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International Researcher IDs

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Education Information

Doctorate, University of Leicester, School of medicine, Medical Physics, United Kingdom 1990 - 1994

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Elektronik ve Haberleşme,
Turkey 1985 - 1987

Undergraduate, Yıldız Technical University, Faculty Of Electrical & Electronics, Electronics And Communication
Engineering, Turkey 1980 - 1984

Foreign Languages

English, C1 Advanced

Dissertations

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

Postgraduate, Design and implementation of data-acquisition system for IBM-PC, Yıldız Teknik Üniversitesi, Graduate
School of Natural and Applied Sciences, Elektronik Anabilim Dalı, 1987

Research Areas

Information Systems, Communication and Control Engineering, Signal Processing, Computer Sciences, bioinformatics,
Biomedical Engineering, Electrical and Electronics Engineering, Electronic, Engineering and Technology

Academic Titles / Tasks

Professor, Yıldız Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2009 - Continues

Professor, Bahcesehir University, Faculty Of Engineering, Bilgisayar Mühendisliği, 2006 - 2009

Associate Professor, Bahcesehir University, Faculty Of Engineering, Bilgisayar Mühendisliği, 2004 - 2006

Advancing Researches

- Aydın N., Dynamic programming-based multi-vehicle longitudinal trajectory optimization, Doctorate, C.AVCI(Student), 2018
- Aydın N., A system implementation for analyzing and tracking motile objects in biomedical images, Doctorate, H.OSMAN(Student), 2017
- Aydın N., Bir kurumsal kaynak planlama yazılımı ve akıllı karar destek sistemi araçlarının geliştirilmesi, Doctorate, H.HAKAN(Student), 2017
- Aydın N., Sürekli dalgalı doppler etkili kan akışı izleme sistemi, Postgraduate, C.FIRAT(Student), 1996

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Wavelet Scattering Transform based Doppler signal classification**
Lone A. W., AYDIN N.
Computers in Biology and Medicine, vol.167, 2023 (SCI-Expanded)
- II. **The Evaluation of Nature-Inspired Optimization Techniques for Contrast Enhancement in Images: A Novel Software Tool**
İLHAN H. O., ELBİR A., SERBES G., AYDIN N.
Traitement du Signal, vol.40, no.4, pp.1305-1318, 2023 (SCI-Expanded)
- III. **Detection of sperm cells by single-stage and two-stage deep object detectors**
Yüzkat M., İlhan H. O., Aydın N.
Biomedical Signal Processing and Control, vol.83, 2023 (SCI-Expanded)
- IV. **Surgical Phase Recognition: From Public Datasets to Real-World Data**
Kirtac K., AYDIN N., Lavanchy J. L., Beldi G., Smit M., Woods M. S., Aspart F.
APPLIED SCIENCES-BASEL, vol.12, no.17, 2022 (SCI-Expanded)
- V. **Decision and feature level fusion of deep features extracted from public COVID-19 data-sets**
İlhan H. O., Serbes G., Aydın N.
APPLIED INTELLIGENCE, vol.52, no.8, pp.8551-8571, 2022 (SCI-Expanded)
- VI. **Tuning hyperparameters of machine learning algorithms and deep neural networks using metaheuristics: A bioinformatics study on biomedical and biological cases**
Nematzadeh S., Kiani F., Torkamanian-Afshar M., AYDIN N.
COMPUTATIONAL BIOLOGY AND CHEMISTRY, vol.97, 2022 (SCI-Expanded)
- VII. **Emboli detection using a wrapper-based feature selection algorithm with multiple classifiers**
Sakar B. E., SERBES G., AYDIN N.
Biomedical Signal Processing and Control, vol.71, 2022 (SCI-Expanded)
- VIII. **Design and implementation of a low cost and portable tactile stimulator br**
Kazma C., Levent V. E., ÇARDAK M., AYDIN N.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.30, no.6, pp.2398-2417, 2022 (SCI-Expanded)
- IX. **Sperm Motility Analysis by using Recursive Kalman Filters with the smartphone based data acquisition and reporting approach**
İlhan H. O., Yüzkat M., Aydın N.
EXPERT SYSTEMS WITH APPLICATIONS, vol.186, 2021 (SCI-Expanded)
- X. **Multi-model CNN fusion for sperm morphology analysis**
YÜZKAT M., İLHAN H. O., AYDIN N.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.137, 2021 (SCI-Expanded)
- XI. **High-throughput analysis of the interactions between viral proteins and host cell RNAs**
Lanjanian H., Nematzadeh S., Hosseini S., Torkamanian-Afshar M., Kiani F., Moazzam-Jazi M., AYDIN N., Masoudi-Nejad A.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.135, 2021 (SCI-Expanded)
- XII. **Automated sperm morphology analysis approach using a directional masking technique**
İLHAN H. O., SERBES G., AYDIN N.

Computers in Biology and Medicine, vol.122, 2020 (SCI-Expanded)

- XIII. **Music genre classification and music recommendation by using deep learning**
ELBİR A., Aydın N.
ELECTRONICS LETTERS, vol.56, no.12, pp.627-629, 2020 (SCI-Expanded)
- XIV. **A fully automated hybrid human sperm detection and classification system based on mobile-net and the performance comparison with conventional methods**
İlhan H. O., Sigirci I., Serbes G., Aydın N.
MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol.58, no.5, pp.1047-1068, 2020 (SCI-Expanded)
- XV. **Smartphone based sperm counting-an alternative way to the visual assessment technique in sperm concentration analysis**
İLHAN H. O., AYDIN N.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.79, pp.6409-6435, 2020 (SCI-Expanded)
- XVI. **An Optimal Feature Parameter Set Based on Gated Recurrent Unit Recurrent Neural Networks for Speech Segment Detection**
Batur Dinler O., AYDIN N.
APPLIED SCIENCES-BASEL, vol.10, no.4, 2020 (SCI-Expanded)
- XVII. **Gene selection using hybrid binary black hole algorithm and modified binary particle swarm optimization**
Pashaer E., Pashaei E., Aydın N.
GENOMICS, vol.111, pp.669-686, 2019 (SCI-Expanded)
- XVIII. **Automatic directional masking technique for better sperm morphology segmentation and classification analysis**
İlhan H. O., Serbes G., Aydın N.
ELECTRONICS LETTERS, vol.55, no.5, pp.256-257, 2019 (SCI-Expanded)
- XIX. **The implementation of optimization methods for contrast enhancement**
Elbir A., İlhan H. O., Aydın N.
COMPUTER SYSTEMS SCIENCE AND ENGINEERING, vol.34, no.2, pp.101-107, 2019 (SCI-Expanded)
- XX. **Markovian encoding models in human splice site recognition using SVM**
Pashaei E., Aydın N.
Computational Biology and Chemistry, vol.73, pp.159-170, 2018 (SCI-Expanded)
- XXI. **A novel data acquisition and analyzing approach to spermiogram tests**
İLHAN H. O., AYDIN N.
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.41, pp.129-139, 2018 (SCI-Expanded)
- XXII. **Dynamic programming-based multi-vehicle longitudinal trajectory optimization with simplified car following models**
Wei Y., Avci C., Liu J., Belezamo B., AYDIN N., Li P., Zhou X.
Transportation Research Part B: Methodological, vol.106, pp.102-129, 2017 (SCI-Expanded)
- XXIII. **Binary black hole algorithm for feature selection and classification on biological data**
PASHAEI E., AYDIN N.
APPLIED SOFT COMPUTING, vol.56, pp.94-106, 2017 (SCI-Expanded)
- XXIV. **Meta-analysis of miRNA expression profiles for prostate cancer recurrence following radical prostatectomy**
Pashaei E., Pashaei E., Ahmady M., Özen M., AYDIN N.
PLOS ONE, vol.12, no.6, 2017 (SCI-Expanded)
- XXV. **A Meta-Analysis: Identification of Common Mir-145 Target Genes that have Similar Behavior in Different GEO Datasets**
PASHAEI E., Guzel E., Ozgurses M. E., Demirel G., AYDIN N., Ozen M.
PLOS ONE, vol.11, no.9, 2016 (SCI-Expanded)
- XXVI. **Directional dual-tree complex wavelet packet transforms for processing quadrature signals**
Serbes G., Gulcur H. O., AYDIN N.
MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol.54, pp.295-313, 2016 (SCI-Expanded)

- XXVII. **Comprehensive review of association estimators for the inference of gene networks**
Kurt Z., Aydın N., Altay G.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, pp.695-750, 2016 (SCI-Expanded)
- XXVIII. **An emboli detection system based on Dual Tree Complex Wavelet Transform and ensemble learning**
SERBES G., Sakar B. E., Gulcur H. O., AYDIN N.
APPLIED SOFT COMPUTING, vol.37, pp.87-94, 2015 (SCI-Expanded)
- XXIX. **A comprehensive comparison of association estimators for gene network inference algorithms**
Kurt Z., Aydın N., Altay G.
BIOINFORMATICS, vol.30, pp.2142-2149, 2014 (SCI-Expanded)
- XXX. **Combining multiple views: Case studies on protein and arrhythmia features**
Sakar C. O., Kursun O., Seker H., Gurgun F., AYDIN N., FAVOROV O.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.28, pp.174-180, 2014 (SCI-Expanded)
- XXXI. **Denoising performance of modified dual-tree complex wavelet transform for processing quadrature embolic Doppler signals**
Serbes G., Aydın N.
MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol.52, no.1, pp.29-43, 2014 (SCI-Expanded)
- XXXII. **Pulmonary crackle detection using time-frequency and time-scale analysis**
Serbes G., Sakar C. O., Kahya Y. P., AYDIN N.
DIGITAL SIGNAL PROCESSING, vol.23, no.3, pp.1012-1021, 2013 (SCI-Expanded)
- XXXIII. **Modified dual tree complex wavelet transform for processing quadrature signals**
Serbes G., AYDIN N.
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.6, no.3, pp.301-306, 2011 (SCI-Expanded)
- XXXIV. **Using covariates for improving the minimum Redundancy Maximum Relevance feature selection method**
Kursun O., Sakar C. O., Favorov O., AYDIN N., Gurgun F.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.18, no.6, pp.975-987, 2010 (SCI-Expanded)
- XXXV. **Signed higher-radix full-adder algorithm and implementation with current-mode multi-valued logic circuits**
Temel T., Morgul A., Aydın N.
IEE Proceedings: Circuits, Devices and Systems, vol.153, no.5, pp.489-496, 2006 (SCI-Expanded)
- XXXVI. **A direct-sequence spread-spectrum communication system for integrated sensor microsystems**
Aydın N., ARSLAN T., CUMMING D.
IEEE TRANSACTIONS ON INFORMATION TECHNOLOGY IN BIOMEDICINE, vol.9, no.1, pp.4-12, 2005 (SCI-Expanded)
- XXXVII. **Embolic Doppler ultrasound signal detection using discrete wavelet transform**
Aydın N., MARVASTI F., MARKUS H.
IEEE TRANSACTIONS ON INFORMATION TECHNOLOGY IN BIOMEDICINE, vol.8, no.2, pp.182-190, 2004 (SCI-Expanded)
- XXXVIII. **Compensatory fuzzy neural networks-based intelligent detection of abnormal neonatal cerebral Doppler ultrasound waveforms**
SEKER H., EVANS D., Aydın N., YAZGAN E.
IEEE TRANSACTIONS ON INFORMATION TECHNOLOGY IN BIOMEDICINE, vol.5, no.3, pp.187-194, 2001 (SCI-Expanded)
- XXXIX. **Time-scale analysis of quadrature Doppler ultrasound signals**
Aydın N., MARKUS H.
IEE PROCEEDINGS-SCIENCE MEASUREMENT AND TECHNOLOGY, vol.148, no.1, pp.15-22, 2001 (SCI-Expanded)
- XL. **Directional wavelet transform in the context of complex quadrature Doppler signals**
Aydın N., MARKUS H.
IEEE SIGNAL PROCESSING LETTERS, vol.7, no.10, pp.278-280, 2000 (SCI-Expanded)
- XLI. **The use of the wavelet transform to describe embolic signals**

Aydin N., PADAYACHEE S., MARKUS H.

ULTRASOUND IN MEDICINE AND BIOLOGY, vol.25, no.6, pp.953-958, 1999 (SCI-Expanded)

XLII. IMPLEMENTATION OF DIRECTIONAL DOPPLER TECHNIQUES USING A DIGITAL SIGNAL PROCESSOR

AYDIN N., EVANS D.

MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol.32, no.4, 1994 (SCI-Expanded)

XLIII. QUADRATURE-TO-DIRECTIONAL FORMAT CONVERSION OF DOPPLER SIGNALS USING DIGITAL METHODS

AYDIN N., FAN L., EVANS D.

PHYSIOLOGICAL MEASUREMENT, vol.15, no.2, pp.181-199, 1994 (SCI-Expanded)

Articles Published in Other Journals

I. Effects of Color Space Transformations on Classification Performance of Sperm Morphology

Yüzkat M., İlhan H. O., Aydın N.

European Journal of Science and Technology, vol.29, pp.70-75, 2021 (Peer-Reviewed Journal)

II. EXTRACTION OF THE ACOUSTIC FEATURES OF SEMI-VOWELS IN THE KURDISH LANGUAGE

BATUR Ö., AYDIN N.

The Online Journal of Science and Technology, vol.8, 2018 (Peer-Reviewed Journal)

III. Kurdish Recognition System Digit

BATUR Ö., AYDIN N.

The Online Journal of Science and Technology, vol.8, pp.101-105, 2018 (Peer-Reviewed Journal)

IV. Splice site identification in human genome using random forest

Pashaei E., Özen M., AYDIN N.

Health and Technology, vol.7, no.1, pp.141-152, 2017 (Scopus)

V. Assessment of similarities between liver images to each other using scaling, rotation and translation geometrical operations

TAPKIN T. P., OSMAN O., Ergin T., Teomete U., Dandin Ö., AYDIN N.

Istanbul University - Journal of Electrical and Electronics Engineering, vol.17, pp.3101-3106, 2017 (ESCI)

VI. Assessment of Similarity Rates of Liver Images Using Geometric Transformations

Tapkın T., Osman ., Ergin T., Teomete U., Dandin Ö., AYDIN N.

Istanbul University - Journal of Electrical & Electronics Engineering (IU - JEEE), vol.17, no.1, pp.3113--3119, 2017 (Peer-Reviewed Journal)

VII. 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.

Healthcare Technology Letters, vol.3, no.3, pp.184-188, 2016 (ESCI)

VIII. CONTROL OF AIR CONDITIONING WITH FUZZY LOGIC CONTROLLER DESIGN FOR SMART HOME SYSTEMS

ELALMIŞ N., GÖRGÜN H., AYDIN N.

Sigma Journal of Engineering and Natural Sciences, vol.33, no.3, pp.439-463, 2015 (ESCI)

IX. CISAPS: Complex informational spectrum for the analysis of protein sequences

Chrysostomou C., Seker H., AYDIN N.

Advances in Bioinformatics, vol.2015, 2015 (Scopus)

X. Kaleidomaps a new technique for the visualization of multivariate time series

BALE K., CHAPMAN P., BARRACLOUGH N., PURDY J., AYDIN N., DARK P.

Information Visualization, pp.155-167, 2007 (Scopus)

XI. Wavelet analysis of quadrature Doppler ultrasound signals

Aydin N., Markus H.

IEE Conference Publication, no.476, pp.251-256, 2000 (Scopus)

XII. Optimisation of processing parameters for the analysis and detection of embolic signals

AYDIN N., MARKUS H.

European Journal of Ultrasound, pp.69-79, 2000 (Scopus)

XIII. A computerised arterial graft monitoring system Journal of Vascular Investigation

AYDIN N., EVANS D.

Journal of Vascular Investigation, pp.68-74, 1995 (Peer-Reviewed Journal)

XIV. The performance of three maximum frequency envelope detection algorithms for Doppler signals

MORAES R., AYDIN N., EVANS D. H.

Journal of Vascular Investigation, pp.126-134, 1995 (Peer-Reviewed Journal)

Books & Book Chapters

I. Hybrid Krill Herd Algorithm with Particle Swarm Optimization for Image Enhancement

Pashaei E., Pashaei E., Aydın N.

in: Intelligent and Fuzzy Techniques: Smart and Innovative Solutions. INFUS 2020. Advances in Intelligent Systems and Computing, vol 1197, Kahraman C., Cevik Onar S., Oztaysi B., Sari I., Cebi S., Tolga A., Editor, Springer, London/Berlin, Berlin, pp.1431-1439, 2020

II. Investigation into the Effects of an Individual Amino Acid on Protein Function by Means of a Resonant Recognition Model

Chrysostomou C., Şeker H., Aydın N.

in: Lecture Notes in Computer Science, Volume 6935, Convergence and Hybrid Information Technology, Lee Geuk, Howard Daniel, Ślęzak Dominik, Editor, Springer, London/Berlin, Berlin, pp.229-236, 2011

III. Effect of Different Window and Wavelet Types on the Performance of a Novel Crackle Detection Algorithm

Serbes G., Şakar C. O., Aydın N., Kahya Z. Y.

in: Lecture Notes in Computer Science, Volume 6935, Convergence and Hybrid Information Technology, Lee Geuk, Howard Daniel, Ślęzak Dominik, Editor, Springer, London/Berlin, Berlin, pp.575-581, 2011

IV. Benchmarking the Data Mining Algorithms with Adaptive Neuro-Fuzzy Inference System in GSM Churn Management

KARAOCA A., KARAOCA D., AYDIN N.

in: Data Mining and Knowledge Discovery in Real Life Applications, Ponce Julio and Karahoca Adem, Editor, InTech Education and Publishing, Rijeka, pp.230-242, 2009

V. 2007 2nd NASA/ESA Conference on Adaptive Hardware and Systems

STOICA A., ARSLAN T., SUESS M., YALÇIN Ş., KEYMEULEN D., HIGHUCHI T., ZEBULUM R., AYDIN N.
IEEE Computer Soc., 2007

VI. Proceedings of the 4th International Conference on e-Learning

GÜNGÖR A., AYDIN N., KARAOCA A., TOKLU Ç.

Bahçeşehir University Publications, İstanbul, 2007

VII. First NASA/ESA Conference on Adaptive Hardware and Systems

STOICA A., ARSLAN T., SUESS M., YALÇIN Ş., KEYMEULEN D., HIGHUCHI T., ZEBULUM R., AYDIN N.
IEEE Computer Soc., 2006

VIII. Time-frequency and time-scale analysis of embolic signals

Aydın N.

in: Mathematics in signal processing V, McWhirter J.G. and Proudler I.K., Editor, Clarendon Press, Gloucestershire, UK, Oxford, pp.241-254, 2002

Refereed Congress / Symposium Publications in Proceedings

I. Texture and CNN Based Doppler Signal Classification

Lone A. W., AYDIN N.

8th International Conference on Computer Science and Engineering, UBMK 2023, Burdur, Turkey, 13 - 15 September 2023, pp.201-205

- II. **Hybrid Krill Herd Algorithm with Particle Swarm Optimization for Image Enhancement**
Pashaei E., Pashaei E., AYDIN N.
International Conference on Intelligent and Fuzzy Systems, INFUS 2020, İstanbul, Turkey, 21 - 23 July 2020, pp.1431-1439
- III. **Morphological Classification of Low Quality Sperm Images Using Deep Learning Networks**
YÜZKAT M., İLHAN H. O., AYDIN N.
2020 Medical Technologies Congress (TIPTEKNO), Turkey, 19 November 2020
- IV. **Kurdish digit recognition with Artificial Neural Network**
BATUR Ö., AYDIN N.
International Engineering and Science Symposium, 20 - 22 June 2019
- V. **Parametric Trigger Signal Generation with Microcontroller and FPGA Based Architectures**
Mikrodenetleyici ve FPGA Tabanlı Mimariler ile Parametrik Tetik Sinyali Üretimi
Kazma C., Levent V. E., AYDIN N.
4th International Conference on Computer Science and Engineering, UBMK 2019, Samsun, Turkey, 11 - 15 September 2019, pp.140-144
- VI. **Duyusal Tepkilerin Merkezi Sinir Sistemi Üzerindeki Ölçümü İçin Yeni Bir Sistem**
KAZMA C., LEVENT V. E., AYDIN N.
UMBK, 18 - 21 August 2019
- VII. **Design and development of a new tactile stimulator**
Kazma C., Levent V. E., AYDIN N.
2019 NASA/ESA Conference on Adaptive Hardware and Systems, AHS 2019, Colchester, United Kingdom, 22 - 24 July 2019, pp.55-60
- VIII. **An Engineering Perspective on Complex Analysis and Transform Domain Processing of Quadrature Signals**
AYDIN N.
MODERN PROBLEMS OF INNOVATIVE TECHNOLOGIES IN OIL AND GAS PRODUCTION AND APPLIED MATHEMATICS", 13 - 14 December 2018
- IX. **Processing of Quadrature Doppler Ultrasound Signals-An Engineering Perspective of Complex Analysis-**
AYDIN N.
International Conference on Mathematical Advances and Applications (ICOMAA2018), 11 - 13 May 2018
- X. **The Effect of Nonlinear Wavelet Transform Based De-noising in Sperm Abnormality Classification**
İLHAN H. O., SİĞİRCİ İ. O., SERBES G., AYDIN N.
2018 3rd International Conference on Computer Science and Engineering (UBMK), Sarajevo, Bosnia and Herzegovina, 20 - 23 September 2018
- XI. **Music Genre Classification and Recommendation by Using Machine Learning and Deep Learning**
ELBİR A., AYDIN N.
Akıllı Sistemlerde Yenilikler Ve Uygulamaları Konferansı 2018, Adana, Turkey, 04 October 2018, pp.1-5
- XII. **Dual Tree Complex Wavelet Transform Based Sperm Abnormality Classification**
İLHAN H. O., SERBES G., AYDIN N.
2018 41st International Conference on Telecommunications and Signal Processing (TSP), Athens, Greece, 4 - 06 July 2018
- XIII. **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
- XIV. **The performance evaluation of the Cat and Particle Swarm Optimization Techniques in the image enhancement**

Çam H. B., Akçakoca S., ELBİR A., İLHAN H. O., AYDIN N.

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

XV. 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

XVI. Computer aided motile sperm counting Bilgisayar Destekli Hareketli Sperm Sayimi

İLHAN H. O., AYDIN N.

2017 Medical Technologies National Conference, TIPTEKNO 2017, Trabzon, Turkey, 12 - 14 October 2017, pp.1-5

XVII. The Contribution of DSP Integration to ARM Cores in SBCs for the Video Decoding Process

İLHAN H. O., AYDIN N.

International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI-2017), India, 21 - 22 September 2017

XVIII. Object Detection on Deformable Surfaces using Local Feature Sets

KALELİ F., AYDIN N.

International Conference on Power, Control, Signals and Instrumentation, Chennai, India, 21 - 22 September 2017

XIX. Biomedical signal processing - An overview and recent advances

AYDIN N.

ICPCI 2017, Chennai, India, 21 - 22 September 2017

XX. A Microcontroller Based System for Measuring the Central Neural System Response

KAZMA C., AYDIN N.

International Conference on Power, Control, Signals and Instrumentation, Chennai, India, 21 - 22 September 2017

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

SERBES G., AYDIN N.

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

XXII. Assessment of similarity rates of liver images using geometric transformations Karaciğer görüntülerinin geometrik dönüşüm yöntemleri kullanılarak benzerliklerinin değerlendirilmesi

Palabas T., Osman O., Ergin T., Teomete U., Dandin O., AYDIN N.

2016 Medical Technologies National Conference, TIPTEKNO 2016, Antalya, Turkey, 27 - 29 October 2016

XXIII. Copying Case Detection with Data Mining

TARHAN H. H., AYDIN N.

2017 International Conference on Computer Science and Engineering (UBMK), Antalya, Turkey, 5 - 08 October 2017, pp.430-434

XXIV. Frequency Difference based DNA Encoding Methods in Human Splice Site Recognition

Pashaei E., AYDIN N.

2017 International Conference on Computer Science and Engineering (UBMK), Antalya, Turkey, 5 - 08 October 2017, pp.586-591

XXV. Prediction of splice site using AdaBoost with a new sequence encoding approach

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

2016 IEEE International Conference on Systems, Man, and Cybernetics, 9 - 12 October 2016

XXVI. Determining the right abdomen region border for the injured liver segmentation Yaralanmış Karaciğer Bölütlemesi için Sağ Batin Bolge Sinirinin Belirlenmesi

Palabas T., Osman O., Ergin T., Teomete U., Dandin O., AYDIN N.

Electric Electronics, Computer Science, Biomedical Engineerings Meeting, EBBT 2016, İstanbul, Turkey, 26 - 27 April 2016

XXVII. 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, United States Of America, 16 - 20 August 2016, pp.3076-3079

- XXVIII. **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
- XXIX. **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, United States Of America, 24 - 27 February 2016, pp.308-311
- XXX. **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, United States Of America, 16 - 20 August 2016, pp.3080-3083
- XXXI. **Analysis of Embolic Signals with Directional Dual Tree Rational Dilation Wavelet Transform**
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- XXXII. **A Combined SVM and Markov Model approach for Splice Site Identification**
Pashaei E., YILMAZ A., Aydin N.
6th International Conference on Computer and Knowledge Engineering (ICCKE), Mashhad, Iran, 20 - 21 October 2016, pp.200-204
- XXXIII. **Random forest in Splice site prediction of human genome**
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