

# Nizamettin Aydın

## List of Publications by Year in descending order

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Version: 2024-02-01

111  
papers

1,547  
citations

471371

17  
h-index

414303

32  
g-index

115  
all docs

115  
docs citations

115  
times ranked

1303  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emboli detection using a wrapper-based feature selection algorithm with multiple classifiers. Biomedical Signal Processing and Control, 2022, 71, 103080.	3.5	8
2	Decision and feature level fusion of deep features extracted from public COVID-19 data-sets. Applied Intelligence, 2022, 52, 8551-8571.	3.3	14
3	Tuning hyperparameters of machine learning algorithms and deep neural networks using metaheuristics: A bioinformatics study on biomedical and biological cases. Computational Biology and Chemistry, 2022, 97, 107619.	1.1	66
4	High-throughput analysis of the interactions between viral proteins and host cell RNAs. Computers in Biology and Medicine, 2021, 135, 104611.	3.9	9
5	Multi-model CNN fusion for sperm morphology analysis. Computers in Biology and Medicine, 2021, 137, 104790.	3.9	20
6	Sperm Motility Analysis by using Recursive Kalman Filters with the smartphone based data acquisition and reporting approach. Expert Systems With Applications, 2021, 186, 115774.	4.4	7
7	Smartphone based sperm counting - an alternative way to the visual assessment technique in sperm concentration analysis. Multimedia Tools and Applications, 2020, 79, 6409-6435.	2.6	6
8	Automated sperm morphology analysis approach using a directional masking technique. Computers in Biology and Medicine, 2020, 122, 103845.	3.9	18
9	A fully automated hybrid human sperm detection and classification system based on mobile-net and the performance comparison with conventional methods. Medical and Biological Engineering and Computing, 2020, 58, 1047-1068.	1.6	36
10	An Optimal Feature Parameter Set Based on Gated Recurrent Unit Recurrent Neural Networks for Speech Segment Detection. Applied Sciences (Switzerland), 2020, 10, 1273.	1.3	26
11	Gene selection using hybrid binary black hole algorithm and modified binary particle swarm optimization. Genomics, 2019, 111, 669-686.	1.3	55
12	Design and Development of a New Tactile Stimulator. , 2019, , .		0
13	Automatic directional masking technique for better sperm morphology segmentation and classification analysis. Electronics Letters, 2019, 55, 256-258.	0.5	10
14	Markovian encoding models in human splice site recognition using SVM. Computational Biology and Chemistry, 2018, 73, 159-170.	1.1	12
15	A novel data acquisition and analyzing approach to spermiogram tests. Biomedical Signal Processing and Control, 2018, 41, 129-139.	3.5	15
16	The Effect of Nonlinear Wavelet Transform Based De-noising in Sperm Abnormality Classification. , 2018, , .		5
17	Music Genre Classification and Recommendation by Using Machine Learning Techniques. , 2018, , .		35
18	The Effects of the Modified Overlapping Group Shrinkage Technique on the Sperm Segmentation in the Stained Images. , 2018, , .		6

#	ARTICLE	IF	CITATIONS
19	Dual Tree Complex Wavelet Transform Based Sperm Abnormality Classification. , 2018, , .		7
20	Short Time Fourier Transform based music genre classification. , 2018, , .		18
21	The performance evaluation of the Cat and Particle Swarm Optimization Techniques in the image enhancement. , 2018, , .		1
22	Splice site identification in human genome using random forest. Health and Technology, 2017, 7, 141-152.	2.1	13
23	Binary black hole algorithm for feature selection and classification on biological data. Applied Soft Computing Journal, 2017, 56, 94-106.	4.1	137
24	Copying case detection with data mining. , 2017, , .		0
25	Dynamic programming-based multi-vehicle longitudinal trajectory optimization with simplified car following models. Transportation Research Part B: Methodological, 2017, 106, 102-129.	2.8	96
26	Resonance based pre-processing method for eliminating artifacts in Doppler ultrasound signals. , 2017, , .		1
27	Computer aided motile sperm counting. , 2017, , .		0
28	Frequency difference based DNA encoding methods in human splice site recognition. , 2017, , .		4
29	Object detection on deformable surfaces using local feature sets. , 2017, , .		2
30	The contribution of DSP integration to ARM cores in SBCs for the video decoding process. , 2017, , .		1
31	A microcontroller based system for measuring the central neural system response. , 2017, , .		0
32	Meta-analysis of miRNA expression profiles for prostate cancer recurrence following radical prostatectomy. PLoS ONE, 2017, 12, e0179543.	1.1	96
33	Comprehensive review of association estimators for the inference of gene networks. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 695-718.	0.9	11
34	A Meta-Analysis: Identification of Common Mir-145 Target Genes that have Similar Behavior in Different GEO Datasets. PLoS ONE, 2016, 11, e0161491.	1.1	23
35	Assessment of similarity rates of liver images using geometric transformations. , 2016, , .		0
36	Prediction of splice site using AdaBoost with a new sequence encoding approach. , 2016, , .		5

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37	A combined SVM and Markov model approach for splice site identification. , 2016, , .		10
38	A Multi-channel Real Time Implementation of Dual Tree Complex Wavelet Transform in Field Programmable Gate Arrays. IFMBE Proceedings, 2016, , 114-118.	0.2	2
39	Comparing Genomic Network Methodologies: A Combined Approach for Cancer Prognosis. IFMBE Proceedings, 2016, , 512-517.	0.2	0
40	Gene selection and classification approach for microarray data based on Random Forest Ranking and BBHA. , 2016, , .		21
41	Code generator for implementing dual tree complex wavelet transform on reconfigurable architectures for mobile applications. Healthcare Technology Letters, 2016, 3, 184-188.	1.9	1
42	A novel method for splice sites prediction using sequence component and hidden Markov model. , 2016, 2016, 3076-3079.		10
43	Biomarker discovery based on BBHA and AdaboostM1 on microarray data for cancer classification. , 2016, 2016, 3080-3083.		8
44	Analysis of embolic signals with directional dual tree rational dilation wavelet transform. , 2016, 2016, 3821-3824.		1
45	Splice sites prediction of human genome using AdaBoost. , 2016, , .		15
46	Determining the right abdomen region border for the injured liver segmentation. , 2016, , .		0
47	Directional dual-tree complex wavelet packet transforms for processing quadrature signals. Medical and Biological Engineering and Computing, 2016, 54, 295-313.	1.6	10
48	Random Forest in Splice Site Prediction of Human Genome. IFMBE Proceedings, 2016, , 518-523.	0.2	7
49	A micro emboli vs non-emboli classification system based on the directional dual tree rational dilation wavelet transform. , 2015, , .		1
50	CISAPS: Complex Informational Spectrum for the Analysis of Protein Sequences. Advances in Bioinformatics, 2015, 2015, 1-10.	5.7	15
51	An area efficient real time implementation of dual tree complex wavelet transform in field programmable gate arrays. , 2015, , .		3
52	An application of black hole algorithm and decision tree for medical problem. , 2015, , .		11
53	An emboli detection system based on Dual Tree Complex Wavelet Transform and ensemble learning. Applied Soft Computing Journal, 2015, 37, 87-94.	4.1	19
54	Field programmable gate arrays implementation of Dual Tree Complex Wavelet Transform. , 2015, 2015, 6026-9.		3

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55	A novel gene selection algorithm for cancer identification based on random forest and particle swarm optimization. , 2015, , .		7
56	Improving medical diagnosis reliability using Boosted C5.0 decision tree empowered by Particle Swarm Optimization. , 2015, 2015, 7230-3.		12
57	Directional dual-tree rational-dilation complex wavelet transform. , 2014, 2014, 1465-8.		4
58	Symmetrical directional dual-tree complex wavelet packet transform. , 2014, 2014, 820-3.		0
59	Denosing performance of modified dual-tree complex wavelet transform for processing quadrature embolic Doppler signals. Medical and Biological Engineering and Computing, 2014, 52, 29-43.	1.6	17
60	Combining multiple views: Case studies on protein and arrhythmia features. Engineering Applications of Artificial Intelligence, 2014, 28, 174-180.	4.3	1
61	A comprehensive comparison of association estimators for gene network inference algorithms. Bioinformatics, 2014, 30, 2142-2149.	1.8	21
62	Impacts of the different spline orders on the B-spline association estimator. , 2013, , .		0
63	Pulmonary crackle detection using timeâ€“frequency and timeâ€“scale analysis. , 2013, 23, 1012-1021.		71
64	Directional dual-tree complex wavelet packet transform. , 2013, 2013, 3046-9.		8
65	Embolic Doppler ultrasound signal detection via fractional Fourier transform. , 2013, 2013, 3050-3.		6
66	Pulmonary crackle detection using time-frequency analysis. , 2012, , .		2
67	Statistical bias and variance of gene selection and cross validation methods: A case study on hypertension prediction. , 2012, , .		1
68	Embolic doppler ultrasound signal detection using modified dual tree complex wavelet transform. , 2012, , .		3
69	Extracellular spike detection with resonance based signal decomposition. , 2012, , .		0
70	Denosing embolic doppler signals using modified complex discrete wavelet transform. , 2011, , .		1
71	Effects of windowing and zero-padding on Complex Resonant Recognition Model for protein sequence analysis. , 2011, 2011, 4955-8.		8
72	Modified dual tree complex wavelet transform for processing quadrature signals. Biomedical Signal Processing and Control, 2011, 6, 301-306.	3.5	15

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73	Feature extraction using time-frequency/scale analysis and ensemble of feature sets for crackle detection. , 2011, 2011, 3314-7.		29
74	Symmetrical modified dual tree complex wavelet transform for processing quadrature Doppler ultrasound signals. , 2011, 2011, 4816-9.		1
75	Complex Resonant Recognition Model in analysing Influenza a virus subtype protein sequences. , 2010, , .		7
76	Denoising embolic Doppler ultrasound signals using Dual Tree Complex Discrete Wavelet Transform. , 2010, 2010, 1840-3.		10
77	Variable optimisation of medical image data by the learning Bayesian Network reasoning. , 2010, 2010, 4554-7.		7
78	Denoising performance of modified dual tree complex wavelet transform. , 2010, , .		2
79	Parallel interacting multiview learning: An application to prediction of protein sub-nuclear location. , 2009, , .		3
80	A new wavelet transform method for processing Doppler signals. , 2009, , .		2
81	A complex discrete wavelet transform for processing quadrature Doppler ultrasound signals. , 2009, , .		9
82	Review of Communication Systems for Ingestible Miniaturized Integrated Sensor Microsystems. , 2009, , .		5
83	Network Intrusion Detection by Using Cellular Neural Network with Tabu Search. , 2008, , .		4
84	A Threshold Free Clustering Algorithm for Robust Unsupervised Classification. , 2007, , .		1
85	Analysis and Optimization of a Wireless Communication System for an Ingestible Sensor Microsystem. , 2007, , .		0
86	An Adaptive Approach to the Segmentation of DCE-MR Images of the Breast: Comparison with Classical Thresholding Algorithms. , 2007, , .		3
87	A novel information-theoretic clustering algorithm for robust, unsupervised classification. , 2007, , .		1
88	GSM Churn Management Using an Adaptive Neuro-Fuzzy Inference System. , 2007, , .		1
89	Kaleidomaps: A New Technique for the Visualization of Multivariate Time-Series Data. Information Visualization, 2007, 6, 155-167.	1.2	15
90	Data Mining Usage in Emboli Detection. , 2007, , .		4

#	ARTICLE	IF	CITATIONS
91	DWT Based Adaptive Threshold Determination in Embolic Signal Detection. , 2007, , .		4
92	Signed higher-radix full-adder algorithm and implementation with current-mode multi-valued logic circuits. IET Circuits, Devices and Systems, 2006, 153, 489.	0.6	3
93	A direct-sequence spread-spectrum communication system for integrated sensor microsystems. IEEE Transactions on Information Technology in Biomedicine, 2005, 9, 4-12.	3.6	18
94	Embolic Doppler Ultrasound Signal Detection Using Discrete Wavelet Transform. IEEE Transactions on Information Technology in Biomedicine, 2004, 8, 182-190.	3.6	63
95	A novel signed higher-radix full-adder algorithm and implementation with current-mode multi-valued logic circuits. , 2004, , .		3
96	Efficient implementations of mobile video computations on domain-specific reconfigurable arrays. , 2004, , .		5
97	Power/area analysis and optimization of a DS-SS receiver for an integrated sensor microsystem. , 2003, , .		1
98	Compensatory fuzzy neural networks-based intelligent detection of abnormal neonatal cerebral Doppler ultrasound waveforms. IEEE Transactions on Information Technology in Biomedicine, 2001, 5, 187-194.	3.6	33
99	Time-scale analysis of quadrature Doppler ultrasound signals. IET Science, Measurement and Technology, 2001, 148, 15-22.	0.7	10
100	Optimization of processing parameters for the analysis and detection of embolic signals. European Journal of Ultrasound: Official Journal of the European Federation of Societies for Ultrasound in Medicine and Biology, 2000, 12, 69-79.	1.4	35
101	Directional wavelet transform in the context of complex quadrature Doppler signals. IEEE Signal Processing Letters, 2000, 7, 278-280.	2.1	21
102	The use of the wavelet transform to describe embolic signals. Ultrasound in Medicine and Biology, 1999, 25, 953-958.	0.7	70
103	Quadrature-to-directional format conversion of Doppler signals using digital methods. Physiological Measurement, 1994, 15, 181-199.	1.2	46
104	Implementation of directional Doppler techniques using a digital signal processor. Medical and Biological Engineering and Computing, 1994, 32, S157-S164.	1.6	30
105	A spread spectrum based communication system for an integrated sensor microsystem. , 0, , .		7
106	Detection and estimation of embolic Doppler signals using discrete wavelet transform. , 0, , .		3
107	Intelligent detection of abnormal neonatal cerebral haemodynamics in a neonatal intensive care environment. , 0, , .		0
108	The design of optimized programmable transmitter and receiver architectures for an integrated sensor microsystem. , 0, , .		0

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109	Direct sequence CDMA based wireless interface for an integrated sensor microsystem. , 0, , .		4
110	Using covariates for improving the minimum redundancy maximum relevance feature selection method. Turkish Journal of Electrical Engineering and Computer Sciences, 0, , .	0.9	7
111	Effects of Color Space Transformations on Classification Performance of Sperm Morphology. European Journal of Science and Technology, 0, , .	0.5	0