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Eğitim Bilgileri

Doktora, Leicester University, Faculty Of Medicine, Medical Physics, İngiltere 1990 - 1994

Yüksek Lisans, Yıldız Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik, Türkiye 1985 - 1987

Lisans, Yıldız Üniversitesi, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, Türkiye 1980 - 1984

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Computerized Graft Monitoring, University Of Leicester, School Of Medicine, Medical Physics, 1994

Yüksek Lisans, Design and implementation of data-acquisition system for IBM-PC, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Anabilim Dalı, 1987

Araştırma Alanları

Bilgi Sistemleri, Haberleşme ve Kontrol Mühendisliği, Sinyal İşleme, Bilgisayar Bilimleri, Biyoenformatik, Biyomedikal Mühendisliği, Elektrik-Elektronik Mühendisliği, Elektronik, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof.Dr., Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Bilgisayar Mühendisliği, 2009 - Devam Ediyor

Prof.Dr., Bahçeşehir Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2006 - 2009

Doç.Dr., Bahçeşehir Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2004 - 2006

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **Automatic directional masking technique for better sperm morphology segmentation and classification analysis**
İLHAN H. O. , SERBES G., AYDIN N.
Electronics Letters, cilt.55, ss.256-258, 2019
- **The Implementation of Optimization Methods for Contrast Enhancement**
ELBİR A., İLHAN H. O. , AYDIN N.
COMPUTER SYSTEMS SCIENCE AND ENGINEERING, cilt.34, no.2, ss.1-9, 2019
- **Markovian encoding models in human splice site recognition using SVM**

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- **A novel data acquisition and analyzing approach to spermiogram tests**

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- **Dynamic programming-based multi-vehicle longitudinal trajectory optimization with simplified car following models**

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- **Binary black hole algorithm for feature selection and classification on biological data**

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- **Meta-analysis of miRNA expression profiles for prostate cancer recurrence following radical prostatectomy**

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- **A Meta-Analysis: Identification of Common Mir-145 Target Genes that have Similar Behavior in Different GEO Datasets**

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

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- **Comprehensive review of association estimators for the inference of gene networks**

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TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.24, ss.695-750, 2016

- **An emboli detection system based on Dual Tree Complex Wavelet Transform and ensemble learning**

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APPLIED SOFT COMPUTING, cilt.37, ss.87-94, 2015

- **A comprehensive comparison of association estimators for gene network inference algorithms**

KURT Z., AYDIN N., Altay G.

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- **Combining multiple views: Case studies on protein and arrhythmia features**

Sakar C. O. , Kursun O., Seker H., Gurgen F., AYDIN N., FAVOROV O.

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

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Serbes G., AYDIN N.

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 - **Directional wavelet transform in the context of complex quadrature Doppler signals**
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- **Kurdish Recognition System Digit**
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- **Splice site identification in human genome using random forest**
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- **Assessment of Similarity Rates of Liver Images Using Geometric Transformations**
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- **CONTROL OF AIR CONDITIONING WITH FUZZY LOGIC CONTROLLER DESIGN FOR SMART HOME SYSTEMS**
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- **Processing of Quadrature Doppler Ultrasound Signals-An Engineering Perspective of Complex Analysis-**
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- **Music Genre Classification and Recommendation by Using Machine Learning and Deep Learning**
ELBİR A., AYDIN N.
Akıllı Sistemlerde Yenilikler Ve Uygulamaları Konferansı 2018, Adana, Türkiye, 04 Ekim 2018, ss.1-5
- **The Effect of Nonlinear Wavelet Transform Based De-noising in Sperm Abnormality Classification**
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3rd International Conference on Computer Sciences and Engineering, Saray Bosna, Bosna-Hersek, 20 Eylül 2018, ss.1-5
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İLHAN H. O. , SERBES G., AYDIN N.
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- **Dual Tree Complex Wavelet Transform Based Sperm Abnormality Classification**
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41th International Conference on Telecommunications and Signal Processing (TSP), Atina, Yunanistan, 04 Temmuz 2018, ss.1
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ELBİR A., İLHAN H. O. , AYDIN N.
Electric Electronics, Computer Science, Biomedical Engineerings' Meeting (EBBT), İstanbul, Türkiye, 18 Nisan 2018, ss.1
- **Short Time Fourier Transform Based Music Genre Classification**
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- **Computer aided motile sperm counting** Bilgisayar Destekli Hareketli Sperm Sayımı
İLHAN H. O. , AYDIN N.

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- **Biomedical signal processing - An overview and recent advances**

AYDIN N.

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- **Object Detection on Deformable Surfaces using Local Feature Sets**

KALELİ F., AYDIN N.

International Conference on Power, Control, Signals and Instrumentation, Chennai, Hindistan, 21 - 22 Eylül 2017

- **A Microcontroller Based System for Measuring the Central Neural System Response**

KAZMA C., AYDIN N.

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- **The Contribution of DSP Integration to ARM Cores in SBCs for the Video Decoding Process**

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- **Frequency Difference based DNA Encoding Methods in Human Splice Site Recognition**

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- **Copying Case Detection with Data Mining**

TARHAN H. H. , AYDIN N.

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Electric Electronics, Computer Science, Biomedical Engineerings Meeting, EBBT 2016, İstanbul, Türkiye, 26 - 27 Nisan 2016

- **A Novel Method for Splice Sites Prediction Using Sequence Component and Hidden Markov Model**

Pashaei E., YILMAZ A., Ozen M., AYDIN N.

38th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Florida, Amerika Birleşik Devletleri, 16 - 20 Ağustos 2016, ss.3076-3079

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Pashaei E., YILMAZ A., Aydini N.

6th International Conference on Computer and Knowledge Engineering (ICCKE), Mashhad, İran, 20 - 21 Ekim 2016, ss.200-204

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3rd IEEE EMBS International Conference on Biomedical and Health Informatics (IEEE BHI), Nevada, Amerika Birleşik Devletleri, 24 - 27 Şubat 2016, ss.300-303

- **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.

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- **Gene Selection and Classification Approach for Microarray Data based on Random Forest Ranking and BBHA**

PASHAEI E., Ozen M., AYDIN N.

3rd IEEE EMBS International Conference on Biomedical and Health Informatics (IEEE BHI), Nevada, Amerika Birleşik Devletleri, 24 - 27 Şubat 2016, ss.308-311

- **Biomarker Discovery based on BBHA and AdaboostM1 on Microarray Data for Cancer Classification**

PASHAEI E., Ozen M., AYDIN N.

38th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Florida, Amerika Birleşik Devletleri, 16 - 20 Ağustos 2016, ss.3080-3083

- **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, Amerika Birleşik Devletleri, 16 - 20 Ağustos 2016, ss.3821-3824

- **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, Sırbistan Ve Karadağ, 2 - 04 Kasım 2015

- **An application of black hole algorithm and decision tree for medical problem**

Pashaei E., ÖZEN M., AYDIN N.

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- **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.

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- **A novel gene selection algorithm for cancer identification based on random forest and particle swarm optimization**

Pashaei E., Ozen M., AYDIN N.

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- **Field Programmable Gate Arrays Implementation of Dual Tree Complex Wavelet Transform**

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- **Improving Medical Diagnosis Reliability Using Boosted C5.0 Decision Tree empowered by Particle Swarm Optimization**

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- **Directional Dual-Tree Rational-Dilation Complex Wavelet Transform**

Serbes G., Gulcur H. O. , AYDIN N.

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- **Symmetrical Directional Dual-Tree Complex Wavelet Packet Transform**

Serbes G., Gulcur H. O. , AYDIN N.

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- **Feature Extraction using Time-Frequency/Scale Analysis and Ensemble of Feature Sets for Crackle Detection**

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- **Variable optimisation of medical image data by the learning Bayesian Network reasoning**

Orun A. B. , Aydin N.

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- **Parallel interacting multiview learning: An application to prediction of protein sub-nuclear location**
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- **A novel information-theoretic clustering algorithm for robust, unsupervised classification**
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 Karahoca A., Karahoca D., Aydm N.
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Atrıflar

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