX. **Deep Learning in Medical Image Analysis: Recent Advances and Future Trends**  
GÖÇERİ E., GOCERİ N.  
Computer Graphics, Visualization, Computer Vision and Image Processing (CGVCVIP2017), Lisbon, Portekiz, 20 - 23 Temmuz 2017, ss.305-310
- XX. **Intensity Normalization in Brain MR Images Using Spatially Varying Distribution Matching**  
GÖÇERİ E.  
11th International Conference on Computer Graphics, Visualization, Computer Vision and Image Processing (CGVCVIP), Lisbon, Portekiz, 21 - 23 Temmuz 2017, ss.300-304
- XXI. **Computer-Based Segmentation, Change Detection and Quantification for Lesions in Multiple Sclerosis**  
GÖÇERİ E., Songul C.  
2017 International Conference on Computer Science and Engineering (UBMK), Antalya, Türkiye, 5 - 08 Ekim 2017, ss.177-182
- XXII. **Automated Detection and Extraction of Skull from MR Head Images: Preliminary Results**  
GÖÇERİ E., Songul C.  
2017 International Conference on Computer Science and Engineering (UBMK), Antalya, Türkiye, 5 - 08 Ekim 2017, ss.171-176
- XXIII. **Artificial neural network based abdominal organ segmentations: A review**  
Goceri E., MARTINEZ E.  
IEEE 14th International Conference on Machine Learning and Applications, ICMLA 2015, Florida, Amerika Birleşik Devletleri, 9 - 11 Aralık 2015, ss.1191-1194
- XXIV. **Automated detection of adenoviral conjunctivitis disease from facial images using machine learning**  
GÜNAY M., KUCUKOGLU I., GÖÇERİ E., DANIŞMAN T., ALTURJMAN F.  
IEEE 14th International Conference on Machine Learning and Applications, ICMLA 2015, Florida, Amerika Birleşik Devletleri, 9 - 11 Aralık 2015, ss.1204-1209
- XXV. **Review on Machine Learning Based Lesion Segmentation Methods from Brain MR Images**

GÖÇERİ E., Dura E., GÜNAY M.

15th IEEE International Conference on Machine Learning and Applications (ICMLA), California, Amerika Birleşik Devletleri, 18 - 20 Aralık 2016, ss.582-587

**XXVI. Machine Learning for Optimum CT-Prediction for qPCR**

GÜNAY M., GÖÇERİ E., Balasubramaniyan R.

15th IEEE International Conference on Machine Learning and Applications (ICMLA), California, Amerika Birleşik Devletleri, 18 - 20 Aralık 2016, ss.588-592

**XXVII. Iteratively learning a liver segmentation using probabilistic atlases: preliminary results**

Domingo J., Dura E., GÖÇERİ E.

15th IEEE International Conference on Machine Learning and Applications (ICMLA), California, Amerika Birleşik Devletleri, 18 - 20 Aralık 2016, ss.593-598

**XXVIII. A Neural Network Based Kidney Segmentation from MR Images**

GÖÇERİ N., GÖÇERİ E.

The 14th IEEE International Conference on Machine Learning and Applications (ICMLA'15), Miami, Amerika Birleşik Devletleri, 9 - 11 Aralık 2015, ss.1195-1198

**XXIX. Automated Detection of Adenoviral Conjunctivitis Disease from Facial Images using Machine Learning**

GÜNAY M., GÖÇERİ E., DANIŞMAN T.

14th IEEE International Conference on Machine Learning and Applications, Miami, Amerika Birleşik Devletleri, 9 - 11 Aralık 2015, ss.1

**XXX. Automated Detection of Facial Disorders (ADFD): A Novel Approach Based-on Digital Photographs**

GÖÇERİ E., GÜNAY M., Alturjman F.

The 28th International Conference of The Jangjeon Mathematical Society, Antalya, Türkiye, 15 - 19 Mayıs 2015, ss.126

**XXXI. Effects of Chosen Scalar Products on Gradient Descent Algorithms**

GÖÇERİ E.

The 28th International Conference of The Jangjeon Mathematical Society (ICJMS 2015), Antalya, Türkiye, 15 - 19 Mayıs 2015, ss.90

**XXXII. A Level Set Method with Sobolev Gradient and Haralick Edge Detection**

GÖÇERİ E., Dura E.

The 9th World Conference on Information Technology (WCIT 2013), Brüksel, Belçika, 26 - 27 Kasım 2013, ss.5

**XXXIII. A Liver Segmentation Method Based on Partial Differential Equation and Signed Pressure Force Function**

GÖÇERİ E., Ünlü M., Güzeliş C., Dicle O.

17th National Biomedical Engineering Meeting Proceedings (BIYOMUT 2012), İstanbul, Türkiye, 3 - 05 Ekim 2012, ss.237-240

**XXXIV. An Automatic Level Set Based Liver Segmentation from MRI Data Sets**

Goceri E., UNLU M. Z., GUZELIS C., DICLE O.

3rd International Conference on Image Processing Theory, Tools and Applications (IPTA), İstanbul, Türkiye, 15 - 18 Ekim 2012, ss.192-197

**XXXV. Application of the Histogram Analysis in Radiation Therapy HART: An Open Source Software System**

Pyakuryal, A., Pokhrel, D., Gopalakrishnan M., Jang S., Jincong L., GÖÇERİ E., Sathiaselan V., Mittal B.

54th American Association of Physicists in Medicine (AAPM) Meeting, Vancouver, Kanada, 31 Temmuz - 04 Ağustos 2011, cilt.38, sa.6, ss.3678-3679

**XXXVI. Automatic Kidney Segmentation Using Gaussian Mixture Model on MRI Sequences**

GÖÇERİ E.

International Conference on Electric and Electronics (EEIC 2011), Nanchang, Çin, 20 - 22 Haziran 2011, ss.23-29

**XXXVII. Expectation Maximization And Gaussian Model Based Segmentation on Histology Slides**

GÖÇERİ E.

The International Symposium on Computing in Informatics and Mathematics (ISCIM 2011), Tirana-Durres, Arnavutluk, 2 - 04 Haziran 2011, ss.649-656

- XXXVIII. **PCA Based Bayesian Approach for Automatic Multiple Sclerosis Lesion Detection**  
GÖÇERİ E.  
The International Symposium on Computing in Informatics and Mathematics (ISCIM 2011), Tirana-Durres, Arnavutluk, 2 - 04 Haziran 2011, ss.687-694
- XXXIX. **B-Spline Based MR and CT Image Registration for Pre-operation of Liver Transplantation**  
GÖÇERİ E.  
The International Congress on Applications and Computer Science, (CAC2010), Singapur, Singapur, 4 - 06 Aralık 2010, ss.952-955
- XL. **Liver Segmentation Techniques in MRI with Performance Analysis of Two Level Set Based Methods and A Novel Segmentation Approach**  
GÖÇERİ E., Ünlü M.  
5th National Biomechanical Congress (with international participation), İzmir, Türkiye, 23 - 25 Eylül 2010, ss.53
- XLI. **Interpolation approaches and spline based resampling for MR images**  
Göçeri E., LOMÉNIE N.  
2010 5th International Symposium on Health Informatics and Bioinformatics, HIBIT 2010, Antalya, Türkiye, 20 - 22 Nisan 2010, ss.137-143
- XLII. **Developing an Image Processing Application on Compression and Filtering of Multidimensional Medical Images**  
GÖÇERİ E., Yaldr K.  
10th Integrated Design and Process Technology (IDPT-2007), Antalya, Türkiye, 3 - 08 Haziran 2007, ss.36-40
- XLIII. **Sustained Image Quality When Performing Image Processing Tehcniques on Wavelet Compressed Medical Images**  
GÖÇERİ E., Yaldr A.  
Second Annual Yök-Suny Collaboration Symposium, Scientific Collaboration For Sustainable Development, Adana, Türkiye, 23 - 25 Mayıs 2007, ss.305-311
- XLIV. **Geliştirilmekte Olan Görüntü Sıkıştırma Standardı JPEG2000 ve Eklenen Yeni Özellikleri**  
GÖÇERİ E., YALDIR A.  
Akademik Bilişim, Kütahya, Türkiye, 31 Ocak - 02 Şubat 2007, ss.67-72
- XLV. **Geliştirilmekte Olan Görüntü Sıkıştırma Standardı JPEG2000 ve Eklenen Yeni Özellikleri. Akademik Bilişim**  
GÖÇERİ E., Yaldr K.  
Akademik Bilişim, Kütahya, Türkiye, 31 Ocak - 02 Şubat 2007, ss.67-72
- XLVI. **Çok Boyutlu Görüntüler için JPEG2000 Standardını Destekleyen Görüntü İşleme Uygulaması**  
GÖÇERİ E., Yaldr K.  
Akademik Bilişim, Kütahya, Türkiye, 31 Ocak - 02 Şubat 2007, ss.63-66

## **Metrikler**

Yayın: 75

Atf (WoS): 677

Atf (Scopus): 1520

H-İndeks (WoS): 15

H-İndeks (Scopus): 26