

## Assoc. Prof. EVGİN GÖÇERİ

### Personal Information

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

ScopusID: 36166929500

Yoksis Researcher ID: 34612

### Education Information

Post Doctorate, Ohio State University, College Of Medicine, Biomedical Informatics, United States Of America 2015 - 2016

Doctorate, Izmir Institute Of Technology, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği Bölümü, Elektronik Ve Haberleşme Programı, Turkey 2007 - 2013

Undergraduate, Ege University, Faculty Of Engineering, Bilgisayar Mühendisliği Bölümü, Turkey 1997 - 2002

### Dissertations

Doctorate, A Comparative Evaluation For Liver Segmentation From SPIR Images And A Novel Level Set Method Using Signed Pressure Force Function, Izmir Institute Of Technology, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Bölümü, 2013

### Research Areas

Biomedical Engineering, Biomedical Image Processing, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Akdeniz University, Faculty of Engineering, Department of Biomedical Engineering, 2018 - Continues

Assistant Professor, Akdeniz University, Faculty of Engineering, Department of Computer Engineering, 2015 - 2018

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

- I. **Vision transformer based classification of gliomas from histopathological images**  
GÖÇERİ E.  
Expert Systems with Applications, vol.241, 2024 (SCI-Expanded)
- II. **Nuclei segmentation using attention aware and adversarial networks**  
GÖÇERİ E.  
Neurocomputing, vol.579, 2024 (SCI-Expanded)
- III. **Exploring data mining and machine learning in gynecologic oncology**

Idlahcen F., Idri A., GÖÇERİ E.

Artificial Intelligence Review, vol.57, no.2, 2024 (SCI-Expanded)

- IV. **Medical image data augmentation: techniques, comparisons and interpretations**  
GÖÇERİ E.  
Artificial Intelligence Review, vol.56, no.11, pp.12561-12605, 2023 (SCI-Expanded)
- V. **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, vol.33, no.5, pp.1727-1744, 2023 (SCI-Expanded)
- VI. **Classification of skin cancer using adjustable and fully convolutional capsule layers**  
GÖÇERİ E.  
Biomedical Signal Processing and Control, vol.85, 2023 (SCI-Expanded)
- VII. **Evaluation of denoising techniques to remove speckle and Gaussian noise from dermoscopy images**  
GÖÇERİ E.  
Computers in Biology and Medicine, vol.152, 2023 (SCI-Expanded)
- VIII. **Diagnosis of skin diseases in the era of deep learning and mobile technology**  
GÖÇERİ E.  
COMPUTERS IN BIOLOGY AND MEDICINE, vol.134, 2021 (SCI-Expanded)
- IX. **Deep learning based classification of facial dermatological disorders**  
GÖÇERİ E.  
COMPUTERS IN BIOLOGY AND MEDICINE, vol.128, 2021 (SCI-Expanded)
- X. **CapsNet topology to classify tumours from brain images and comparative evaluation**  
GÖÇERİ E.  
IET IMAGE PROCESSING, vol.14, no.5, pp.882-889, 2020 (SCI-Expanded)
- XI. **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, vol.35, no.7, 2019 (SCI-Expanded)
- XII. **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, vol.21, no.4, pp.1083-1095, 2018 (SCI-Expanded)
- XIII. **Quantitative validation of anti-PTBP1 antibody for diagnostic neuropathology use: Image analysis approach**  
GÖÇERİ E., Goksel B., Elder J. B., Puduvalli V. K., Otero J. J., Gurcan M. N.  
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN BIOMEDICAL ENGINEERING, vol.33, no.11, 2017 (SCI-Expanded)
- XIV. **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, vol.33, no.4, 2017 (SCI-Expanded)
- XV. **Automated fluorescent microscopic image analysis of PTBP1 expression in glioma**  
Kaya B., GÖÇERİ E., Becker A., Elder B., Puduvalli V., Winter J., Gurcan M., Otero J. J.  
PLOS ONE, vol.12, no.3, 2017 (SCI-Expanded)
- XVI. **Probabilistic liver atlas construction**  
Dura E., Domingo J., Ayala G., Marti-Bonmati L., GÖÇERİ E.  
BIOMEDICAL ENGINEERING ONLINE, vol.16, 2017 (SCI-Expanded)
- XVII. **Automatic labeling of portal and hepatic veins from MR images prior to liver transplantation**  
GÖÇERİ E.

INTERNATIONAL JOURNAL OF COMPUTER ASSISTED RADIOLOGY AND SURGERY, vol.11, no.12, pp.2153-2161, 2016 (SCI-Expanded)

**XVIII. Fully automated liver segmentation using Sobolev gradient-based level set evolution**

GÖÇERİ E.

INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN BIOMEDICAL ENGINEERING, vol.32, no.11, 2016 (SCI-Expanded)

**XIX. Quantification of liver fat: A comprehensive review**

Goceri E., Shah Z. K., Layman R., Jiang X., Gurcan M. N.

COMPUTERS IN BIOLOGY AND MEDICINE, vol.71, pp.174-189, 2016 (SCI-Expanded)

**XX. 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, vol.23, no.3, pp.741-768, 2015 (SCI-Expanded)

**XXI. Fully automated liver segmentation from SPIR image series**

Goceri E., Guercan M. N., DİCLE O.

COMPUTERS IN BIOLOGY AND MEDICINE, vol.53, pp.265-278, 2014 (SCI-Expanded)

## Articles Published in Other Journals

**I. An Application for Automated Diagnosis of Facial Dermatological Diseases**

GÖÇERİ E.

Izmir Katip Celebi University Faculty of Health Science Journal, vol.6, no.3, pp.91-99, 2021 (Peer-Reviewed Journal)

**II. Fully Automated and Adaptive Intensity Normalization Using Statistical Features for Brain MR Images**

GÖÇERİ E.

Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.14, pp.125-134, 2018 (Peer-Reviewed Journal)

**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, vol.6, no.6, pp.607-617, 2018 (ESCI)

**IV. Advances in Digital Pathology**

GÖÇERİ E.

International Journal of Emerging Trends in Health Sciences, vol.1, no.2, pp.49-55, 2017 (Peer-Reviewed Journal)

**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, vol.1, no.1, pp.1, 2017 (Peer-Reviewed Journal)

**VI. JPEG2000 Standardının Yeni Özelliklerini Destekleyen Bir Görüntü İşleme Uygulaması Geliştirilmesi**

GÖÇERİ E., YALDIR A.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.13, no.3, pp.337-346, 2007 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

**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 July 2021, pp.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 July 2021, pp.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 July 2021, pp.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, Italy, 9 - 11 December 2020, pp.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, Italy, 9 - 11 December 2020, pp.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, Croatia, 23 - 25 July 2020, pp.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 November 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, Portugal, 16 - 18 October 2019, vol.34, pp.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, Turkey, 6 - 09 November 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, Turkey, 6 - 09 November 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, Turkey, 3 - 06 July 2018, pp.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, Turkey, 3 - 06 July 2018, pp.98

XIII. **Formulas Behind Deep Learning Success**

GÖÇERİ E.

International Conference on Applied Analysis and Mathematical Modeling (ICAAMM2018), İstanbul, Turkey, 20 - 24 June 2018, pp.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, Turkey, 20 - 24 June 2018, pp.18

XV. **Automated Measurement of Changes in Cortical Thickness from MR Images**

GÖÇERİ E.

International Conference on Applied Analysis and Mathematical Modeling (ICAAMM2018), İstanbul, Turkey, 20 - 24 June 2018, pp.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, Turkey, 28 - 30 April 2018, pp.132

XVII. **Mobile Health Technologies for Patients with Mental Illness**

GÖÇERİ E., Songül C.

The 7th International Conference on Advanced Technologies (ICAT'18), Antalya, Turkey, 28 - 30 April 2018, pp.146

XVIII. **Adaptive Bias Field Correction: Application on Abdominal MR Images**

GÖÇERİ E., Dura E., Esteve J. D., GÜNEY M.

6th ECCOMAS Thematic Conference on Computational Vision and Medical Image Processing (VipIMAGE), Porto, Portugal, 18 - 20 October 2017, vol.27, pp.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, Portugal, 20 - 23 July 2017, pp.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, Portugal, 21 - 23 July 2017, pp.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, Turkey, 5 - 08 October 2017, pp.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, Turkey, 5 - 08 October 2017, pp.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, United States Of America, 9 - 11 December 2015, pp.1191-1194

XXIV. **Automated detection of adenoviral conjunctivitis disease from facial images using machine learning**

GÜNEY M., KUCUKOGLU I., GÖÇERİ E., DANIŞMAN T., ALTURJMAN F.

IEEE 14th International Conference on Machine Learning and Applications, ICMLA 2015, Florida, United States Of America, 9 - 11 December 2015, pp.1204-1209

XXV. **Review on Machine Learning Based Lesion Segmentation Methods from Brain MR Images**

GÖÇERİ E., Dura E., GÜNEY M.

15th IEEE International Conference on Machine Learning and Applications (ICMLA), California, United States Of America, 18 - 20 December 2016, pp.582-587

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

GÜNEY M., GÖÇERİ E., Balasubramaniyan R.

15th IEEE International Conference on Machine Learning and Applications (ICMLA), California, United States Of America, 18 - 20 December 2016, pp.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, United States Of America, 18 - 20 December 2016, pp.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, United States Of America, 9 - 11 December 2015, pp.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, United States Of America, 9 - 11 December 2015, pp.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, Turkey, 15 - 19 May 2015, pp.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, Turkey, 15 - 19 May 2015, pp.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, Belgium, 26 - 27 November 2013, pp.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, Turkey, 3 - 05 October 2012, pp.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, Turkey, 15 - 18 October 2012, pp.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 Physicsts in Medicine (AAPM) Meeting, Vancouver, Canada, 31 July - 04 August 2011, vol.38, no.6, pp.3678-3679
- XXXVI. **Automatic Kidney Segmentation Using Gaussian Mixture Model on MRI Sequences**  
GÖÇERİ E.  
International Conference on Electric and Electronics (EEIC 2011), Nanchang, China, 20 - 22 June 2011, pp.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, Albania, 2 - 04 June 2011, pp.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, Albania, 2 - 04 June 2011, pp.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, Singapore, 4 - 06 December 2010, pp.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, Turkey, 23 - 25 September 2010, pp.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, Turkey, 20 - 22 April 2010, pp.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, Turkey, 3 - 08 June 2007, pp.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, Turkey, 23 - 25 May 2007, pp.305-311
- XLIV. **Geliştirilmekte Olan Görüntü Sıkıştırma Standardı JPEG2000 ve Eklenen Yeni Özellikleri**  
GÖÇERİ E., YALDIR A.  
Akademik Bilişim, Kütahya, Turkey, 31 January - 02 February 2007, pp.67-72
- XLV. **Geliştirilmekte Olan Görüntü Sıkıştırma Standardı JPEG2000 ve Eklenen Yeni Özellikleri. Akademik Bilişim**  
GÖÇERİ E., Yaldr K.  
Akademik Bilişim, Kütahya, Turkey, 31 January - 02 February 2007, pp.67-72
- XLVI. **Çok Boyutlu Görüntüler için JPEG2000 Standardını Destekleyen Görüntü İşleme Uygulaması**  
GÖÇERİ E., Yaldr K.  
Akademik Bilişim, Kütahya, Turkey, 31 January - 02 February 2007, pp.63-66

## Metrics

Publication: 73

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