Hung T Nguyen

List of Publications by Year in Descending Order

295 papers	**3,946** citations	**30** h-index	**50** g-index
321 ext. papers	**4,718** ext. citations	**2.5** avg, IF	**5.73** L-index

#	Paper	IF	Citations
295	Robust tracking control of a differential drive wheeled mobile robot using fast nonsingular terminal sliding mode. *Computers and Electrical Engineering*, **2021**, 96, 107488	4.3	1
294	Identification of EEG Dynamics During Freezing of Gait and Voluntary Stopping in Patients With Parkinson's Disease. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2021**, 29, 1774-1783	4.8	2
293	The Effect of Hypoglycemia on Spectral Moments in EEG Epochs of Different Durations in Type 1 Diabetes Patients. *IEEE Journal of Biomedical and Health Informatics*, **2021**, 25, 2857-2865	7.2	1
292	The influence of mental fatigue on brain activity: Evidence from a systematic review with meta-analyses. *Psychophysiology*, **2020**, 57, e13554	4.1	43
291	A Telepresence Wheelchair with 360-Degree Vision Using WebRTC. *Applied Sciences (Switzerland)*, **2020**, 10, 369	2.6	1
290	Statistical Analysis of Brain Connectivity Estimators during Distracted Driving. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2020**, 2020, 3208-3211	0.9	
289	Electroencephalogram Reactivity to Hyperglycemia in Patients with Type 1 Diabetes. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2020**, 2020, 5224-5227	0.9	
288	Electroencephalogram Spectral Moments for the Detection of Nocturnal Hypoglycemia. *IEEE Journal of Biomedical and Health Informatics*, **2020**, 24, 1237-1245	7.2	7
287	Comparing the Effects of Three Cognitive Tasks on Indicators of Mental Fatigue. *Journal of Psychology: Interdisciplinary and Applied*, **2019**, 153, 759-783	2.7	53
286	A fast-converge, real-time auto-calibration algorithm for triaxial accelerometer. *Measurement Science and Technology*, **2019**, 30, 065010	2	2
285	The relationship between compression garments and electrocardiogram signals during exercise and recovery phase. *BioMedical Engineering OnLine*, **2019**, 18, 27	4.1	8
284	Nocturnal Hypoglycemia Detection using EEG Spectral Moments under Natural Occurrence Conditions. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 7177-7180	0.9	4
283	A Hybrid Physiological Approach of Emotional Reaction Detection Using Combined FCM and SVM Classifier. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 7088-7091	0.9	1
282	Combining ICA Clustering and Power Spectral Density for Feature Extraction of Mental Fatigue of Spinal Cord Injury Patients. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 530-533	0.9	0
281	Nocturnal Hypoglycemia Detection using Optimal Bayesian Algorithm in an EEG Spectral Moments Based System. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 5438-5442	0.9	1
280	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	3.6	14
279	An ICA-EBM-Based sEMG Classifier for Recognizing Lower Limb Movements in Individuals With and Without Knee Pathology. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2018**, 26, 675-686	4.8	29

278	Dynamic characteristics of oxygen consumption. *BioMedical Engineering OnLine*, **2018**, 17, 44	4.1	2
277	Occipital EEG Activity for the Detection of Nocturnal Hypoglycemia. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 3862-3865	0.9	6
276	Effect Of Compression Garments On Cardiovascular Function During Recovery Phase. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 2869-2872	0.9	1
275	The Effectiveness Of Compression Garments On EEG During a Running Test. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 3032-3035	0.9	
274	Sparsely distributed sliding mode control for interconnected systems. *Journal of the Franklin Institute*, **2018**, 355, 6191-6214	4	2
273	Nonparametric dynamical model of cardiorespiratory responses at the onset and offset of treadmill exercises. *Medical and Biological Engineering and Computing*, **2018**, 56, 2337-2351	3.1	1
272	Prediction of changes in bone mineral density in the elderly: contribution of "osteogenomic profile". *Archives of Osteoporosis*, **2018**, 13, 68	2.9	6
271	Prediction of Freezing of Gait in Patients with Parkinson's Disease Using EEG Signals. *Studies in Health Technology and Informatics*, **2018**, 246, 124-131	0.5	10
270	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	7.2	147
269	Hypoglycemia detection: multiple regression-based combinational neural logic approach. *Soft Computing*, **2017**, 21, 543-553	3.5	5
268	Hybrid brain-computer interface for biomedical cyber-physical system application using wireless embedded EEG systems. *BioMedical Engineering OnLine*, **2017**, 16, 5	4.1	12
267	EEG emotion recognition using reduced channel wavelet entropy and average wavelet coefficient features with normal Mutual Information method. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 463-466	0.9	11
266	EEG-based emotion classification using innovative features and combined SVM and HMM classifier. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 489-492	0.9	21
265	Online auto-calibration of triaxial accelerometer with time-variant model structures. *Sensors and Actuators A: Physical*, **2017**, 266, 294-307	3.9	8
264	The classification for "equilibrium triad" sensory loss based on sEMG signals of calf muscles. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 2142-2145	0.9	
263	Detection of turning freeze in Parkinson's disease based on S-transform decomposition of EEG signals. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 3044-3047	0.9	10
262	Multiloop Integral Controllability Analysis for Nonlinear Multiple-Input Single-Output Processes. *Industrial & Engineering Chemistry Research*, **2017**, 56, 8054-8065	3.9	2
261	Prediction of Bone Mineral Density and Fragility Fracture by Genetic Profiling. *Journal of Bone and Mineral Research*, **2017**, 32, 285-293	6.3	30

260	Differences in lower limb muscle activation patterns during Sit to Stand Task for different heel heights. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 2486-2489	0.9	1
259	Channels selection using independent component analysis and scalp map projection for EEG-based driver fatigue classification. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 1808-1811	0.9	8
258	Sparse Observer-Based Sliding Mode Control For Networked Control Systems. *IFAC-PapersOnLine*, **2017**, 50, 12997-13002	0.7	2
257	Polypyrrole RVC biofuel cells for powering medical implants. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 779-782	0.9	2
256	Nonparametric modelling of VO response to exercise. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 1525-1528	0.9	
255	A CHF detection method based on deep learning with RR intervals. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 3369-3372	0.9	14
254	Detection of gait initiation Failure in Parkinsons disease based on wavelet transform and Support Vector Machine. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 3048-3051	0.9	8
253	Real-time WebRTC-based design for a telepresence wheelchair. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 2676-2679	0.9	1
252	Prediction of hip fracture in post-menopausal women using artificial neural network approach. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 4207-4210	0.9	8
251	Does Heel Height Cause Imbalance during Sit-to-Stand Task: Surface EMG Perspective. *Frontiers in Physiology*, **2017**, 8, 626	4.6	5
250	Improving EEG-Based Driver Fatigue Classification Using Sparse-Deep Belief Networks. *Frontiers in Neuroscience*, **2017**, 11, 103	5.1	80
249	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, 734-43	4.8	88
248	Distributed formation building algorithms for groups of wheeled mobile robots. *Robotics and Autonomous Systems*, **2016**, 75, 463-474	3.5	23
247	Quality and robustness improvement for real world industrial systems using a fuzzy particle swarm optimization. *Engineering Applications of Artificial Intelligence*, **2016**, 47, 68-80	7.2	25
246	Principal Component Analysis Applied to Surface Electromyography: A Comprehensive Review. *IEEE Access*, **2016**, 4, 4025-4037	3.5	43
245	Effect of growth solution, membrane size and array connection on microbial fuel cell power supply for medical devices. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 1846-1849	0.9	2
244	EEG-based driver fatigue detection using hybrid deep generic model. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 800-803	0.9	13
243	Identifying montages that best detect the electroencephalogram power spectrum alteration during freezing of gait in Parkinsons disease patients. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 6094-6097	0.9	5

242	Detection of gait initiation failure in Parkinson's disease patients using EEG signals. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 1599-1602	0.9	9
241	A telepresence wheelchair using cellular network infrastructure in outdoor environments. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 5352-5355	0.9	3
240	Classification of EEG based-mental fatigue using principal component analysis and Bayesian neural network. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 4654-4657	0.9	19
239	Classification of facial-emotion expression in the application of psychotherapy using Viola-Jones and Edge-Histogram of Oriented Gradient. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, 2016, 2016, 423-426	0.9	3
238	Deep learning framework for detection of hypoglycemic episodes in children with type 1 diabetes. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 3503-3506	0.9	20
237	Non-invasive hypoglycemia monitoring system using extreme learning machine for Type 1 diabetes. *ISA Transactions*, **2016**, 64, 440-446	5.5	35
236	On LMI-based sliding mode control for uncertain discrete-time systems. *Journal of the Franklin Institute*, **2016**, 353, 3857-3875	4	20
235	Hypotension Risk Prediction via Sequential Contrast Patterns of ICU Blood Pressure. *IEEE Journal of Biomedical and Health Informatics*, **2016**, 20, 1416-1426	7.2	24
234	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, 837-46	4.8	98
233	Cardiovascular fitness strengthening using portable device. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 2692-2695	0.9	1
232	Predicting short-term ICU outcomes using a sequential contrast motif based classification framework. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 5612-5615	0.9	2
231	Heart rate regulation during cycle-ergometer exercise using damped parameter estimation method. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 2676-2679	0.9	2
230	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	2.1	3
229	Real-time video streaming with multi-camera for a telepresence wheelchair **2016**,		3
228	An online recursive autocalibration of triaxial accelerometer. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 2038-2041	0.9	
227	H2-based optimal sparse sliding mode control for networked control systems **2016**,		1
226	Real-time modelling of heart rate response during exercise using a novel constrained parameter estimation method. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 2680-2683	0.9	
225	Wavelet PCA for automatic identification of walking with and without an exoskeleton on a treadmill using pressure and accelerometer sensors. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 1999-2002	0.9	3

224	The hybrid bio-inspired aerial vehicle: Concept and SIMSCAPE flight simulation. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 2107-2110	0.9	1
223	**2016**,		3
222	Stabilising the networked control systems involving actuation and measurement consecutive packet losses. *IET Control Theory and Applications*, **2016**, 10, 1269-1280	2.5	17
221	Analysis and Prediction of the Freezing of Gait Using EEG Brain Dynamics. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2015**, 23, 887-96	4.8	59
220	Discrete-time sliding mode control for networked systems with random communication delays **2015**,		9
219	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, 744-54	4.8	21
218	Controllability Analysis of Two-Dimensional Systems Using 1D Approaches. *IEEE Transactions on Automatic Control*, **2015**, 60, 2977-2982	5.9	5
217	Nonlinear multiscale Maximal Lyapunov Exponent for accurate myoelectric signal classification. *Applied Soft Computing Journal*, **2015**, 36, 633-640	7.5	42
216	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	7.2	77
215	Robust output-feedback discrete-time sliding mode control utilizing disturbance observer **2015**,		1
214	Multiscale PCA to distinguish regular and irregular surfaces using tri axial head and trunk acceleration signals. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 4122-5	0.9	2
213	Comparing features extractors in EEG-based cognitive fatigue detection of demanding computer tasks. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 7594-7	0.9	1
212	Investigation of window size in classification of EEG-emotion signal with wavelet entropy and support vector machine. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 7250-3	0.9	62
211	Neural network decoupling technique and its application to a powered wheelchair system. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 4586-9	0.9	
210	Designing adaptive integral sliding mode control for heart rate regulation during cycle-ergometer exercise using bio-feedback. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 6688-91	0.9	3
209	Heart rate regulation during cycle-ergometer exercise via bio-feedback. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 4639-42	0.9	2
208	Experimenting with microbial fuel cells for powering implanted biomedical devices. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 2685-8	0.9	2
207	Recognizing emotions from EEG subbands using wavelet analysis. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 6030-3	0.9	15

206	A novel target following solution for the electric powered hospital bed. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 3569-72	0.9	
205	Classification of driver fatigue in an electroencephalography-based countermeasure system with source separation module. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, 2015, 2015, 514-7	0.9	2
204	Real-time transmission of panoramic images for a telepresence wheelchair. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 3565-8	0.9	5
203	Breast Cancer classification using extracted parameters from a terahertz dielectric model of human breast tissue. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 2804-7	0.9	1
202	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	3.4	19
201	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	7.2	22
200	An EEG study of turning freeze in Parkinson's disease patients: The alteration of brain dynamic on the motor and visual cortex. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 6618-21	0.9	14
199	Decentralised model predictive control with stability constraints and its application in process control. *Journal of Process Control*, **2015**, 26, 73-89	3.9	12
198	Decentralized Integral Controllability Analysis Based on a New Unconditional Stability Criterion. *IEEE Transactions on Automatic Control*, **2015**, 60, 211-215	5.9	1
197	A dielectric model of human breast tissue in terahertz regime. *IEEE Transactions on Biomedical Engineering*, **2015**, 62, 699-707	5	42
196	Intelligent Management of Multiple Access Schemes in Wireless Body Area Network. *Journal of Networks*, **2015**, 10,		6
195	Modelling and regulating of cardio-respiratory response for the enhancement of interval training. *BioMedical Engineering OnLine*, **2014**, 13, 9	4.1	6
194	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	1.5	5
193	An efficient steganography method for hiding patient confidential information. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 222-5	0.9	4
192	A novel tamper detection-recovery and watermarking system for medical image authentication and EPR hiding. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 5554-7	0.9	8
191	Enhancing accuracy of mental fatigue classification using advanced computational intelligence in an electroencephalography system. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, 2014, 2014, 1338-41	0.9	1
190	Using S-transform in EEG analysis for measuring an alert versus mental fatigue state. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 5880-3	0.9	2
189	A new unconditionally stable condition based on singular perturbation analysis. *International Journal of Control*, **2014**, 87, 464-472	1.5	

188	Data Clustering Using Variants of Rapid Centroid Estimation. *IEEE Transactions on Evolutionary Computation*, **2014**, 18, 366-377	15.6	34
187	Brain-computer interface classifier for wheelchair commands using neural network with fuzzy particle swarm optimization. *IEEE Journal of Biomedical and Health Informatics*, **2014**, 18, 1614-24	7.2	51
186	Neural network based diagonal decoupling control of powered wheelchair systems. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2014**, 22, 371-8	4.8	10
185	Abnormal patterns of theta frequency oscillations during the temporal evolution of freezing of gait in Parkinson's disease. *Clinical Neurophysiology*, **2014**, 125, 569-76	4.3	69
184	Unsupervised nonparametric method for gait analysis using a waist-worn inertial sensor. *Applied Soft Computing Journal*, **2014**, 14, 72-80	7.5	25
183	Advanced portable remote monitoring system for the regulation of treadmill running exercises. *Artificial Intelligence in Medicine*, **2014**, 61, 119-26	7.4	10
182	Neural network approach for non-invasive detection of hyperglycemia using electrocardiographic signals. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 4475-8	0.9	12
181	Prediction of freezing of gait using analysis of brain effective connectivity. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 4119-22	0.9	4
180	An algorithm for scalable clustering: Ensemble Rapid Centroid Estimation **2014**,		7
179	Non-invasive detection of hypoglycemic episodes in Type 1 diabetes using intelligent hybrid rough neural system **2014**,		5
178	Coupling Graphs, Efficient Algorithms and B-Cell Epitope Prediction. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2014**, 11, 7-16	3	5
177	An advanced control strategy of an electrical--powered hospital bed. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 1190-3	0.9	3
176	Classification of finger extension and flexion of EMG and Cyberglove data with modified ICA weight matrix. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 3829-32	0.9	14
175	A simple microbial fuel cell model for improvement of biomedical device powering times. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 634-7	0.9	3
174	A novel extreme learning machine for hypoglycemia detection. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 302-5	0.9	3
173	On heart rate regulation in cycle-ergometer exercise. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 3390-3	0.9	2
172	High correlation of double Debye model parameters in skin cancer detection. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 718-21	0.9	5
171	Evolvable rough-block-based neural network and its biomedical application to hypoglycemia detection system. *IEEE Transactions on Cybernetics*, **2014**, 44, 1338-49	10.2	30

170	Rule discovery and distance separation to detect reliable miRNA biomarkers for the diagnosis of lung squamous cell carcinoma. *BMC Genomics*, **2014**, 15 Suppl 9, S16	4.5	10
169	Age-related differences in biomarkers of acute inflammation during hospitalization for sepsis. *Shock*, **2014**, 42, 99-107	3.4	12
168	An equivalent circuit model for onset and offset exercise response. *BioMedical Engineering OnLine*, **2014**, 13, 145	4.1	12
167	A new LMI-based robust Sliding Mode Control for the uncertain discrete-time systems **2014**,		2
166	Using Blind Source Separation on accelerometry data to analyze and distinguish the toe walking gait from normal gait in ITW children. *Biomedical Signal Processing and Control*, **2014**, 13, 41-49	4.9	35
165	Hybrid PSO-based variable translation wavelet neural network and its application to hypoglycemia detection system. *Neural Computing and Applications*, **2013**, 23, 2177-2184	4.8	8
164	Hypoglycaemia detection using fuzzy inference system with multi-objective double wavelet mutation Differential Evolution. *Applied Soft Computing Journal*, **2013**, 13, 2803-2811	7.5	9
163	Near-infrared parameters extraction: A potential method to detect skin cancer. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 33-6	0.9	1
162	Single channel blind source separation based local mean decomposition for biomedical applications. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 6812-5	0.9	21
161	Structural analysis on mutation residues and interfacial water molecules for human TIM disease understanding. *BMC Bioinformatics*, **2013**, 14 Suppl 16, S11	3.6	14
160	Unsupervised segmentation of heel-strike IMU data using rapid cluster estimation of wavelet features. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 953-6	0.9	3
159	Industrial Application of Evolvable Block-Based Neural Network to Hypoglycemia Monitoring System. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 5892-5901	8.9	13
158	Combinational neural logic system and its industrial application on hypoglycemia monitoring system **2013**,		2
157	A method for decentralized formation building for unicycle-like mobile robots **2013**,		1
156	Debye parameter extraction for characterizing interaction of terahertz radiation with human skin tissue. *IEEE Transactions on Biomedical Engineering*, **2013**, 60, 1528-37	5	20
155	Analyzing EEG signals under insulin-induced hypoglycemia in type 1 diabetes patients. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 1980-3	0.9	9
154	Classification of wheelchair commands using brain computer interface: comparison between able-bodied persons and patients with tetraplegia. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 989-92	0.9	3
153	Combining genetic algorithm and Levenberg-Marquardt algorithm in training neural network for hypoglycemia detection using EEG signals. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 5386-9	0.9	15

152	Experimental study on a smart wheelchair system using a combination of stereoscopic and spherical vision. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 4597-600	0.9	17
151	Development of an assistive patient mobile system for hospital environments. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 2491-4	0.9	3
150	The advancement of an obstacle avoidance Bayesian neural network for an intelligent wheelchair. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 3642-5	0.9	10
149	The application of Discrete sliding mode control in parabolic PDE dynamics **2013**,		1
148	Effects of hyperglycemia on variability of RR, QT and corrected QT intervals in Type 1 diabetic patients. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 1819-22	0.9	10
147	Shared control strategies for human-machine interface in an intelligent wheelchair. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 3638-41	0.9	11
146	A new approach to improve the quality of biosensor signals using Fast Independent Component Analysis: feasibility study using EMG recordings. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 1927-9	0.9	5
145	Using EEG spatial correlation, cross frequency energy, and wavelet coefficients for the prediction of Freezing of Gait in Parkinson's Disease patients. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 4263-6	0.9	15
144	A collision avoidance strategy for safe autonomous navigation of an intelligent electric-powered wheelchair in dynamic uncertain environments with moving obstacles **2013**,		5
143	Intelligent Fault Detection and Isolation of HVAC System Based on Online Support Vector Machine **2012**, 287-304		
142	Nonlinear Modeling Using Support Vector Machine for Heart Rate Response to Exercise **2012**, 255-270		0
141	Machine Learning-based Nonlinear Model Predictive Control for Heart Rate Response to Exercise **2012**, 271-285		0
140	A hypoglycemic episode diagnosis system based on neural networks for Type 1 diabetes mellitus **2012**,		1
139	Mental non-motor imagery tasks classifications of brain computer interface for wheelchair commands using genetic algorithm-based neural network **2012**,		17
138	Natural occurrence of nocturnal hypoglycemia detection using hybrid particle swarm optimized fuzzy reasoning model. *Artificial Intelligence in Medicine*, **2012**, 55, 177-84	7.4	26
137	Optimized variable translation wavelet neural network and its application in hypoglycemia detection system **2012**,		2
136	Mental task classifications using prefrontal cortex electroencephalograph signals. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2012**, 2012, 1831-4	0.9	5
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9	Performance of a head-movement interface for wheelchair control		8

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7	Hands-free control of power wheelchairs using Bayesian neural network classification	2
6	A novel fuzzy neural network estimator for predicting hypoglycaemia in insulin-induced subjects	11
5	A self-organising fuzzy estimator for hypoglycaemia monitoring in diabetic patients	8
4	Improved Head Direction Command Classification using an Optimised Bayesian Neural Network	1
3	Neural-Network Detection of Hypoglycemic Episodes in Children with Type 1 Diabetes using Physiological Parameters	1
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