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Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği , Turkey 2015 - Continues Post Graduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği Bölümü, Turkey 2012 - 2015

Under Graduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği Bölümü, Turkey 2008 - 2012

Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Pattern Recognition and Image Processing, Neural Networks, Engineering and Technology

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

- I. **An ensemble of fine-tuned fully convolutional neural networks for pleural effusion cell nuclei segmentation**
BAYKAL KABLAN E., DOĞAN H., ERCİN M. E. , ERSÖZ Ş., EKİNCİ M.
COMPUTERS & ELECTRICAL ENGINEERING, vol.81, 2020 (Journal Indexed in SCI)
- II. **A novel 2D and 3D wide-view imaging approach by controlling optimal range for cytopathological analysis in light microscopic system**
DOĞAN H., BAYKAL KABLAN E., ERCİN M. E. , ERSÖZ Ş., EKİNCİ M.
OPTICS COMMUNICATIONS, vol.430, pp.39-50, 2019 (Journal Indexed in SCI)
- III. **Modern convolutional object detectors for nuclei detection on pleural effusion cytology images**
Baykal E., DOĞAN H., ERCİN M. E. , ERSÖZ Ş., EKİNCİ M.
Multimedia Tools and Applications, 2019 (Journal Indexed in SCI)
- IV. **Transfer learning with pre-trained deep convolutional neural networks for serous cell classification**
Baykal E., DOĞAN H., ERCİN M. E. , ERSÖZ Ş., EKİNCİ M.
Multimedia Tools and Applications, 2019 (Journal Indexed in SCI)
- V. **A novel extended depth of field process based on nonsubsampling shearlet transform by estimating optimal range in microscopic systems**
DOĞAN H., BAYKAL KABLAN E., EKİNCİ M., ERCİN M. E. , ERSÖZ Ş.
OPTICS COMMUNICATIONS, vol.429, pp.88-99, 2018 (Journal Indexed in SCI)
- VI. **Microscopic image stitching for cytopathological analysis**
DOĞAN H., BAYKAL E., EKİNCİ M., ERCİN M. E. , ERSÖZ Ş.
VIRCHOWS ARCHIV, vol.471, 2017 (Journal Indexed in SCI)
- VII. **Automated nuclei detection in pleural effusion based on machine learning**
BAYKAL E., DOĞAN H., EKİNCİ M., ERCİN M. E. , ERSÖZ Ş.
VIRCHOWS ARCHIV, vol.471, 2017 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Derin Konvolüsyonel Nesne Algılayıcı ile Plevral Efüzyon Sitopatolojisinde Otomatik Çekirdek Algılama**
Kilic B., Baykal Kaban E., Doğan H., Ekinci M., Ercin M. E. , Ersöz Ş.
Türkiye Bilişim Vakfı Bilgisayar Bilimleri ve Mühendisliği Dergisi, vol.13, pp.33-42, 2020 (Other Refereed National Journals)
- II. **Sitopatolojik Değerlendirme Süreçleri için Optimum Aralığın Korunmasıyla Yüksek Çözünürlüklü Otomatik Panoramik Görüntüleme**
Doğan H., Baykal Kaban E., Ekinci M., Ercin M. E. , Ersöz Ş.
Türkiye Bilişim Vakfı Bilgisayar Bilimleri ve Mühendisliği Dergisi, vol.11, pp.1-12, 2018 (Other Refereed National Journals)
- III. **Blur Invariant Image Forgery Detection Method Using Local Phase Quantization**
ÜSTÜBİOĞLU B., BAYKAL E., MUZAFFER G., ULUTAŞ G.
Journal of Energy and Power Engineering, vol.10, pp.358-363, 2016 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Stain independent nuclei segmentation of cytopathology images: A case study in pleural effusion Sitopatoloji görüntülerinde boya bağımsız çekirdek segmentasyonu: Plevral efüzyonda bir olgu çalışması**
Kaban E., DOĞAN H., EKİNCİ M., ERCİN M. E. , ERSÖZ Ş.
2019 Medical Technologies Congress, TIPTEKNO 2019, İzmir, Turkey, 3 - 05 October 2019
- II. **Effects of Other Color Spaces on Shape from Focus**
DOĞAN H., Baykal E., ERCİN M. E. , ERSÖZ Ş., EKİNCİ M.
4th International Conference on Computer Science and Engineering, UBMK 2019, Samsun, Turkey, 11 - 15 September 2019, pp.42-46
- III. **Automated Nuclei Detection on Pleural Effusion Cytopathology Images using YOLOv3**
Kilic B., Baykal E., Ekinci M., Dogan H., Ercin M. E. , Ersoz S.
4th International Conference on Computer Science and Engineering, UBMK 2019, Samsun, Turkey, 11 - 15 September 2019, pp.418-422
- IV. **Generation of Optimal Focused 2D and 3D Images for Cytopathological Analysis in Light Microscopic Systems**
DOĞAN H., BAYKAL KABLAN E., EKİNCİ M., ERCİN M. E. , ERSÖZ Ş.
Medical Technologies Congress (TIPTEKNO), İzmir, Turkey, 3 - 05 October 2019, pp.275-278
- V. **Automated nuclei detection in serous effusion cytology with stacked sparse autoencoders Seröz Efüzyon Sitolojisinde Yiğınlanmış Seyrek Oto-Kodlayıcılar ile Otomatik Çekirdek Algılama**
Baykal E., Dogan H., ERCİN M. E. , ERSÖZ Ş., Ekinci M.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- VI. **3D panoramic imaging for cytopathological analysis in light microscopic system**
DOĞAN H., BAYKAL E., EKİNCİ M., ERCİN M. E. , ERSÖZ Ş.
2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- VII. **Image panorama without loss of focusing for microscopic systems**
DOĞAN H., Baykal E., EKİNCİ M.
2nd International Conference on Computer Science and Engineering, UBMK 2017, Antalya, Turkey, 5 - 08 October 2017, pp.135-140
- VIII. **Automated Nuclei Detection in Serous Effusion Cytology based on Machine Learning**
BAYKAL KABLAN E., DOĞAN H., EKİNCİ M., ERCİN M. E. , ERSÖZ Ş.

- 25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- IX. **Determination of Optimum Auto Focusing Function for Cytopathological Assessment Processes**
DOĞAN H., BAYKAL KABLAN E., EKİNCİ M., ERCİN M. E. , ERSÖZ Ş.
Medical Technologies National Congress (TIPTEKNO), Trabzon, Turkey, 12 - 14 October 2017
- X. **Optimal Focusing with Extended Depth of Focus in Microscopic Systems**
DOĞAN H., BAYKAL KABLAN E., EKİNCİ M., ERCİN M. E. , ERSÖZ Ş.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XI. **Automated cell nuclei segmentation in pleural effusion cytology using active appearance model**
Baykal E., DOĞAN H., EKİNCİ M., ERCİN M. E. , ERSÖZ Ş.
17th International Conference on Computer Analysis of Images and Patterns, CAIP 2017, Ystad, Sweden, 22 - 24 August 2017, pp.59-69
- XII. **Image Forgery Detection based on SIFT and k-means plus**
BAYKAL KABLAN E., ÜSTÜBİOĞLU B., ULUTAŞ G.
39th International Conference on Telecommunications and Signal Processing (TSP), Vienna, Austria, 27 - 29 June 2016, pp.474-477
- XIII. **Extraction of Unrestricted Palm Patterns in a 3D Environment and Its Application in Biometrics**
BAYKAL KABLAN E., EKİNCİ M.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1749-1752
- XIV. **Unrestricted Pattern Selection in Contact less Palmprint Identification Systems**
BAYKAL KABLAN E., EKİNCİ M.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1885-1888

Invited Congress and Symposium Activities

IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Attendee, Malatya, Turkey, 2015

IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Attendee, Trabzon, Turkey, 2014

Citations

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