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List of Publications by Year
in descending order

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60 papers	1,003 citations	566801 15 h-index	500791 28 g-index
64 all docs	64 docs citations	64 times ranked	812 citing authors

#	Article	IF	Citations
1	A Review of Obstructive Sleep Apnea Detection Approaches. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 825-837.	3.9	128
2	A Systematic Review of Detecting Sleep Apnea Using Deep Learning. Sensors, 2019, 19, 4934.	2.1	91
3	Devices for home detection of obstructive sleep apnea: A review. Sleep Medicine Reviews, 2018, 41, 149-160.	3.8	86
4	A Review of Approaches for Sleep Quality Analysis. IEEE Access, 2019, 7, 24527-24546.	2.6	61
5	Heart rate variability feature selection in the presence of sleep apnea: An expert system for the characterization and detection of the disorder. Computers in Biology and Medicine, 2017, 91, 47-58.	3.9	44
6	SpO2 based sleep apnea detection using deep learning. , 2017, , .		44
7	Oxygen Saturation and RR Intervals Feature Selection for Sleep Apnea Detection. Entropy, 2015, 17, 2932-2957.	1.1	43
8	Application of the Permutation Entropy over the Heart Rate Variability for the Improvement of Electrocardiogram-based Sleep Breathing Pause Detection. Entropy, 2015, 17, 914-927.	1.1	41
9	Velocity-based resistance training: impact of velocity loss in the set on neuromuscular performance and hormonal response. Applied Physiology, Nutrition and Metabolism, 2020, 45, 817-828.	0.9	40
10	Multi-Objective Hyperparameter Optimization of Convolutional Neural Network for Obstructive Sleep Apnea Detection. IEEE Access, 2020, 8, 129586-129599.	2.6	33
11	Detection of different voice diseases based on the nonlinear characterization of speech signals. Expert Systems With Applications, 2017, 82, 184-195.	4.4	31
12	Symbolic dynamics marker of heart rate variability combined with clinical variables enhance obstructive sleep apnea screening. Chaos, 2014, 24, 024404.	1.0	30
13	An Oximetry Based Wireless Device for Sleep Apnea Detection. Sensors, 2020, 20, 888.	2.1	25
14	Improving the understanding of sleep apnea characterization using Recurrence Quantification Analysis by defining overall acceptable values for the dimensionality of the system, the delay, and the distance threshold. PLoS ONE, 2018, 13, e0194462.	1.1	22
15	Optimization of sleep apnea detection using SpO2 and ANN. , 2017, , .		19
16	Sleep Quality Estimation by Cardiopulmonary Coupling Analysis. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 2233-2239.	2.7	19
17	Automatic detection of cyclic alternating pattern. Neural Computing and Applications, 2022, 34, 11097-11107.	3.2	17
18	A portable wireless device based on oximetry for sleep apnea detection. Computing (Vienna/New York), 2018, 100, 1203-1219.	3.2	16

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19	Analog active filter design using a multi objective genetic algorithm. AEU - International Journal of Electronics and Communications, 2018, 93, 83-94.	1.7	16
20	A Portable Wireless Device for Cyclic Alternating Pattern Estimation from an EEG Monopolar Derivation. Entropy, 2019, 21, 1203.	1.1	15
21	Greedy based convolutional neural network optimization for detecting apnea. Computer Methods and Programs in Biomedicine, 2020, 197, 105640.	2.6	14
22	Comparison of SFS and mRMR for oximetry feature selection in obstructive sleep apnea detection. Neural Computing and Applications, 2020, 32, 15711-15731.	3.2	13
23	Availability and performance of face based non-contact methods for heart rate and oxygen saturation estimations: A systematic review. Computer Methods and Programs in Biomedicine, 2022, 219, 106771.	2.6	11
24	On the use of patterns obtained from LSTM and feature-based methods for time series analysis: application in automatic classification of the CAP A phase subtypes. Journal of Neural Engineering, 2021, 18, 036004.	1.8	10
25	Human Computer Interactions in Next-Generation of Aircraft Smart Navigation Management Systems: Task Analysis and Architecture under an Agent-Oriented Methodological Approach. Sensors, 2015, 15, 5228-5250.	2.1	9
26	Cyclic alternating pattern estimation based on a probabilistic model over an EEG signal. Biomedical Signal Processing and Control, 2020, 62, 102063.	3.5	9
27	Matrix of Lags: A tool for analysis of multiple dependent time series applied for CAP scoring. Computer Methods and Programs in Biomedicine, 2020, 189, 105314.	2.6	9
28	Writer identification approach by holistic graphometric features using off-line handwritten words. Neural Computing and Applications, 2020, 32, 15733-15746.	3.2	8
29	Sleep apnea: Tracking effects of a first session of CPAP therapy by means of Granger causality. Computer Methods and Programs in Biomedicine, 2020, 187, 105235.	2.6	8
30	Automatic Detection of a Phases for CAP Classification. , 2018, , .		8
31	A Motion and Illumination Resistant Non-Contact Method Using Undercomplete Independent Component Analysis and Levenberg-Marquardt Algorithm. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4837-4848.	3.9	8
32	Combination of Deep and Shallow Networks for Cyclic Alternating Patterns Detection. , 2018, , .		7
33	Chagas disease vectors identification using visible and near-infrared spectroscopy. Chemometrics and Intelligent Laboratory Systems, 2020, 197, 103914.	1.8	6
34	A Method for Sleep Quality Analysis Based on CNN Ensemble With Implementation in a Portable Wireless Device. IEEE Access, 2020, 8, 158523-158537.	2.6	6
35	Modeling a robust wind-speed forecasting to apply to wind-energy production. Neural Computing and Applications, 2019, 31, 7891-7905.	3.2	5
36	Sleep quality of subjects with and without sleep-disordered breathing based on the cyclic alternating pattern rate estimation from single-lead ECG. Physiological Measurement, 2019, 40, 105009.	1.2	5

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37	A method based on cardiopulmonary coupling analysis for sleep quality assessment with FPGA implementation. Artificial Intelligence in Medicine, 2021, 112, 102019.	3.8	5
38	Neural networks fusion for temperature forecasting. Neural Computing and Applications, 2020, 32, 15699-15710.	3.2	4
39	Temperature Control by Its Forecasting Applying Score Fusion for Sustainable Development. Sustainability, 2017, 9, 193.	1.6	3
40	An Approach to Rain Detection Using Sobel Image Pre-processing and Convolutional Neuronal Networks. Lecture Notes in Computer Science, 2019, , 27-38.	1.0	3
41	Improving the performance of the lip identification through the use of shape correction. Applied Intelligence, 2019, 49, 1823-1840.	3.3	3
42	SC3: self-configuring classifier combination for obstructive sleep apnea. Neural Computing and Applications, 2020, 32, 17825-17841.	3.2	3
43	Robust Detection of Fatigue Parameters Based on Infrared Information. IEEE Access, 2021, 9, 18209-18221.	2.6	3
44	Application of RR series and oximetry to a statistical classifier for the detection of sleep apnoea/hypopnoea. , 0, , .		2
45	An Approach to the Improvement of Electrocardiogram-based Sleep Breathing Pauses Detection by means of Permutation Entropy of the Heart Rate Variability. , 2014, , .		2
46	Symmetry Extraction in High Sensitivity Melanoma Diagnosis. Symmetry, 2015, 7, 1061-1079.	1.1	2
47	Transfer entropy to characterize brain-heart topology in sleep apnea patients treated with continuous positive airway pressure. , 2017, , .		2
48	Sleep Quality Analysis with Cardiopulmonary Coupling. , 2018, , .		2
49	Effects of replacing rye-grass (Lolium spp.) hay by banana (Musa acuminata L.) by-products on feed intake, growth, and feed conversion rate of Canary hair sheep breed (Pelibuey) lambs. Tropical Animal Health and Production, 2018, 50, 1941-1945.	0.5	2
50	On the Application of a Recurrent Neural Network for Rainfall Quantification Based on the Received Signal from Microwave Links. Lecture Notes in Computer Science, 2019, , 39-51.	1.0	2
51	Cyclic Alternating Pattern Estimation from One EEG Monopolar Derivation Using a Long Short-Term Memory. , 2019, , .		2
52	Heuristic Optimization of Deep and Shallow Classifiers: An Application for Electroencephalogram Cyclic Alternating Pattern Detection. Entropy, 2022, 24, 688.	1.1	2
53	A minimally invasive portable system for sleep apnea detection. , 2017, , .		1
54	A Boosting Method with Gaussian Mixtures as Base Learners in a Low-Dimension Space. IEEE International Workshop on Machine Learning for Signal Processing, 2006, , .	0.0	0

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55	A new DOA estimation algorithm for ARMA sources applied to sperm-whale localization. , 2012, , .		0
56	Highlights of ES2DE and IWOBI 2017: extended versions of selected best papers. Computing (Vienna/New) Tj ETQq0 0 0 rgBT /Overlock	3.2	0
57	Sokak KÃ¶peklerinde Spesifik Olmayan Reaktif Hepatit Ã‡alÄ±ÅŸmasÄ±. Kafkas Universitesi Veteriner Fakultesi Dergisi, 2019, , .	0.0	0
58	Immunological and pathological investigations of non-specific reactive hepatitis in shelter dogs. Acta Veterinaria, 2019, 69, 61-72.	0.2	0
59	Ä°nflamatuar BaÄŸÄ±rsak HastalÄ±ÄŸÄ± Olan Kedi ve KÃ¶peklerde Klinik Bulgular Ä°le Patolojik Bulgular ArasÄ±ndaki Ä°liÅŸkilerin AraÅŸtÄ±rÄ±lmasÄ±. Kafkas Universitesi Veteriner Fakultesi Dergisi, 2020, , .	0.0	0
60	Study of Correlations between Clinical Signs and Morphological Features Identified in Dogs Affected with Inflammatory Bowel Disease. Macedonian Veterinary Review, 2020, 43, 13-22.	0.2	0