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Education Information

Doctorate, Bogazici University, Institute Of Biomedical Engineering, Biyomedikal Mühendisliği, Turkey 2009 - 2014
Postgraduate, Bahcesehir University, Institute Of Science, Elektrik-Elektronik Mühendisliği, Turkey 2006 - 2009
Undergraduate, Bahcesehir University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği, Turkey 2002 - 2006

Research Areas

Biomedical Engineering, Biosignal Processing, Biosignal Processing, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Biomedical Engineering, 2015 -
Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Deep learning-driven feature engineering for lung disease classification through electrical impedance tomography imaging**
Cansiz B., Kilinc C. U., SERBES G.
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II. **Robust Spike Sorting using Dual Tree Complex Wavelet Transform: Overcoming Traditional Limitations**
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IX. **Sperm morphology analysis by using the fusion of two-stage fine-tuned deep networks**
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X. **Resonance based separation and energy based classification of lung sounds using tunable wavelet transform**
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XI. **Estimation of Parkinson's disease severity using speech features and extreme gradient boosting**
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XIII. **A fully automated hybrid human sperm detection and classification system based on mobile-net and the performance comparison with conventional methods**
Ilhan H. O., Sigirci I., Serbes G., Aydin N.
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XIV. **Automatic directional masking technique for better sperm morphology segmentation and classification analysis**
İlhan H. O., Serbes G., Aydın N.
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XVI. **Wheeze type classification using non-dyadic wavelet transform based optimal energy ratio technique**
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XVIII. **Overcomplete discrete wavelet transform based respiratory sound discrimination with feature and decision level fusion**
Ulukaya S., SERBES G., Kahya Y. P.
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XIX. **Analyzing the effectiveness of vocal features in early telediagnosis of Parkinson's disease**

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XX. **Directional dual-tree complex wavelet packet transforms for processing quadrature signals**

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XXIII. **Pulmonary crackle detection using time-frequency and time-scale analysis**

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I. **Detection of Wheeze Sounds in Respiratory Disorders: A Deep Learning Approach**

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II. **Akciğer Solunum Seslerinin Spektral Öznitelikler ile Sınıflandırılması**

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III. **Code generator for implementing dual tree complex wavelet transform on reconfigurable architectures for mobile applications**

CANBAY F., LEVENT V., Serbes G., UGURDAG H., GOREN S., AYDIN N.

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Books

I. **Medikal Görüntü İşleme ve Makine Öğrenmesi**

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in: Biyomedikal Mühendisliğinin Temelleri, İsmail Devecioğlu, Editor, Nobel Yayın Dağıtım, İstanbul, pp.303-337, 2022

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IV. **Biyomedikal İşaret İşleme**

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Papers Published in Refereed Scientific Meetings

I. **The Effect of Differently Optimized Histogram Stretching Techniques on the Classification Performance of Sperm Morphology**
Eyyubova G., SERBES G., İLHAN H. O.
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II. **FISC-Net: Classification of Auscultation Sounds on an Edge Device**
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III. **Investigating the Effect of Spatial Fusion of Different Color Spaces on Deep Learning-Based Sperm Image Classification Performance Farkli Renk Uzaylarinin Uzamsal Birlesiminin Derin Ogrenme Tabanli Sperm GoruntuSiniflandirma Performansina Etkisinin Incelenmesi**
CEBECİ M., SERBES G., İLHAN H. O.
8th International Conference on Computer Science and Engineering, UBMK 2023, Burdur, Turkey, 13 - 15 September 2023, pp.521-525

IV. **Breast Cancer Detection Using Transformer and BiLSTM Based Ensemble Learning Dönüştürücü ve BiLSTM Tabanli Topluluk Öğrenmesi Kullanilarak Meme Kanseri Tespiti**
Yilmaz R. E., SERBES G.
31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Turkey, 5 - 08 July 2023

V. **The Performance Analysis of Convolutional Neural Networks and Vision Transformers in the Classification of Sperm Morphology Sperm Morfolojisinin Siniflandirilmasinda Evrisimsel Sinir Ag ve Goru Donusturucu Modellerin Performans Analizi**
AKTAŞ A., SERBES G., Osman Ilhan H. O.
8th International Conference on Computer Science and Engineering, UBMK 2023, Burdur, Turkey, 13 - 15 September 2023, pp.330-335

VI. **Wheeze Events Detection Using Convolutional Recurrent Neural Network**
Hakki L., SERBES G.
2023 Innovations in Intelligent Systems and Applications Conference, ASYU 2023, Sivas, Turkey, 11 - 13 October 2023

VII. **Performance Comparison of Oral, Laryngeal and Thoracic Sounds in the Detection of COVID-19 by Employing Machine Learning Techniques Oral, Larengeal ve Torakal Konuşma Seslerinin COVID-19 Tespitindeki Performanslarinin Yapay Öğrenme Yöntemleriyle Karşilaştirilmasi**
Gozuacik N., SERBES G., Kara E., Atas E., Okan Sakar C., Murat Yener H., BÖREKÇİ Ş., KORKMAZER B., KARAALİ R., Kara H., et al.
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022

VIII. **The Effect of Nonlinear Wavelet Transform Based De-noising in Sperm Abnormality Classification**
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2018 3rd International Conference on Computer Science and Engineering (UBMK), Sarajevo, Bosnia and Herzegovina, 20 - 23 September 2018

IX. **The Effects of the Modified Overlapping Group Shrinkage Technique on the Sperm Segmentation in**

the Stained Images

İLHAN H. O., SERBES G., AYDIN N.

2018 41st International Conference on Telecommunications and Signal Processing (TSP), Athens, Greece, 4 - 06 July 2018

X. **Dual Tree Complex Wavelet Transform Based Sperm Abnormality Classification**

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2018 41st International Conference on Telecommunications and Signal Processing (TSP), Athens, Greece, 4 - 06 July 2018

XI. **Short Time Fourier Transform based music genre classification**

ELBİR A., İLHAN H. O., SERBES G., AYDIN N.

2018 Electric Electronics, Computer Science, Biomedical Engineerings'xx Meeting (EBBT), İstanbul, Turkey, 18 - 19 April 2018

XII. **An automated lung sound preprocessing and classification system based onspectral analysis methods**

SERBES G., Ulukaya S., Kahya Y. P.

3rd International Conference on Biomedical and Health Informatics, ICBHI 2017, Thessaloniki, Greece, 18 - 21 November 2017, vol.66, pp.45-49

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39th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2017, Jeju Island, South Korea, 11 - 15 July 2017, pp.2928-2931

XIV. **Resonance Based Pre-processing Method for Eliminating Artifacts in Doppler Ultrasound Signals**

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2017 25TH SIGNAL PROCESSING AND COMMUNICATIONS APPLICATIONS CONFERENCE (SIU), Antalya, Turkey, 15 - 18 May 2017

XV. **Resonance based pre-processing method for eliminating artifacts in Doppler ultrasound signals Doppler Ultrason İşaretlerinde Artifaktlarin Giderilmesi İçin Rezonans Temelli Ön-işleme Yöntemi**

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XVI. **An Adaptive and Automatic Parameter Selection Method based on Rational Dilation Wavelet Transform for Wheeze Type Classification**

ULUKAYA S., SERBES G., KAHYA Y. P.

Proceedings of the 8th International Workshop on Biosignal Interpretation (BSI2016), Osaka, Japan, 01 November 2016, pp.163-166

XVII. **A Lung Sound Classification System based on the Rational Dilation Wavelet Transform**

Ulukaya S., SERBES G., SEN I., Kahya Y. P.

38th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Florida, United States Of America, 16 - 20 August 2016, pp.3745-3748

XVIII. **Impact of Car Arrival/Departure Patterns on EV Parking Lot Energy Storage Capacity**

Guner S., Özdemir A., SERBES G.

International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Beijing, China, 16 - 20 October 2016

XIX. **Resonance based Respiratory Sound Decomposition Aiming at Localization of Crackles in Noisy Measurements**

Ulukaya S., SERBES G., Kahya Y. P.

38th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Florida, United States Of America, 16 - 20 August 2016, pp.3688-3691

XX. **Analysis of Embolic Signals with Directional Dual Tree Rational Dilation Wavelet Transform**

SERBES G., AYDIN N.

38th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Florida,

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XXI. **A Multi-channel Real Time Implementation of Dual Tree Complex Wavelet Transform in Field Programmable Gate Arrays**
CANBAY F., Levent V. E., SERBES G., Ugurdag H. F., Goren S., AYDIN N.
14th Mediterranean Conference on Medical and Biological Engineering and Computing (MEDICON), Paphos, CYPRUS, 31 March - 02 April 2016, vol.57, pp.114-118

XXII. **An area efficient real time implementation of dual tree complex wavelet transform in field programmable gate arrays**
CANBAY F., Levent V. E., SERBES G., Ugurdag H. F., Goren S., AYDIN N.
15th IEEE International Conference on Bioinformatics and Bioengineering, BIBE 2015, Belgrade, Serbia And Montenegro, 2 - 04 November 2015

XXIII. **A micro emboli vs non-emboli classification system based on the directional dual tree rational dilation wavelet transform**
SERBES G., Sakar B. E., AYDIN N.
15th IEEE International Conference on Bioinformatics and Bioengineering, BIBE 2015, Belgrade, Serbia And Montenegro, 2 - 04 November 2015

XXIV. **Field Programmable Gate Arrays Implementation of Dual Tree Complex Wavelet Transform**
CANBAY F., Levent V. E., SERBES G., Goren S., AYDIN N.
37th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Milan, Italy, 25 - 29 August 2015, pp.6026-6029

XXV. **Directional Dual-Tree Rational-Dilation Complex Wavelet Transform**
Serbes G., Gulcur H. O., AYDIN N.
36th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Illinois, United States Of America, 26 - 30 August 2014, pp.1465-1468

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Serbes G., AYDIN N., Gulcur H.
International Conference on Health Informatics, ICHI 2013, Vilamoura, Portugal, 7 - 09 November 2013, vol.42, pp.9-12

XXVII. **Symmetrical Directional Dual-Tree Complex Wavelet Packet Transform**
Serbes G., Gulcur H. O., AYDIN N.
36th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Illinois, United States Of America, 26 - 30 August 2014, pp.820-823

XXVIII. **An Emboli Detection System Based on Dual Tree Complex Wavelet Transform**
Serbes G., Sakar B. E., AYDIN N., Gulcur H.
13th Mediterranean Conference on Medical and Biological Engineering and Computing 2013, MEDICON 2013, Sevilla, Spain, 25 - 28 September 2013, vol.41, pp.819-822

XXIX. **Directional Dual-Tree Complex Wavelet Packet Transform**
Serbes G., AYDIN N., Gulcur H. O.
35th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Osaka, Japan, 3 - 07 July 2013, pp.3046-3049

XXX. **Embolic Doppler ultrasound signal detection using modified dual tree complex wavelet transform**
Serbes G., AYDIN N.
IEEE-EMBS International Conference on Biomedical and Health Informatics, BHI 2012. In Conj. with the 8th Int. Symp.on Medical Devices and Biosensors and the 7th Int. Symp. on Biomedical and Health Engineering, Hong Kong and Shenzhen, China, 2 - 07 January 2012, pp.945-947

XXXI. **Extracellular spike detection with resonance based signal decomposition Rezonans esasli işaret ayriştirmasi kullanilarak hücre dişi sinirsel iğnecik tespiti**
Serbes G., Kocatürk M., Gülçür H. Ö., AYDIN N.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Turkey, 18 - 20 April 2012

XXXII.   **Pulmonary crackle detection using time-frequency analysis Zaman-frekans analizi kullanarak pulmoner çitirti tespiti**
Serbes G., Şakar C. O., Kahya Y., AYDIN N.
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XXXIII.   **Effect of different window and wavelet types on the performance of a novel crackle detection algorithm**
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5th International Conference on Convergence and Hybrid Information Technology, ICHIT 2011, Daejeon, South Korea, 22 - 24 September 2011, pp.575-581

XXXIV.   **Denoising embolic doppler signals using modified complex discrete wavelet transform Embolik doppler işaretlerinin modifiye edilmiş karmaşik ayrik dalgacik dönüş ümü ile gürültüden arindirilmasi**
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2011 IEEE 19th Signal Processing and Communications Applications Conference, SIU 2011, Antalya, Turkey, 20 - 22 April 2011, pp.566-569

XXXV.   **Denoising embolic doppler signals using modified complex discrete wavelet transform**
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2011 IEEE 19th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 20 - 22 April 2011

XXXVI.   **Symmetrical Modified Dual Tree Complex Wavelet Transform for Processing Quadrature Doppler Ultrasound Signals**
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33rd Annual International Conference of the IEEE Engineering-in-Medicine-and-Biology-Society (EMBS), Massachusetts, United States Of America, 30 August - 03 September 2011, pp.4816-4819

XXXVII.   **Feature Extraction using Time-Frequency/Scale Analysis and Ensemble of Feature Sets for Crackle Detection**
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XXXVIII.   **Denoising performance of modified dual tree complex wavelet transform**
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10th International Conference on Information Technology and Applications in Biomedicine: Emerging Technologies for Patient Specific Healthcare, ITAB 2010, Corfu, Greece, 2 - 05 November 2010

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XL.   **A Complex Discrete Wavelet Transform for Processing Quadrature Doppler Ultrasound Signals**
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XLI.   **A New Wavelet Transform Method for Processing Doppler Signals**
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Supported Projects

GÜNAY O., ERSOY Ş., CANTÜRK İ., SERBES G., Project Supported by Higher Education Institutions, Kuzey Anadolu Fay Hattının İstanbulAvcılar Segmenti Civarında Radon Gaz Konsantrasyonları ile Sismik Aktiviteler Arasındaki İlişkinin

Yapay Zeka İle Belirlenmesi, 2023 - Continues

Günay O., Serbes G., İçhedef M., Cantürk İ., Akkurt İ., Ersoy Ş., Yalçın C., Saç M., Taşköprü C., TUBITAK Project, Kuzey Anadolu Fay Zonunun İstanbul-Adalar Segmentindeki Anadolu ve Avrasya Levhalarında Radon Gaz Konsantrasyonları ile Sismik Aktiviteler Arasındaki İlişkinin Yapay Zeka ile Modellenmesi, 2023 - 2026

Serbes G., Cansiz B., Kilinc C. U., TUBITAK Project, Ayarlanabilir Q Faktörü Dalgacık Dönüşümü Alt Bant Zaman Frekans Analizi ile EEG İmajiner Motor Kontrol Verilerinin Hibrit Evrişim Katmanlı Makine Öğrenmesi Yöntemi Kullanılarak Sınıflandırılması, 2024 - 2025

Ekşi Altan M., SERBES G., TUBITAK Project, Derin Öğrenme Tabanlı Yöntemler Ile Kişiye Özel Kraniyal İmplantlar Için Tasarım Sürecinin Geliştirilmesi Ve 3boyutlu Yazıcıda Üretimi, 2024 - 2025

Ilhan H. O., Serbes G., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Cep Telefonu Tabanlı Sperm Hareket Analiz ve Raporlama Sistemi, 2023 - 2025

Serbes G., Kulakoğlu E., Aydogan Y., Coskun H., TUBITAK Project, EMG Sinyallerinin Gömülü Mikrokontrolcü Sistemde Yapay Zeka ile Sınıflandırılmasıyla Biyonik Kol Kontrolü, 2023 - 2024

Serbes G., Şencan Ö. M., Alhajyounis A., Bulut B., TUBITAK Project, Gömülü Sistem ile Bütünleşmiş Yüksek Hassasiyetli ve Yapay Zeka Tabanlı El-Parmak Hareketi Sınıflandırıcısı, 2023 - 2024

Serbes G., İlhan H. O., Aydın N., TUBITAK Project, Deep Learning Based Computer Aided System Design for Sperm Morphology Analysis, 2022 - 2024

Serbes G., Mutlu E., Hüseyin V., TUBITAK Project, Tiny Machine Learning Based Digital Stethoscope Design, 2022 - 2023

Serbes G., Sakar C. O., TUBITAK Project, Parkinson Hastalığı Tetkiklerinde Kortikal Motor Ve Algı Sistemi Ölçümlerinin Makine Öğrenmesi Yöntemleri Ile Birleştirilmesi, 2016 - 2019

Metrics

Publication: 74
Citation (WoS): 487
Citation (Scopus): 1270
H-Index (WoS): 12
H-Index (Scopus): 15

Non Academic Experience

Bahçeşehir Üniversitesi, Araştırma Görevlisi