

# Hung T Nguyen

## List of Publications by Year in descending order

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319  
papers

5,471  
citations

136940

32  
h-index

144002

57  
g-index

321  
all docs

321  
docs citations

321  
times ranked

5379  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of an algorithm for an EEG-based driver fatigue countermeasure. Journal of Safety Research, 2003, 34, 321-328.	3.6	282
2	Regional brain wave activity changes associated with fatigue. Psychophysiology, 2012, 49, 574-582.	2.4	249
3	Driver Fatigue Classification With Independent Component by Entropy Rate Bound Minimization Analysis in an EEG-Based System. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 715-724.	6.3	205
4	Transradial Amputee Gesture Classification Using an Optimal Number of sEMG Sensors: An Approach Using ICA Clustering. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 837-846.	4.9	127
5	Single-Channel EMG Classification With Ensemble-Empirical-Mode-Decomposition-Based ICA for Diagnosing Neuromuscular Disorders. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 734-743.	4.9	125
6	The influence of mental fatigue on brain activity: Evidence from a systematic review with meta-analyses. Psychophysiology, 2020, 57, e13554.	2.4	115
7	Improving EEG-Based Driver Fatigue Classification Using Sparse-Deep Belief Networks. Frontiers in Neuroscience, 2017, 11, 103.	2.8	109
8	Comparing the Effects of Three Cognitive Tasks on Indicators of Mental Fatigue. Journal of Psychology: Interdisciplinary and Applied, 2019, 153, 759-783.	1.6	109
9	Nonnegative Matrix Factorization for the Identification of EMG Finger Movements: Evaluation Using Matrix Analysis. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 478-485.	6.3	107
10	Outcome effectiveness of the severe sepsis resuscitation bundle with addition of lactate clearance as a bundle item: a multi-national evaluation. Critical Care, 2011, 15, R229.	5.8	103
11	Investigation of window size in classification of EEG-emotion signal with wavelet entropy and support vector machine. , 2015, 2015, 7250-3.		99
12	Abnormal patterns of theta frequency oscillations during the temporal evolution of freezing of gait in Parkinson's disease. Clinical Neurophysiology, 2014, 125, 569-576.	1.5	95
13	A new approach to backwash initiation in membrane systems. Journal of Membrane Science, 2006, 278, 381-389.	8.2	89
14	Analysis and Prediction of the Freezing of Gait Using EEG Brain Dynamics. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 887-896.	4.9	85
15	Brain-Computer Interface Classifier for Wheelchair Commands Using Neural Network With Fuzzy Particle Swarm Optimization. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1614-1624.	6.3	73
16	Unsupervised machine-learning method for improving the performance of ambulatory fall-detection systems. BioMedical Engineering OnLine, 2012, 11, 9.	2.7	66
17	Electrocardiographic Signals and Swarm-Based Support Vector Machine for Hypoglycemia Detection. Annals of Biomedical Engineering, 2012, 40, 934-945.	2.5	65
18	Triangularization technique for the design of multivariable control systems. IEEE Transactions on Automatic Control, 1979, 24, 455-460.	5.7	59

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19	Design of a generic control system for optimising back flush durations in a submerged membrane hybrid reactor. <i>Journal of Membrane Science</i> , 2005, 255, 99-106.	8.2	59
20	The detection of Freezing of Gait in Parkinson's disease patients using EEG signals based on Wavelet decomposition. , 2012, 2012, 69-72.		59
21	A Dielectric Model of Human Breast Tissue in Terahertz Regime. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 699-707.	4.2	59
22	Diagnosis of hypoglycemic episodes using a neural network based rule discovery system. <i>Expert Systems With Applications</i> , 2011, 38, 9799-9808.	7.6	58
23	Principal Component Analysis Applied to Surface Electromyography: A Comprehensive Review. <i>IEEE Access</i> , 2016, 4, 4025-4037.	4.2	58
24	An ICA-EBM-Based sEMG Classifier for Recognizing Lower Limb Movements in Individuals With and Without Knee Pathology. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 675-686.	4.9	55
25	Dynamic output feedback sliding-mode control using pole placement and linear functional observers. <i>IEEE Transactions on Industrial Electronics</i> , 2003, 50, 1030-1037.	7.9	53
26	Nonlinear multiscale Maximal Lyapunov Exponent for accurate myoelectric signal classification. <i>Applied Soft Computing Journal</i> , 2015, 36, 633-640.	7.2	50
27	Non-invasive hypoglycemia monitoring system using extreme learning machine for Type 1 diabetes. <i>ISA Transactions</i> , 2016, 64, 440-446.	5.7	48
28	Prediction of Bone Mineral Density and Fragility Fracture by Genetic Profiling. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 285-293.	2.8	46
29	Early Driver Fatigue Detection from Electroencephalography Signals using Artificial Neural Networks. , 2006, 2006, 2187-90.		44
30	A submerged membrane hybrid system coupled with magnetic ion exchange (MIEX <sup>®</sup> ) and flocculation in wastewater treatment. <i>Desalination</i> , 2007, 216, 325-333.	8.2	44
31	Evolvable Rough-Block-Based Neural Network and its Biomedical Application to Hypoglycemia Detection System. <i>IEEE Transactions on Cybernetics</i> , 2014, 44, 1338-1349.	9.5	38
32	Using Blind Source Separation on accelerometry data to analyze and distinguish the toe walking gait from normal gait in ITW children. <i>Biomedical Signal Processing and Control</i> , 2014, 13, 41-49.	5.7	38
33	Data Clustering Using Variants of Rapid Centroid Estimation. <i>IEEE Transactions on Evolutionary Computation</i> , 2014, 18, 366-377.	10.0	38
34	Detecting neural changes during stress and fatigue effectively: a comparison of spectral analysis and sample entropy. , 2007, , .		37
35	Genetic-Algorithm-Based Multiple Regression With Fuzzy Inference System for Detection of Nocturnal Hypoglycemic Episodes. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2011, 15, 308-315.	3.2	37
36	Classification of EEG based-mental fatigue using principal component analysis and Bayesian neural network. , 2016, 2016, 4654-4657.		35

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37	An Intelligent Robotic Hospital Bed for Safe Transportation of Critical Neurosurgery Patients Along Crowded Hospital Corridors. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 744-754.	4.9	33
38	Deep learning framework for detection of hypoglycemic episodes in children with type 1 diabetes. , 2016, 2016, 3503-3506.		33
39	Natural occurrence of nocturnal hypoglycemia detection using hybrid particle swarm optimized fuzzy reasoning model. Artificial Intelligence in Medicine, 2012, 55, 177-184.	6.5	32
40	Discrimination of left and right leg motor imagery for brain-computer interfaces. Medical and Biological Engineering and Computing, 2010, 48, 343-350.	2.8	31
41	Robust Neuro-Sliding Mode Multivariable Control Strategy for Powered Wheelchairs. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 105-111.	4.9	31
42	Unsupervised nonparametric method for gait analysis using a waist-worn inertial sensor. Applied Soft Computing Journal, 2014, 14, 72-80.	7.2	31
43	Hypotension Risk Prediction via Sequential Contrast Patterns of ICU Blood Pressure. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1416-1426.	6.3	31
44	Adaptive EEG Thought Pattern Classifier for Advanced Wheelchair Control. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2544-7.	0.5	30
45	Study of a semi-active stiffness damper under various earthquake inputs. Earthquake Engineering and Structural Dynamics, 2002, 31, 1757-1776.	4.4	29
46	The Potential of the Double Debye Parameters to Discriminate Between Basal Cell Carcinoma and Normal Skin. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 990-998.	3.1	29
47	Distributed formation building algorithms for groups of wheeled mobile robots. Robotics and Autonomous Systems, 2016, 75, 463-474.	5.1	29
48	Neural-Network Detection of Hypoglycemic Episodes in Children with Type 1 Diabetes using Physiological Parameters. , 2006, 2006, 6053-6.		28
49	Detection of nocturnal hypoglycemic episodes (natural occurrence) in children with Type 1 diabetes using an optimal Bayesian neural network algorithm. , 2008, 2008, 1311-4.		28
50	Single channel blind source separation based local mean decomposition for Biomedical applications. , 2013, 2013, 6812-5.		28
51	Dependence Independence Measure for Posterior and Anterior EMG Sensors Used in Simple and Complex Finger Flexion Movements: Evaluation Using SDICA. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1689-1696.	6.3	28
52	On LMI-based sliding mode control for uncertain discrete-time systems. Journal of the Franklin Institute, 2016, 353, 3857-3875.	3.4	28
53	Recognizing emotions from EEG subbands using wavelet analysis. , 2015, 2015, 6030-3.		27
54	Quality and robustness improvement for real world industrial systems using a fuzzy particle swarm optimization. Engineering Applications of Artificial Intelligence, 2016, 47, 68-80.	8.1	27

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55	EEG-based emotion classification using innovative features and combined SVM and HMM classifier. , 2017, 2017, 489-492.		27
56	A Hybrid Fuzzy Cognitive Map/Support Vector Machine Approach for EEG-Based Emotion Classification Using Compressed Sensing. International Journal of Fuzzy Systems, 2019, 21, 263-273.	4.0	27
57	Intelligent technologies for real-time biomedical engineering applications. International Journal of Automation and Control, 2008, 2, 274.	0.5	25
58	Using EEG spatial correlation, cross frequency energy, and wavelet coefficients for the prediction of Freezing of Gait in Parkinson's Disease patients. , 2013, 2013, 4263-6.		25
59	EEG-based driver fatigue detection using hybrid deep generic model. , 2016, 2016, 800-803.		25
60	Hybrid brain-computer interface for biomedical cyber-physical system application using wireless embedded EEG systems. BioMedical Engineering OnLine, 2017, 16, 5.	2.7	25
61	A CHF detection method based on deep learning with RR intervals. , 2017, 2017, 3369-3372.		25
62	Detection of nocturnal hypoglycemic episodes using EEG signals. , 2010, 2010, 4930-3.		24
63	Experimental study on a smart wheelchair system using a combination of stereoscopic and spherical vision. , 2013, 2013, 4597-600.		24
64	Dominant risk factors for retinopathy at clinical diagnosis in patients with type II diabetes mellitus. Journal of Diabetes and Its Complications, 1996, 10, 211-219.	2.3	23
65	Fluidized bed magnetic ion exchange (MIEX®) as pre-treatment process for a submerged membrane reactor in wastewater treatment and reuse. Desalination, 2008, 227, 85-93.	8.2	23
66	Identification of Hypoglycemia and Hyperglycemia in Type 1 Diabetic patients using ECG parameters. , 2012, 2012, 2716-9.		23
67	Shared control strategies for obstacle avoidance tasks in an intelligent wheelchair. , 2008, 2008, 4254-7.		22
68	Age-Related Differences in Biomarkers of Acute Inflammation During Hospitalization for Sepsis. Shock, 2014, 42, 99-107.	2.1	22
69	An EEG study of turning freeze in Parkinson's disease patients: The alteration of brain dynamic on the motor and visual cortex. , 2015, 2015, 6618-21.		22
70	Continued Psychometric Evaluation of an Intuition Instrument for Nursing Students. Journal of Holistic Nursing, 2006, 24, 82-89.	1.6	20
71	Mental non-motor imagery tasks classifications of brain computer interface for wheelchair commands using genetic algorithm-based neural network. , 2012, , .		20
72	Debye Parameter Extraction for Characterizing Interaction of Terahertz Radiation With Human Skin Tissue. IEEE Transactions on Biomedical Engineering, 2013, 60, 1528-1537.	4.2	20

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73	Detection of turning freeze in Parkinson's disease based on S-transform decomposition of EEG signals. , 2017, 2017, 3044-3047.		20
74	Combining genetic algorithm and Levenberg-Marquardt algorithm in training neural network for hypoglycemia detection using EEG signals. , 2013, 2013, 5386-9.		19
75	Classification of finger extension and flexion of EMG and Cyberglove data with modified ICA weight matrix. , 2014, 2014, 3829-32.		19
76	Stabilising the networked control systems involving actuation and measurement consecutive packet losses. IET Control Theory and Applications, 2016, 10, 1269-1280.	2.1	19
77	HYBRID FUZZY LOGIC-BASED PARTICLE SWARM OPTIMIZATION FOR FLOW SHOP SCHEDULING PROBLEM. International Journal of Computational Intelligence and Applications, 2011, 10, 335-356.	0.8	18
78	Real-time head movement system and embedded Linux implementation for the control of power wheelchairs. , 2004, 2004, 4892-5.		17
79	Hands-free Head-movement Gesture Recognition using Artificial Neural Networks and the Magnified Gradient Function. , 2005, 2005, 2063-6.		17
80	Classification of EEG Signals Using a Genetic-Based Machine Learning Classifier. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3120-3.	0.5	17
81	Evolved fuzzy reasoning model for hypoglycaemic detection. , 2010, 2010, 4662-5.		17
82	Robust Non-Overshoot Time Responses Using Cascade Sliding Mode-PID Control. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2007, 11, 1224-1231.	0.9	17
83	Improved Head Direction Command Classification using an Optimised Bayesian Neural Network. , 2006, 2006, 5679-82.		16
84	Transient and steady state estimation of human oxygen uptake based on noninvasive portable sensor measurements. Medical and Biological Engineering and Computing, 2009, 47, 1111-1117.	2.8	16
85	Decentralised model predictive control with stability constraints and its application in process control. Journal of Process Control, 2015, 26, 73-89.	3.3	16
86	EEG emotion recognition using reduced channel wavelet entropy and average wavelet coefficient features with normal Mutual Information method. , 2017, 2017, 463-466.		16
87	Computational Intelligence and Its Applications. , 2012, , .		16
88	Application of an automation system and a supervisory control and data acquisition (SCADA) system for the optimal operation of a membrane adsorption hybrid system. Water Science and Technology, 2006, 53, 179-184.	2.5	15
89	Detection of Hypoglycemic Episodes in Children with Type 1 Diabetes using an Optimal Bayesian Neural Network Algorithm. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3140-3.	0.5	15
90	Mixed H2/H <sub>∞</sub> control of tall buildings with reduced-order modelling technique. Structural Control and Health Monitoring, 2008, 15, 64-89.	4.0	15

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91	Real-time detection of nocturnal hypoglycemic episodes using a novel non-invasive hypoglycemia monitor. , 2009, 2009, 3822-5.		15
92	Stabilising agent design for the control of interconnected systems. International Journal of Control, 2011, 84, 1140-1156.	1.9	15
93	Identification of hypoglycemic states for patients with T1DM using various parameters derived from EEG signals. , 2011, 2011, 2760-3.		15
94	Industrial Application of Evolvable Block-Based Neural Network to Hypoglycemia Monitoring System. IEEE Transactions on Industrial Electronics, 2013, 60, 5892-5901.	7.9	15
95	Shared control strategies for human - Machine interface in an intelligent wheelchair. , 2013, 2013, 3638-41.		15
96	Neural network approach for non-invasive detection of hyperglycemia using electrocardiographic signals. , 2014, 2014, 4475-8.		15
97	Detection of Gait Initiation Failure in Parkinson's disease patients using EEG signals. , 2016, 2016, 1599-1602.		15
98	Brain-Computer Interface-FES Integration: Towards a Hands-free Neuroprosthesis Command System. Neuromodulation, 2004, 7, 267-276.	0.8	14
99	Structural analysis on mutation residues and interfacial water molecules for human TIM disease understanding. BMC Bioinformatics, 2013, 14, S11.	2.6	14
100	Effects of hyperglycemia on variability of RR, QT and corrected QT intervals in Type 1 diabetic patients. , 2013, 2013, 1819-22.		14
101	An equivalent circuit model for onset and offset exercise response. BioMedical Engineering OnLine, 2014, 13, 145.	2.7	14
102	Advanced portable remote monitoring system for the regulation of treadmill running exercises. Artificial Intelligence in Medicine, 2014, 61, 119-126.	6.5	14
103	Prediction of hip fracture in post-menopausal women using artificial neural network approach. , 2017, 2017, 4207-4210.		14
104	Neural network control of wheelchairs using telemetric head movement. , 0, , .		13
105	Dynamic Modelling of Heart Rate Response Under Different Exercise Intensity. Open Medical Informatics Journal, 2010, 4, 81-85.	1.0	13
106	Electroencephalogram Spectral Moments for the Detection of Nocturnal Hypoglycemia. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1237-1245.	6.3	13
107	Robust tracking control of a differential drive wheeled mobile robot using fast nonsingular terminal sliding mode. Computers and Electrical Engineering, 2021, 96, 107488.	4.8	13
108	A novel fuzzy neural network estimator for predicting hypoglycaemia in insulin-induced subjects. , 0, , .		12

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109	Hypoglycemia detection: multiple regression-based combinational neural logic approach. <i>Soft Computing</i> , 2017, 21, 543-553.	3.6	12
110	Performance of a head-movement interface for wheelchair control. , 0, , .		11
111	Two Channel EEG Thought Pattern Classifier. , 2006, 2006, 1291-4.		11
112	Real-Time Obstacle Detection for an Autonomous Wheelchair Using Stereoscopic Cameras. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 4775-8.	0.5	11
113	Conditions for triangular decoupling control. <i>International Journal of Control</i> , 2009, 82, 1575-1581.	1.9	11
114	An adaptive strategy of classification for detecting hypoglycemia using only two EEG channels. , 2012, 2012, 3515-8.		11
115	Toward fewer EEG channels and better feature extractor of non-motor imagery mental tasks classification for a wheelchair thought controller. , 2012, 2012, 5266-9.		11
116	Analyzing EEG signals under insulin-induced hypoglycemia in type 1 diabetes patients. , 2013, 2013, 1980-3.		11
117	The advancement of an obstacle avoidance bayesian neural network for an intelligent wheelchair. , 2013, 2013, 3642-5.		11
118	Neural Network Based Diagonal Decoupling Control of Powered Wheelchair Systems. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014, 22, 371-378.	4.9	11
119	Discrete-time sliding mode control for networked systems with random communication delays. , 2015, , .		11
120	Online auto-calibration of triaxial accelerometer with time-variant model structures. <i>Sensors and Actuators A: Physical</i> , 2017, 266, 294-307.	4.1	11
121	A Telepresence Wheelchair with 360-Degree Vision Using WebRTC. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 369.	2.5	11
122	Identification of EEG Dynamics During Freezing of Gait and Voluntary Stopping in Patients With Parkinsonâ€™s Disease. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 1774-1783.	4.9	11
123	Prediction of Freezing of Gait in Patients with Parkinson's Disease Using EEG Signals. <i>Studies in Health Technology and Informatics</i> , 2018, 246, 124-131.	0.3	11
124	Advanced robust tracking control of a powered wheelchair system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 4767-70.	0.5	10
125	Increase in regularity and decrease in variability seen in electroencephalography (EEG) signals from alert to fatigue during a driving simulated task. , 2008, 2008, 1096-9.		10
126	Advanced obstacle avoidance for a laser based wheelchair using optimised Bayesian neural networks. , 2008, 2008, 3463-6.		10



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127	Electrocardiographic T-wave peak-to-end interval for hypoglycaemia detection. , 2010, 2010, 618-21.		10
128	Improving classification rates for use in fatigue countermeasure devices using brain activity. , 2010, 2010, 4460-3.		10
129	Lactate in the critically ill patients: an outcome marker with the times. Critical Care, 2011, 15, 1016.	5.8	10
130	Method for increasing the computation speed of an unsupervised learning approach for data clustering. , 2012, , .		10
131	Rule discovery and distance separation to detect reliable miRNA biomarkers for the diagnosis of lung squamous cell carcinoma. BMC Genomics, 2014, 15, S16.	2.8	10
132	A novel tamper detection-recovery and watermarking system for medical image authentication and EPR hiding. , 2014, 2014, 5554-7.		10
133	Classification of facial-emotion expression in the application of psychotherapy using Viola-Jones and Edge-Histogram of Oriented Gradient. , 2016, 2016, 423-426.		10
134	Detection of gait initiation Failure in Parkinson's disease based on wavelet transform and Support Vector Machine. , 2017, 2017, 3048-3051.		10
135	Does Heel Height Cause Imbalance during Sit-to-Stand Task: Surface EMG Perspective. Frontiers in Physiology, 2017, 8, 626.	2.8	10
136	Occipital EEG Activity for the Detection of Nocturnal Hypoglycemia. , 2018, 2018, 3862-3865.		10
137	Obstacle Avoidance for Power Wheelchair Using Bayesian Neural Network. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4771-4.	0.5	9
138	Semi-autonomous wheelchair system using stereoscopic cameras. , 2009, 2009, 5068-71.		9
139	Block based neural network for hypoglycemia detection. , 2011, 2011, 5666-9.		9
140	Intelligent fuzzy particle swarm optimization with cross-mutated operation. , 2012, , .		9
141	Fast unsupervised learning method for rapid estimation of cluster centroids. , 2012, , .		9
142	Hypoglycaemia detection using fuzzy inference system with multi-objective double wavelet mutation Differential Evolution. Applied Soft Computing Journal, 2013, 13, 2803-2811.	7.2	9
143	A collision avoidance strategy for safe autonomous navigation of an intelligent electric-powered wheelchair in dynamic uncertain environments with moving obstacles. , 2013, , .		9
144	The relationship between compression garments and electrocardiogram signals during exercise and recovery phase. BioMedical Engineering OnLine, 2019, 18, 27.	2.7	9

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145	Analysis and synthesis of nonlinear reciprocal networks containing two element types and transformers. IEEE Transactions on Circuits and Systems, 1980, 27, 263-276.	0.9	8
146	A self-organising fuzzy estimator for hypoglycaemia monitoring in diabetic patients. , 0, , .		8
147	Broad-spectrum antioxidant peptides derived from His residue-containing sequences present in human paraoxonase 1. Free Radical Research, 2006, 40, 349-358.	3.3	8
148	Productivity enhancement in a cross-flow ultrafiltration membrane system through automated de-clogging operations. Journal of Membrane Science, 2006, 280, 82-88.	8.2	8
149	Distributed classifier migration in xcs for classification of electroencephalographic signals. , 2007, , .		8
150	Human computer interaction using hand gesture. , 2008, 2008, 2357-60.		8
151	Performance of dry electrode with bristle in recording EEG rhythms across brain state changes. , 2011, 2011, 59-62.		8
152	Hybrid PSO-based variable translation wavelet neural network and its application to hypoglycemia detection system. Neural Computing and Applications, 2013, 23, 2177-2184.	5.6	8
153	An algorithm for scalable clustering: Ensemble Rapid Centroid Estimation. , 2014, , .		8
154	Channels selection using independent component analysis and scalp map projection for EEG-based driver fatigue classification. , 2017, 2017, 1808-1811.		8
155	Prediction of changes in bone mineral density in the elderly: contribution of "osteogenomic profile"; Archives of Osteoporosis, 2018, 13, 68.	2.4	8
156	A New Particle Swarm Optimization Algorithm for Neural Network Optimization. , 2009, , .		7
157	Fast tracking of a given heart rate profile in treadmill exercise. , 2010, 2010, 2569-72.		7
158	Hypoglycaemia detection for type 1 diabetic patients based on ECG parameters using Fuzzy Support Vector Machine. , 2010, , .		7
159	Semi-automatic control of modular systems with intermittent data losses. , 2011, , .		7
160	Optimization strategies for rapid centroid estimation. , 2012, 2012, 6212-5.		7
161	Mental task classifications using prefrontal cortex electroencephalograph signals. , 2012, 2012, 1831-4.		7
162	Mass Classification in Digitized Mammograms Using Texture Features and Artificial Neural Network. Lecture Notes in Computer Science, 2012, , 151-158.	1.3	7

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163	Non-invasive detection of hypoglycemic episodes in Type 1 diabetes using intelligent hybrid rough neural system. , 2014, , .		7
164	A novel extreme learning machine for hypoglycemia detection. , 2014, 2014, 302-5.		7
165	Modelling and regulating of cardio-respiratory response for the enhancement of interval training. BioMedical Engineering OnLine, 2014, 13, 9.	2.7	7
166	An efficient steganography method for hiding patient confidential information. , 2014, 2014, 222-5.		7
167	Controllability Analysis of Two-Dimensional Systems Using 1D Approaches. IEEE Transactions on Automatic Control, 2015, 60, 2977-2982.	5.7	7
168	A semi-autonomous motorized mobile hospital bed for safe transportation of head injury patients in dynamic hospital environments without bed switching. Robotica, 2016, 34, 1880-1897.	1.9	7
169	Identifying montages that best detect the electroencephalogram power spectrum alteration during freezing of gait in Parkinson's disease patients. , 2016, 2016, 6094-6097.		7
170	Nocturnal Hypoglycemia Detection using EEG Spectral Moments under Natural Occurrence Conditions. , 2019, 2019, 7177-7180.		7
171	Decentralised Model Predictive Control of Time-Varying Splitting Parallel Systems. , 2012, , 217-251.		7
172	Intelligent Management of Multiple Access Schemes in Wireless Body Area Network. Journal of Networks, 2015, 10, .	0.4	7
173	Using fuzzy logic reasoning for monitoring hypoglycaemia in diabetic patients. , 0, , .		6
174	Effects of mental fatigue on 8&#x2013;13Hz brain activity in people with spinal cord injury. , 2008, 2008, 5716-9.		6
175	Classification of hypoglycemic episodes for Type 1 diabetes mellitus based on neural networks. , 2010, , .		6
176	Development of a Bayesian recursive algorithm to find free-spaces for an intelligent wheelchair. , 2011, 2011, 7250-3.		6
177	Optimization of head movement recognition using Augmented Radial Basis Function Neural Network. , 2011, 2011, 2776-9.		6
178	Frequency analysis of eyes open and eyes closed EEG signals using the Hilbert-Huang Transform. , 2012, 2012, 2865-8.		6
179	Intelligent detection of hypoglycemic episodes in children with type 1 diabetes using adaptive neural-fuzzy inference system. , 2012, 2012, 6325-8.		6
180	System identification for Terahertz wave's propagation and reflection in human skin. , 2012, , .		6

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181	Unsupervised segmentation of heel-strike IMU data using rapid cluster estimation of wavelet features. , 2013, 2013, 953-6.		6
182	A new approach to improve the quality of biosensor signals using Fast Independent Component Analysis: Feasibility study using EMG recordings. , 2013, 2013, 1927-9.		6
183	Coupling Graphs, Efficient Algorithms and B-Cell Epitope Prediction. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2014, 11, 7-16.	3.0	6
184	High correlation of double Debye model parameters in skin cancer detection. , 2014, 2014, 718-21.		6
185	The Fuzzy Logic-Based Stator-Flux-Oriented Direct Torque Control for Three-Phase Asynchronous Motor. Journal of Control, Automation and Electrical Systems, 2014, 25, 46-54.	2.0	6
186	Designing adaptive integral sliding mode control for heart rate regulation during cycle-ergometer exercise using bio-feedback. , 2015, 2015, 6688-91.		6
187	Real-time transmission of panoramic images for a telepresence wheelchair. , 2015, 2015, 3565-8.		6
188	Selecting optimal EEG channels for mental tasks classification: An approach using ICA. , 2016, , .		6
189	Wireless Real-Time Head Movement System Using a Personal Digital Assistant (PDA) for Control of a Power Wheelchair. , 2005, 2005, 6235-8.		5
190	Virtual-Head Robot Tracking and Three-Point I-I Control for Multiple Mobile Robots. , 0, , .		5
191	Portable sensor based dynamic estimation of human oxygen uptake via nonlinear multivariable modelling. , 2008, 2008, 2431-4.		5
192	Stability of complex systems with mixed connection configurations under shared control. , 2010, , .		5
193	A method for decentralized formation building for unicycle-like mobile robots. , 2013, , .		5
194	Development of an assistive patient mobile system for hospital environments. , 2013, 2013, 2491-4.		5
195	An advanced control strategy of an electrical &#x2014; Powered hospital bed. , 2014, 2014, 1190-3.		5
196	Enhancing accuracy of mental fatigue classification using advanced computational intelligence in an electroencephalography system. , 2014, 2014, 1338-41.		5
197	Using microstate intensity for the analysis of spontaneous EEG: Tracking changes from alert to the fatigue state. , 2009, 2009, 4982-5.		4
198	Switching rate changes associated with mental fatigue for assistive technologies. , 2011, 2011, 3071-4.		4

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200	Real-time performance of a hands-free semi-autonomous wheelchair system using a combination of stereoscopic and spherical vision. , 2012, 2012, 3069-72.		4
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