Beena Ahmed

List of Publications by Year
in descending order

83 papers	**906** citations	687363 **13** h-index	642732 **23** g-index
83 all docs	**83** docs citations	**83** times ranked	**986** citing authors

#	Article	IF	Citations
1	Development and Evaluation of an Ambulatory Stress Monitor Based on Wearable Sensors. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 279-286.	3.2	160
2	Deep Learning and Insomnia: Assisting Clinicians With Their Diagnosis. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1546-1553.	6.3	60
3	An automatic sleep spindle detector based on wavelets and the teager energy operator. , 2009, 2009, 2596-9.		31
4	Speech-driven mobile games for speech therapy: User experiences and feasibility. International Journal of Speech-Language Pathology, 2018, 20, 644-658.	1.2	31
5	Tabby Talks: An automated tool for the assessment of childhood apraxia of speech. Speech Communication, 2015, 70, 49-64.	2.8	30
6	Clinical label-free biochemical and metabolic fluorescence lifetime endoscopic imaging of precancerous and cancerous oral lesions. Oral Oncology, 2020, 105, 104635.	1.5	28
7	Apraxia world. , 2018, , .		25
8	Automated speech analysis tools for children's speech production: A systematic literature review. International Journal of Speech-Language Pathology, 2018, 20, 583-598.	1.2	25
9	A New mHealth Communication Framework for Use in Wearable WBANs and Mobile Technologies. Sensors, 2015, 15, 3379-3408.	3.8	24
10	Gaming Away Stress: Using Biofeedback Games to Learn Paced Breathing. IEEE Transactions on Affective Computing, 2020, 11, 519-531.	8.3	21
11	The Automatic Detection of Speech Disorders in Children: Challenges, Opportunities, and Preliminary Results. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 400-412.	10.8	20
12	Development of a Remote Therapy Tool for Childhood Apraxia of Speech. ACM Transactions on Accessible Computing, 2015, 7, 1-23.	2.4	20
13	Architecture of an automated therapy tool for childhood apraxia of speech. , 2013, , .		19
14	Machine-Learning Assisted Discrimination of Precancerous and Cancerous from Healthy Oral Tissue Based on Multispectral Autofluorescence Lifetime Imaging Endoscopy. Cancers, 2021, 13, 4751.	3.7	19
15	Consistency and Validity of Self-reporting Scores in Stress Measurement Surveys. , 2012, 2012, 4895-8.		17
16	Endogenous Fluorescence Lifetime Imaging (FLIM) Endoscopy For Early Detection Of Oral Cancer And Dysplasia. , 2018, 2018, 3009-3012.		17
17	Flappy voice. , 2014, , .		15
18	Photoplethysmography derivatives and pulse transit time in overnight blood pressure monitoring. , 2016, 2016, 2855-2858.		15

#	ARTICLE	IF	CITATIONS
19	Improved spindle detection through intuitive pre-processing of electroencephalogram. Journal of Neuroscience Methods, 2014, 233, 1-12.	2.5	14
20	ReBreathe: A Calibration Protocol that Improves Stress/Relax Classification by Relabeling Deep Breathing Relaxation Exercises. IEEE Transactions on Affective Computing, 2016, 7, 150-161.	8.3	14
21	A Longitudinal Evaluation of Tablet-Based Child Speech Therapy with Apraxia World. ACM Transactions on Accessible Computing, 2021, 14, 1-26.	2.4	14
22	Dodging stress with a personalized biofeedback game. , 2014, , .		13
23	Comparing two insomnia detection models of clinical diagnosis techniques. , 2017, 2017, 3749-3752.		13
24	A comparison of GMM-HMM and DNN-HMM based pronunciation verification techniques for use in the assessment of childhood apraxia of speech. , 0, , .		13
25	Computer based sleep staging: Challenges for the future. , 2013, , .		12
26	A novel insomnia identification method based on Hjorth parameters. , 2015, , .		11
27	Objective Detection of Oral Carcinoma with Multispectral Fluorescence Lifetime Imaging <i>In Vivo</i>. Photochemistry and Photobiology, 2016, 92, 694-701.	2.5	11
28	Towards efficient and secure in-home wearable insomnia monitoring and diagnosis system. , 2013, , .		9
29	Periodic leg movement (PLM) monitoring using a distributed body sensor network. , 2015, 2015, 1837-40.		9
30	Playing with and without Biofeedback. , 2017, , .		9
31	A Two Stage Approach for the Automatic Detection of Insomnia. , 2018, 2018, 466-469.		9
32	The influence of type of feedback during tablet-based delivery of intensive treatment for childhood apraxia of speech. Journal of Communication Disorders, 2020, 87, 106026.	1.5	9
33	Removal of Subject-Dependent and Activity-Dependent Variation in Physiological Measures of Stress. , 2012, , .		8
34	Automatic classification of unequal lexical stress patterns using machine learning algorithms. , 2012, , .		8
35	Insomnia Characterization: From Hypnogram to Graph Spectral Theory. IEEE Transactions on Biomedical Engineering, 2016, 63, 2211-2219.	4.2	8
36	Automatic Classification of Lexical Stress in English and Arabic Languages Using Deep Learning. , 0, , .		8

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37	Robotics: Its effectiveness as a tool to teach engineering design and computer programming. , 2011, , .		7
38	Anomaly detection based pronunciation verification approach using speech attribute features. Speech Communication, 2019, 111, 29-43.	2.8	7
39	Supporting Children With Speech Sound Disorders During COVID-19 Restrictions: Technological Solutions. Perspectives of the ASHA Special Interest Groups, 2020, 5, 1805-1808.	0.8	7
40	Comparison of skin resistance between biological active points of left and right hands with various contact pressures. , 2004, 2004, 2995-8.		6
41	EEG time and frequency domain analyses of primary insomnia. , 2015, 2015, 6206-9.		6
42	How many sleep stages do we need for an efficient automatic insomnia diagnosis?. , 2016, 2016, 2431-2434.		6
43	Using an ambulatory stress monitoring device to identify relaxation due to untrained deep breathing. , 2013, 2013, 1744-7.		5
44	Classification of lexical stress patterns using deep neural network architecture. , 2014, , .		5
45	Sleep eDiary: A mobile health application for insomnia assessment. , 2014, , .		5
46	Flipping introductory engineering design courses: Evaluating their effectiveness. , 2016, , .		5
47	Pulse transit time and heart rate variability in sleep staging. , 2016, 2016, 3469-3472.		5
48	Predicting Dementia Risk Using Paralinguistic and Memory Test Features with Machine Learning Models. , 2019, , .		5
49	An Automated Lexical Stress Classification Tool for Assessing Dysprosody in Childhood Apraxia of Speech. Brain Sciences, 2021, 11, 1408.	2.3	5
50	An Investigation into the Preparation of High School Students to Pursue an Engineering Career. Procedia, Social and Behavioral Sciences, 2013, 102, 340-351.	0.5	4
51	Sleep onset detection with multiple EEG alpha-band features: Comparison between healthy, insomniac and schizophrenic patients. , 2015, , .		4
52	Evaluating Automatic Speech Recognition for Child Speech Therapy Applications. , 2019, , .		4
53	Advances in Automatic Sleep Analysis. IFMBE Proceedings, 2009, , 422-426.	0.3	4
54	Preliminary Results From a Longitudinal Study of a Tablet-Based Speech Therapy Game. , 2020, , .		4

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55	A novel method to measure respiratory airflow rate based on nasal pressure. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 415-419.	0.4	3
56	A remote deep sleep monitoring system based on a single channel for in-home insomnia diagnosis. , 2015, , .		3
57	Classification of healthy and insomnia subjects based on wake-to-sleep transition. , 2016, , .		3
58	Blood pressure and cardiovascular parameters during sleep arousals. , 2017, 2017, 2830-2833.		3
59	Automatic Screening Of Children With Speech Sound Disorders Using Paralinguistic Features. , 2019, , .		3
60	Anomaly Detection Approach for Pronunciation Verification of Disordered Speech Using Speech Attribute Features. , 0, , .		3
61	Using a quadratic parameter sinusoid model to characterize the structure of EEG sleep spindles. Frontiers in Human Neuroscience, 2015, 9, 206.	2.0	2
62	A cloud-based system for real-time, remote physiological monitoring of infants. , 2015, , .		2
63	Classification of bisyllabic lexical stress patterns in disordered speech using deep learning. , 2016, , .		2
64	An evaluation of the flipped classroom format in a first year introductory engineering course. , 2017, , .		2
65	Concept-Focused In-Class Demonstrations for Teaching Embedded System Design in Large Classes. , 2018, , .		2
66	One-Class SVMs Based Pronunciation Verification Approach. , 2018, , .		2
67	Analyzing Player Engagement for Biofeedback Games. , 2019, , .		2
68	Autofluorescence Lifetime Endoscopy for Early Detection of Oral Dysplasia and Cancer. , 2018, , .		2
69	The Future of Automatic EEG Monitoring in the Intensive Care. , 2008, , .		1
70	The longer term impact of fundamental engineering skills on students in higher level undergraduate courses. , 2012, , .		1
71	Sleep onset detection based on Time-Varying Autoregressive models with particle filter estimation. , 2014, , .		1
72	Searching arousals: A fuzzy logic approach. , 2015, 2015, 2754-7.		1

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73	Implementation Guidelines for an Automated Grading Tool to Assess Short Answer Questions on Digital Circuit Design Course. , 2018, , .		1
74	Pilot Validation of a Mimicking Algorithm For Detection of Sleep Spindles and K-complexes. IFMBE Proceedings, 2013, , 562-565.	0.3	1
75	A Characterization of Sleep Spindles in EEG. IFMBE Proceedings, 2009, , 671-674.	0.3	1
76	Using the wavelet packet transform in automatic sleep analysis. IFMBE Proceedings, 2009, , 397-401.	0.3	1
77	Classification of Healthy Subjects and Insomniac Patients Based on Automated Sleep Onset Detection. IFMBE Proceedings, 2016, , 188-192.	0.3	1
78	Two-dimensional barcodes: An effective real world example to teach design and programming. , 2012, , .		0
79	A neural network based lexical stress pattern classifier. Qatar Foundation Annual Research Forum Proceedings, 2012, , .	0.0	0
80	Accurate automatic identification of slow wave sleep using a single electro-oculogram channel. , 2014, , .		0
81	Characterising insomnia: A graph spectral theory approach. , 2015, 2015, 366-9.		0
82	Non-invasive Physiological Monitoring for the Detection of Stressful Conditions. Qatar Foundation Annual Research Forum Proceedings, 2011, , BMPS9.	0.0	0
83	Using Temporal Tracking Measures to Characterize Speech of Children with Childhood Apraxia of Speech. , 2012, , .		0