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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**

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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.

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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 miscroscopic image analysis of PTBP1 expression in glioma**

Kaya B., GÖÇERİ E., Becker A., Elder B., Puduvalli V., Winter J., Gurcan M., Otero J. J.

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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**

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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**
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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**
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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 UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, 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**

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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., GÜNAY 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., GOCERI 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**
GÜNAY 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., GÜNAY 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**
GÜNAY 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., Sathiaseelan 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, (CACS2010), 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., Yaldır K.
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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**
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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., Yaldır 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., Yaldır K.
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