

# Hung T Nguyen

## List of Publications by Citations

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Development of an algorithm for an EEG-based driver fatigue countermeasure. <i>Journal of Safety Research</i> , <b>2003</b> , 34, 321-8	4	223
294	Regional brain wave activity changes associated with fatigue. <i>Psychophysiology</i> , <b>2012</b> , 49, 574-82	4.1	183
293	Driver Fatigue Classification With Independent Component by Entropy Rate Bound Minimization Analysis in an EEG-Based System. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2017</b> , 21, 715-724	7.2	147
292	Transradial Amputee Gesture Classification Using an Optimal Number of sEMG Sensors: An Approach Using ICA Clustering. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2016</b> , 24, 837-46	4.8	98
291	Single-Channel EMG Classification With Ensemble-Empirical-Mode-Decomposition-Based ICA for Diagnosing Neuromuscular Disorders. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2016</b> , 24, 734-43	4.8	88
290	Outcome effectiveness of the severe sepsis resuscitation bundle with addition of lactate clearance as a bundle item: a multi-national evaluation. <i>Critical Care</i> , <b>2011</b> , 15, R229	10.8	87
289	Improving EEG-Based Driver Fatigue Classification Using Sparse-Deep Belief Networks. <i>Frontiers in Neuroscience</i> , <b>2017</b> , 11, 103	5.1	80
288	A new approach to backwash initiation in membrane systems. <i>Journal of Membrane Science</i> , <b>2006</b> , 278, 381-389	9.6	78
287	Nonnegative matrix factorization for the identification of EMG finger movements: evaluation using matrix analysis. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2015</b> , 19, 478-485	7.2	77
286	Abnormal patterns of theta frequency oscillations during the temporal evolution of freezing of gait in Parkinson's disease. <i>Clinical Neurophysiology</i> , <b>2014</b> , 125, 569-76	4.3	69
285	Investigation of window size in classification of EEG-emotion signal with wavelet entropy and support vector machine. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 7250-3	0.9	62
284	Analysis and Prediction of the Freezing of Gait Using EEG Brain Dynamics. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2015</b> , 23, 887-96	4.8	59
283	Unsupervised machine-learning method for improving the performance of ambulatory fall-detection systems. <i>BioMedical Engineering OnLine</i> , <b>2012</b> , 11, 9	4.1	57
282	Triangularization technique for the design of multivariable control systems. <i>IEEE Transactions on Automatic Control</i> , <b>1979</b> , 24, 455-460	5.9	56
281	Comparing the Effects of Three Cognitive Tasks on Indicators of Mental Fatigue. <i>Journal of Psychology: Interdisciplinary and Applied</i> , <b>2019</b> , 153, 759-783	2.7	53
280	Brain-computer interface classifier for wheelchair commands using neural network with fuzzy particle swarm optimization. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2014</b> , 18, 1614-24	7.2	51
279	Design of a generic control system for optimising back flush durations in a submerged membrane hybrid reactor. <i>Journal of Membrane Science</i> , <b>2005</b> , 255, 99-106	9.6	51

278	Diagnosis of hypoglycemic episodes using a neural network based rule discovery system. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 9799-9808	7.8	47
277	The detection of Freezing of Gait in Parkinson's disease patients using EEG signals based on Wavelet decomposition. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 69-72	0.9	46
276	Electrocardiographic signals and swarm-based support vector machine for hypoglycemia detection. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 934-45	4.7	45
275	The influence of mental fatigue on brain activity: Evidence from a systematic review with meta-analyses. <i>Psychophysiology</i> , <b>2020</b> , 57, e13554	4.1	43
274	Principal Component Analysis Applied to Surface Electromyography: A Comprehensive Review. <i>IEEE Access</i> , <b>2016</b> , 4, 4025-4037	3.5	43
273	Nonlinear multiscale Maximal Lyapunov Exponent for accurate myoelectric signal classification. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 36, 633-640	7.5	42
272	A dielectric model of human breast tissue in terahertz regime. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2015</b> , 62, 699-707	5	42
271	Dynamic output feedback sliding-mode control using pole placement and linear functional observers. <i>IEEE Transactions on Industrial Electronics</i> , <b>2003</b> , 50, 1030-1037	8.9	40
270	A submerged membrane hybrid system coupled with magnetic ion exchange (MIEX®) and flocculation in wastewater treatment. <i>Desalination</i> , <b>2007</b> , 216, 325-333	10.3	39
269	Non-invasive hypoglycemia monitoring system using extreme learning machine for Type 1 diabetes. <i>ISA Transactions</i> , <b>2016</b> , 64, 440-446	5.5	35
268	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> , <b>2014</b> , 13, 41-49	4.9	35
267	Data Clustering Using Variants of Rapid Centroid Estimation. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2014</b> , 18, 366-377	15.6	34
266	Genetic-algorithm-based multiple regression with fuzzy inference system for detection of nocturnal hypoglycemic episodes. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2011</b> , 15, 308-15		32
265	Prediction of Bone Mineral Density and Fragility Fracture by Genetic Profiling. <i>Journal of Bone and Mineral Research</i> , <b>2017</b> , 32, 285-293	6.3	30
264	Evolvable rough-block-based neural network and its biomedical application to hypoglycemia detection system. <i>IEEE Transactions on Cybernetics</i> , <b>2014</b> , 44, 1338-49	10.2	30
263	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> , <b>2018</b> , 26, 675-686	4.8	29
262	Natural occurrence of nocturnal hypoglycemia detection using hybrid particle swarm optimized fuzzy reasoning model. <i>Artificial Intelligence in Medicine</i> , <b>2012</b> , 55, 177-84	7.4	26
261	Early driver fatigue detection from electroencephalography signals using artificial neural networks. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 2187-90		26

260	Quality and robustness improvement for real world industrial systems using a fuzzy particle swarm optimization. <i>Engineering Applications of Artificial Intelligence</i> , <b>2016</b> , 47, 68-80	7.2	25
259	Unsupervised nonparametric method for gait analysis using a waist-worn inertial sensor. <i>Applied Soft Computing Journal</i> , <b>2014</b> , 14, 72-80	7.5	25
258	Intelligent technologies for real-time biomedical engineering applications. <i>International Journal of Automation and Control</i> , <b>2008</b> , 2, 274	1.8	25
257	Detection of nocturnal hypoglycemic episodes (natural occurrence) in children with Type 1 diabetes using an optimal Bayesian neural network algorithm. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 1311-4	0.9	25
256	Detecting neural changes during stress and fatigue effectively: a comparison of spectral analysis and sample entropy <b>2007</b> ,		25
255	Hypotension Risk Prediction via Sequential Contrast Patterns of ICU Blood Pressure. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2016</b> , 20, 1416-1426	7.2	24
254	Robust neuro-sliding mode multivariable control strategy for powered wheelchairs. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2011</b> , 19, 105-11	4.8	24
253	Distributed formation building algorithms for groups of wheeled mobile robots. <i>Robotics and Autonomous Systems</i> , <b>2016</b> , 75, 463-474	3.5	23
252	Discrimination of left and right leg motor imagery for brain-computer interfaces. <i>Medical and Biological Engineering and Computing</i> , <b>2010</b> , 48, 343-50	3.1	23
251	Neural-network detection of hypoglycemic episodes in children with type 1 diabetes using physiological parameters. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 6053-6		23
250	Dependence Independence Measure for Posterior and Anterior EMG Sensors Used in Simple and Complex Finger Flexion Movements: Evaluation Using SDICA. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2015</b> , 19, 1689-1696	7.2	22
249	An Intelligent Robotic Hospital Bed for Safe Transportation of Critical Neurosurgery Patients Along Crowded Hospital Corridors. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2015</b> , 23, 744-54	4.8	21
248	Single channel blind source separation based local mean decomposition for biomedical applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 6812-5	0.9	21
247	EEG-based emotion classification using innovative features and combined SVM and HMM classifier. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 489-492	0.9	21
246	Fluidized bed magnetic ion exchange (MIEX <sup>®</sup> ) as pre-treatment process for a submerged membrane reactor in wastewater treatment and reuse. <i>Desalination</i> , <b>2008</b> , 227, 85-93	10.3	21
245	Adaptive EEG thought pattern classifier for advanced wheelchair control. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 2544-7		21
244	Deep learning framework for detection of hypoglycemic episodes in children with type 1 diabetes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 3503-3506	0.9	20
243	On LMI-based sliding mode control for uncertain discrete-time systems. <i>Journal of the Franklin Institute</i> , <b>2016</b> , 353, 3857-3875	4	20

242	Debye parameter extraction for characterizing interaction of terahertz radiation with human skin tissue. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2013</b> , 60, 1528-37	5	20
241	Study of a semi-active stiffness damper under various earthquake inputs. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2002</b> , 31, 1757-1776	4	20
240	Classification of EEG based-mental fatigue using principal component analysis and Bayesian neural network. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 4654-4657	0.9	19
239	The Potential of the Double Debye Parameters to Discriminate Between Basal Cell Carcinoma and Normal Skin. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2015</b> , 5, 990-998	3.4	19
238	Detection of nocturnal hypoglycemic episodes using EEG signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 4930-3	0.9	19
237	Dominant risk factors for retinopathy at clinical diagnosis in patients with type II diabetes mellitus. <i>Journal of Diabetes and Its Complications</i> , <b>1996</b> , 10, 211-9	3.2	18
236	Mental non-motor imagery tasks classifications of brain computer interface for wheelchair commands using genetic algorithm-based neural network <b>2012</b> ,		17
235	Experimental study on a smart wheelchair system using a combination of stereoscopic and spherical vision. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 4597-600	0.9	17
234	Stabilising the networked control systems involving actuation and measurement consecutive packet losses. <i>IET Control Theory and Applications</i> , <b>2016</b> , 10, 1269-1280	2.5	17
233	Continued psychometric evaluation of an intuition instrument for nursing students. <i>Journal of Holistic Nursing</i> , <b>2006</b> , 24, 82-9	2.9	16
232	Recognizing emotions from EEG subbands using wavelet analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 6030-3	0.9	15
231	Combining genetic algorithm and Levenberg-Marquardt algorithm in training neural network for hypoglycemia detection using EEG signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International</i>	0.9	15
230	Using EEG spatial correlation, cross frequency energy, and wavelet coefficients for the prediction of Freezing of Gait in Parkinson's Disease patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 4263-6	0.9	15
229	Shared control strategies for obstacle avoidance tasks in an intelligent wheelchair. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 4254-7	0.9	15
228	Structural analysis on mutation residues and interfacial water molecules for human TIM disease understanding. <i>BMC Bioinformatics</i> , <b>2013</b> , 14 Suppl 16, S11	3.6	14
227	A CHF detection method based on deep learning with RR intervals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 3369-3372	0.9	14
226	An EEG study of turning freeze in Parkinson's disease patients: The alteration of brain dynamic on the motor and visual cortex. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 6618-21	0.9	14
225	Classification of finger extension and flexion of EMG and Cyberglove data with modified ICA weight matrix. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 3829-32	0.9	14

224	Evolved fuzzy reasoning model for hypoglycaemic detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 4662-5	0.9	14
223	Transient and steady state estimation of human oxygen uptake based on noninvasive portable sensor measurements. <i>Medical and Biological Engineering and Computing</i> , <b>2009</b> , 47, 1111-7	3.1	14
222	Identification of hypoglycemic states for patients with T1DM using various parameters derived from EEG signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 2760-3	0.9	14
221	Mixed H <sub>2</sub> /H <sub>∞</sub> control of tall buildings with reduced-order modelling technique. <i>Structural Control and Health Monitoring</i> , <b>2008</b> , 15, 64-89	4.5	14
220	A Hybrid Fuzzy Cognitive Map/Support Vector Machine Approach for EEG-Based Emotion Classification Using Compressed Sensing. <i>International Journal of Fuzzy Systems</i> , <b>2019</b> , 21, 263-273	3.6	14
219	EEG-based driver fatigue detection using hybrid deep generic model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 800-803	0.9	13
218	Industrial Application of Evolvable Block-Based Neural Network to Hypoglycemia Monitoring System. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 5892-5901	8.9	13
217	Classification of EEG signals using a genetic-based machine learning classifier. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 3120-3		13
216	Real-time head movement system and embedded Linux implementation for the control of power wheelchairs. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2004</b> , 2004, 4892-5		13
215	Robust Non-Overshoot Time Responses Using Cascade Sliding Mode-PID Control. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , <b>2007</b> , 11, 1224-1231	0.4	13
214	Hybrid brain-computer interface for biomedical cyber-physical system application using wireless embedded EEG systems. <i>BioMedical Engineering OnLine</i> , <b>2017</b> , 16, 5	4.1	12
213	Decentralised model predictive control with stability constraints and its application in process control. <i>Journal of Process Control</i> , <b>2015</b> , 26, 73-89	3.9	12
212	Neural network approach for non-invasive detection of hyperglycemia using electrocardiographic signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 4475-8	0.9	12
211	Age-related differences in biomarkers of acute inflammation during hospitalization for sepsis. <i>Shock</i> , <b>2014</b> , 42, 99-107	3.4	12
210	An equivalent circuit model for onset and offset exercise response. <i>BioMedical Engineering OnLine</i> , <b>2014</b> , 13, 145	4.1	12
209	Real-time detection of nocturnal hypoglycemic episodes using a novel non-invasive hypoglycemia monitor. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 3822-5	0.9	12
208	HYBRID FUZZY LOGIC-BASED PARTICLE SWARM OPTIMIZATION FOR FLOW SHOP SCHEDULING PROBLEM. <i>International Journal of Computational Intelligence and Applications</i> , <b>2011</b> , 10, 335-356	1.2	12
207	Application of an automation system and a supervisory control and data acquisition (SCADA) system for the optimal operation of a membrane adsorption hybrid system. <i>Water Science and Technology</i> , <b>2006</b> , 53, 179-84	2.2	12

206	Brain-Computer Interface-FES Integration: Towards a Hands-free Neuroprosthesis Command System. <i>Neuromodulation</i> , <b>2004</b> , 7, 267-76	3.1	12
205	Hands-free Head-movement Gesture Recognition using Artificial Neural Networks and the Magnified Gradient Function. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2005</b> , 2005, 2063-6		12
204	EEG emotion recognition using reduced channel wavelet entropy and average wavelet coefficient features with normal Mutual Information method. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 463-466	0.9	11
203	Shared control strategies for human-machine interface in an intelligent wheelchair. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 3638-41	0.9	11
202	Detection of hypoglycemic episodes in children with type 1 diabetes using an optimal Bayesian neural network algorithm. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 3140-3		11
201	A novel fuzzy neural network estimator for predicting hypoglycaemia in insulin-induced subjects		11
200	Neural network based diagonal decoupling control of powered wheelchair systems. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2014</b> , 22, 371-8	4.8	10
199	Advanced portable remote monitoring system for the regulation of treadmill running exercises. <i>Artificial Intelligence in Medicine</i> , <b>2014</b> , 61, 119-26	7.4	10
198	Detection of turning freeze in Parkinson's disease based on S-transform decomposition of EEG signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 3044-3047	0.9	10
197	Rule discovery and distance separation to detect reliable miRNA biomarkers for the diagnosis of lung squamous cell carcinoma. <i>BMC Genomics</i> , <b>2014</b> , 15 Suppl 9, S16	4.5	10
196	The advancement of an obstacle avoidance Bayesian neural network for an intelligent wheelchair. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 3642-5	0.9	10
195	Effects of hyperglycemia on variability of RR, QT and corrected QT intervals in Type 1 diabetic patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 1819-22	0.9	10
194	Improving classification rates for use in fatigue countermeasure devices using brain activity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 4460-3	0.9	10
193	Identification of hypoglycemia and hyperglycemia in type 1 diabetic patients using ECG parameters. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 2716-9	0.9	10
192	Computational Intelligence and Its Applications <b>2012</b> ,		10
191	Prediction of Freezing of Gait in Patients with Parkinson's Disease Using EEG Signals. <i>Studies in Health Technology and Informatics</i> , <b>2018</b> , 246, 124-131	0.5	10
190	Discrete-time sliding mode control for networked systems with random communication delays <b>2015</b> ,		9
189	Detection of gait initiation failure in Parkinson's disease patients using EEG signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 1599-1602	0.9	9

188	Hypoglycaemia detection using fuzzy inference system with multi-objective double wavelet mutation Differential Evolution. <i>Applied Soft Computing Journal</i> , <b>2013</b> , 13, 2803-2811	7.5	9
187	Analyzing EEG signals under insulin-induced hypoglycemia in type 1 diabetes patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 1980-3	0.9	9
186	Dynamic modelling of heart rate response under different exercise intensity. <i>Open Medical Informatics Journal</i> , <b>2010</b> , 4, 81-5	1	9
185	Semi-autonomous wheelchair system using stereoscopic cameras. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 5068-71	0.9	9
184	Conditions for triangular decoupling control. <i>International Journal of Control</i> , <b>2009</b> , 82, 1575-1581	1.5	9
183	Stabilising agent design for the control of interconnected systems. <i>International Journal of Control</i> , <b>2011</b> , 84, 1140-1156	1.5	9
182	Neural network control of wheelchairs using telemetric head movement		9
181	Improved head direction command classification using an optimised Bayesian neural network. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 5679-82		9
180	Two channel EEG thought pattern classifier. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 1291-4		9
179	The relationship between compression garments and electrocardiogram signals during exercise and recovery phase. <i>BioMedical Engineering OnLine</i> , <b>2019</b> , 18, 27	4.1	8
178	A novel tamper detection-recovery and watermarking system for medical image authentication and EPR hiding. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 5554-7	0.9	8
177	Hybrid PSO-based variable translation wavelet neural network and its application to hypoglycemia detection system. <i>Neural Computing and Applications</i> , <b>2013</b> , 23, 2177-2184	4.8	8
176	Online auto-calibration of triaxial accelerometer with time-variant model structures. <i>Sensors and Actuators A: Physical</i> , <b>2017</b> , 266, 294-307	3.9	8
175	Channels selection using independent component analysis and scalp map projection for EEG-based driver fatigue classification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 1332-1334	0.9	8
174	Detection of gait initiation Failure in Parkinson's disease based on wavelet transform and Support Vector Machine. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 3048-3051	0.9	8
173	Prediction of hip fracture in post-menopausal women using artificial neural network approach. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 4207-4210	0.9	8
172	Fast unsupervised learning method for rapid estimation of cluster centroids <b>2012</b> ,		8
171	Distributed classifier migration in xcs for classification of electroencephalographic signals <b>2007</b> ,		8



170	Performance of a head-movement interface for wheelchair control		8
169	A self-organising fuzzy estimator for hypoglycaemia monitoring in diabetic patients		8
168	An algorithm for scalable clustering: Ensemble Rapid Centroid Estimation <b>2014</b> ,		7
167	Electrocardiographic T-wave peak-to-end interval for hypoglycaemia detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 618-21</i>	0.9	7
166	Semi-automatic control of modular systems with intermittent data losses <b>2011</b> ,		7
165	An adaptive strategy of classification for detecting hypoglycemia using only two EEG channels. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 3515-8</i>	0.9	7
164	Optimization strategies for rapid centroid estimation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 6212-5</i>	0.9	7
163	Method for increasing the computation speed of an unsupervised learning approach for data clustering <b>2012</b> ,		7
162	Intelligent fuzzy particle swarm optimization with cross-mutated operation <b>2012</b> ,		7
161	Increase in regularity and decrease in variability seen in electroencephalography (EEG) signals from alert to fatigue during a driving simulated task. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008, 2008, 1096-9</i>	0.9	7
160	Advanced robust tracking control of a powered wheelchair system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4767-70</i>		7
159	Real-time obstacle detection for an autonomous wheelchair using stereoscopic cameras. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4775-8</i>		7
158	Productivity enhancement in a cross-flow ultrafiltration membrane system through automated de-clogging operations. <i>Journal of Membrane Science, 2006, 280, 82-88</i>	9.6	7
157	Electroencephalogram Spectral Moments for the Detection of Nocturnal Hypoglycemia. <i>IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1237-1245</i>	7.2	7
156	Modelling and regulating of cardio-respiratory response for the enhancement of interval training. <i>BioMedical Engineering OnLine, 2014, 13, 9</i>	4.1	6
155	Toward fewer EEG channels and better feature extractor of non-motor imagery mental tasks classification for a wheelchair thought controller. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 5266-9</i>	0.9	6
154	System identification for Terahertz waveS propagation and reflection in human skin <b>2012</b> ,		6
153	Optimization of head movement recognition using Augmented Radial Basis Function Neural Network. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 2776-9</i>	0.9	6

152	Obstacle avoidance for power wheelchair using bayesian neural network. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 4771-4		6
151	Broad-spectrum antioxidant peptides derived from His residue-containing sequences present in human paraoxonase 1. <i>Free Radical Research</i> , <b>2006</b> , 40, 349-58	4	6
150	Analysis and synthesis of nonlinear reciprocal networks containing two element types and transformers. <i>IEEE Transactions on Circuits and Systems</i> , <b>1980</b> , 27, 263-276		6
149	Intelligent Management of Multiple Access Schemes in Wireless Body Area Network. <i>Journal of Networks</i> , <b>2015</b> , 10,		6
148	Occipital EEG Activity for the Detection of Nocturnal Hypoglycemia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 3862-3865	0.9	6
147	Prediction of changes in bone mineral density in the elderly: contribution of "osteogenomic profile". <i>Archives of Osteoporosis</i> , <b>2018</b> , 13, 68	2.9	6
146	Hypoglycemia detection: multiple regression-based combinational neural logic approach. <i>Soft Computing</i> , <b>2017</b> , 21, 543-553	3.5	5
145	Controllability Analysis of Two-Dimensional Systems Using 1D Approaches. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 2977-2982	5.9	5
144	Identifying montages that best detect the electroencephalogram power spectrum alteration during freezing of gait in Parkinson's disease patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 6094-6097	0.9	5
143	The Fuzzy Logic-Based Stator-Flux-Oriented Direct Torque Control for Three-Phase Asynchronous Motor. <i>Journal of Control, Automation and Electrical Systems</i> , <b>2014</b> , 25, 46-54	1.5	5
142	Does Heel Height Cause Imbalance during Sit-to-Stand Task: Surface EMG Perspective. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 626	4.6	5
141	Real-time transmission of panoramic images for a telepresence wheelchair. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 3565-8	0.9	5
140	Non-invasive detection of hypoglycemic episodes in Type 1 diabetes using intelligent hybrid rough neural system <b>2014</b> ,		5
139	Coupling Graphs, Efficient Algorithms and B-Cell Epitope Prediction. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2014</b> , 11, 7-16	3	5
138	High correlation of double Debye model parameters in skin cancer detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 718-21	0.9	5
137	Mental task classifications using prefrontal cortex electroencephalograph signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 1831-4	0.9	5
136	A new approach to improve the quality of biosensor signals using Fast Independent Component Analysis: feasibility study using EMG recordings. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 1927-9	0.9	5
135	A collision avoidance strategy for safe autonomous navigation of an intelligent electric-powered wheelchair in dynamic uncertain environments with moving obstacles <b>2013</b> ,		5

134	Performance of dry electrode with bristle in recording EEG rhythms across brain state changes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 59-62</i>	0.9	5
133	Block based neural network for hypoglycemia detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 5666-9</i>	0.9	5
132	Development of a Bayesian recursive algorithm to find free-spaces for an intelligent wheelchair. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 7250-3</i>	0.9	5
131	Intelligent detection of hypoglycemic episodes in children with type 1 diabetes using adaptive neural-fuzzy inference system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 6325-8</i>	0.9	5
130	Using fuzzy logic reasoning for monitoring hypoglycaemia in diabetic patients		5
129	Advanced obstacle avoidance for a laser based wheelchair using optimised Bayesian neural networks. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008, 2008, 3463-6</i>	0.9	5
128	Decentralised Model Predictive Control of Time-Varying Splitting Parallel Systems <b>2012</b> , 217-251		5
127	Nocturnal Hypoglycemia Detection using EEG Spectral Moments under Natural Occurrence Conditions. <i>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</i>	0.9	4
126	An efficient steganography method for hiding patient confidential information. <i>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</i>	0.9	4
125	Prediction of freezing of gait using analysis of brain effective connectivity. <i>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</i>	0.9	4
124	Mass Classification in Digitized Mammograms Using Texture Features and Artificial Neural Network. <i>Lecture Notes in Computer Science, 2012, 151-158</i>	0.9	4
123	Classification of hypoglycemic episodes for Type 1 diabetes mellitus based on neural networks <b>2010</b> ,		4
122	Stability of Complex Systems with Mixed Connection Configurations under Shared Control <b>2010</b> ,		4
121	Frequency analysis of eyes open and eyes closed EEG signals using the Hilbert-Huang transform. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 2865-8</i>	0.9	4
120	Human computer interaction using hand gesture. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008, 2008, 2357-60</i>	0.9	4
119	Effects of mental fatigue on 8-13Hz brain activity in people with spinal cord injury. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008, 2008, 5716-9</i>	0.9	4
118	A telepresence wheelchair using cellular network infrastructure in outdoor environments. <i>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</i>	0.9	3
117	Classification of facial-emotion expression in the application of psychotherapy using Viola-Jones and Edge-Histogram of Oriented Gradient. <i>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</i>	0.9	3

116	Unsupervised segmentation of heel-strike IMU data using rapid cluster estimation of wavelet features. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013</i> , 2013, 953-6	0.9	3
115	Designing adaptive integral sliding mode control for heart rate regulation during cycle-ergometer exercise using bio-feedback. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013</i> , 2013, 1199-101	0.9	3
114	An advanced control strategy of an electrical-powered hospital bed. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014</i> , 2014, 1190-3	0.9	3
113	A simple microbial fuel cell model for improvement of biomedical device powering times. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014</i> , 2014, 634-7	0.9	3
112	A novel extreme learning machine for hypoglycemia detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014</i> , 2014, 302-5	0.9	3
111	Gait episode identification based on wavelet feature clustering of spectrogram images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012</i> , 2012, 2949-52	0.9	3
110	Classification of wheelchair commands using brain computer interface: comparison between able-bodied persons and patients with tetraplegia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013</i> , 2013, 989-92	0.9	3
109	Development of an assistive patient mobile system for hospital environments. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013</i> , 2013, 2491-4	0.9	3
108	Fast tracking of a given heart rate profile in treadmill exercise. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010</i> , 2010, 2569-72	0.9	3
107	Hypoglycaemia detection for type 1 diabetic patients based on ECG parameters using Fuzzy Support Vector Machine <b>2010</b> ,		3
106	Ventricular repolarization variability for hypoglycemia detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011</i> , 2011, 7961-4	0.9	3
105	Hybrid particle swarm - based fuzzy support vector machine for hypoglycemia detection <b>2012</b> ,		3
104	Portable sensor based dynamic estimation of human oxygen uptake via nonlinear multivariable modelling. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008</i> , 2008, 2431-4	0.9	3
103	Virtual-Head Robot Tracking and Three-Point I-I Control for Multiple Mobile Robots <b>2006</b> ,		3
102	Wireless real-time head movement system using a personal digital assistant (PDA) for control of a power wheelchair. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2005</i> , 2005, 6235-8		3
101	A Hybrid Nonlinear-Discriminant Analysis Feature Projection Technique. <i>Lecture Notes in Computer Science, 2008</i> , 544-550	0.9	3
100	A semi-autonomous motorized mobile hospital bed for safe transportation of head injury patients in dynamic hospital environments without bed switching. <i>Robotica, 2016</i> , 34, 1880-1897	2.1	3
99	Real-time video streaming with multi-camera for a telepresence wheelchair <b>2016</b> ,		3

98	Wavelet PCA for automatic identification of walking with and without an exoskeleton on a treadmill using pressure and accelerometer sensors. <i>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</i>	0.9	3
97	<b>2016,</b>		3
96	A fast-converge, real-time auto-calibration algorithm for triaxial accelerometer. <i>Measurement Science and Technology, 2019, 30, 065010</i>	2	2
95	Dynamic characteristics of oxygen consumption. <i>BioMedical Engineering OnLine, 2018, 17, 44</i>	4.1	2
94	Effect of growth solution, membrane size and array connection on microbial fuel cell power supply for medical devices. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 1946-1949</i>	0.9	2
93	Using S-transform in EEG analysis for measuring an alert versus mental fatigue state. <i>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</i>	0.9	2
92	Combinational neural logic system and its industrial application on hypoglycemia monitoring system <b>2013,</b>		2
91	Multiloop Integral Controllability Analysis for Nonlinear Multiple-Input Single-Output Processes. <i>Industrial &amp; Engineering Chemistry Research, 2017, 56, 8054-8065</i>	3.9	2
90	Sparse Observer-Based Sliding Mode Control For Networked Control Systems. <i>IFAC-PapersOnLine, 2017, 50, 12997-13002</i>	0.7	2
89	Polypyrrole RVC biofuel cells for powering medical implants. <i>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</i>	0.9	2
88	Multiscale PCA to distinguish regular and irregular surfaces using tri axial head and trunk acceleration signals. <i>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</i>	0.9	2
87	Heart rate regulation during cycle-ergometer exercise via bio-feedback. <i>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</i>	0.9	2
86	Experimenting with microbial fuel cells for powering implanted biomedical devices. <i>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</i>	0.9	2
85	Classification of driver fatigue in an electroencephalography-based countermeasure system with source separation module. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 7147</i>	0.9	2
84	On heart rate regulation in cycle-ergometer exercise. <i>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</i>	0.9	2
83	A new LMI-based robust Sliding Mode Control for the uncertain discrete-time systems <b>2014,</b>		2
82	Optimized variable translation wavelet neural network and its application in hypoglycemia detection system <b>2012,</b>		2
81	Real-time performance of a hands-free semi-autonomous wheelchair system using a combination of stereoscopic and spherical vision. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 2019-72</i>	0.9	2

80	Multi-realization of nonlinear systems. <i>Automatica</i> , <b>2012</b> , 48, 1455-1461	5.7	2
79	Robust online adaptive neural network control for the regulation of treadmill exercises. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 1005-8	0.9	2
78	Genetic algorithm based fuzzy multiple regression for the nocturnal Hypoglycaemia detection <b>2010</b> ,		2
77	Switching rate changes associated with mental fatigue for assistive technologies. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 3071-4	0.9	2
76	Adaptive shared control strategies based in the Bayesian recursive technique in an intelligent wheelchair. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 7118-21	0.9	2
75	Hypoglycemia detection using fuzzy inference system with genetic algorithm <b>2011</b> ,		2
74	Global optimization for human skin investigation in terahertz. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 5474-7	0.9	2
73	Development of a Bayesian neural network to perform obstacle avoidance for an intelligent wheelchair. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 1884-7	0.9	2
72	Gait cycle spectrogram analysis using a torso-attached inertial sensor. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 6539-42	0.9	2
71	Using microstate intensity for the analysis of spontaneous EEG: tracking changes from alert to the fatigue state. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> ,	0.9	2
70	Evaluating the efficacy of an automated procedure for EEG artifact removal. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 376-9	0.9	2
69	Neuro-sliding mode multivariable control of a powered wheelchair. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 3471-4	0.9	2
68	Bayesian recursive algorithm for width estimation of freespace for a power wheelchair using stereoscopic cameras. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 4234-7	0.9	2
67	Bayesian Neural Network Classification of Head Movement Direction using Various Advanced Optimisation Training Algorithms		2
66	Using fractal analysis to improve switching rates in "hands free" environmental control technology for the severely disabled <b>2007</b> ,		2
65	Hybrid Optimisation Method Using PGA and SQP Algorithm <b>2007</b> ,		2
64	Hands-free control of power wheelchairs using Bayesian neural network classification		2
63	Estimation of minimal model parameters with the use of an adaptive observer for suprabasal insulin action		2

62	Predicting short-term ICU outcomes using a sequential contrast motif based classification framework. <i>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</i>	0.9	2
61	Heart rate regulation during cycle-ergometer exercise using damped parameter estimation method. <i>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</i>	0.9	2
60	Identification of EEG Dynamics During Freezing of Gait and Voluntary Stopping in Patients With Parkinson's Disease. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1774-1783</i>	4.8	2
59	Enhanced myoelectric control against arm position change with weighted recursive Gaussian process. <i>Neural Computing and Applications, 1</i>	4.8	2
58	Sparsely distributed sliding mode control for interconnected systems. <i>Journal of the Franklin Institute, 2018, 355, 6191-6214</i>	4	2
57	A Telepresence Wheelchair with 360-Degree Vision Using WebRTC. <i>Applied Sciences (Switzerland), 2020, 10, 369</i>	2.6	1
56	A Hybrid Physiological Approach of Emotional Reaction Detection Using Combined FCM and SVM Classifier. <i>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</i>	0.9	1
55	Enhancing accuracy of mental fatigue classification using advanced computational intelligence in an electroencephalography system. <i>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</i>	0.9	1
54	Robust output-feedback discrete-time sliding mode control utilizing disturbance observer <b>2015,</b>		1
53	Near-infrared parameters extraction: A potential method to detect skin cancer. <i>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</i>	0.9	1
52	A method for decentralized formation building for unicycle-like mobile robots <b>2013,</b>		1
51	Differences in lower limb muscle activation patterns during Sit to Stand Task for different heel heights. <i>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</i>	0.9	1
50	Real-time WebRTC-based design for a telepresence wheelchair. <i>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</i>	0.9	1
49	Comparing features extractors in EEG-based cognitive fatigue detection of demanding computer tasks. <i>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</i>	0.9	1
48	Breast Cancer classification using extracted parameters from a terahertz dielectric model of human breast tissue. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2804-7</i>	0.9	1
47	Decentralized Integral Controllability Analysis Based on a New Unconditional Stability Criterion. <i>IEEE Transactions on Automatic Control, 2015, 60, 211-215</i>	5.9	1
46	A hypoglycemic episode diagnosis system based on neural networks for Type 1 diabetes mellitus <b>2012,</b>		1
45	A particle swarm optimization-based neural network for detecting nocturnal hypoglycemia using electroencephalography signals <b>2012,</b>		1

44	Hybrid particle swarm optimization based normalized radial basis function neural network for hypoglycemia detection <b>2012</b> ,		1
43	The application of Discrete sliding mode control in parabolic PDE dynamics <b>2013</b> ,		1
42	Toward Plant-wide Control of Reticulated Systems Arising in Alumina Refineries with Online Stabilisation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 10529-10534		1
41	Spherical vision cameras in a semi-autonomous wheelchair system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 4064-7	0.9	1
40	A New Particle Swarm Optimization Algorithm for Neural Network Optimization <b>2009</b> ,		1
39	Multi-realization of nonlinear systems <b>2009</b> ,		1
38	Changes in blood volume pulse during exercise recovery in activity-based therapy for spinal cord injury. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 693-6	0.9	1
37	Particle swarm optimization based feature selection in mammogram mass classification <b>2012</b> ,		1
36	Stationarity and variability in eyes open and eyes closed EEG signals from able-bodied and spinal cord injured persons. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 2851-4	0.9	1
35	NON-INVASIVE NOCTURNAL HYPOGLYCEMIA DETECTION FOR INSULIN-DEPENDENT DIABETES MELLITUS USING GENETIC FUZZY LOGIC METHOD. <i>International Journal of Computational Intelligence and Applications</i> , <b>2012</b> , 11, 1250025	1.2	1
34	Robust multivariable strategy and its application to a powered wheelchair. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 7114-7	0.9	1
33			1
32	Improved Head Direction Command Classification using an Optimised Bayesian Neural Network		1
31	Neural-Network Detection of Hypoglycemic Episodes in Children with Type 1 Diabetes using Physiological Parameters		1
30	Distributed Simultaneous Task Allocation and Motion Coordination of Autonomous Vehicles Using a Parallel Computing Cluster <b>2007</b> , 409-420		1
29	Robust tracking control of a differential drive wheeled mobile robot using fast nonsingular terminal sliding mode. <i>Computers and Electrical Engineering</i> , <b>2021</b> , 96, 107488	4.3	1
28	Cardiovascular fitness strengthening using portable device. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 2692-2695	0.9	1
27	H2-based optimal sparse sliding mode control for networked control systems <b>2016</b> ,		1



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25	Nocturnal Hypoglycemia Detection using Optimal Bayesian Algorithm in an EEG Spectral Moments Based System. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019</i> , 2019, 5133-5140	0.9	1
24	Effect Of Compression Garments On Cardiovascular Function During Recovery Phase. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2018</i> , 2018, 2869-2872	0.9	1
23	Nonparametric dynamical model of cardiorespiratory responses at the onset and offset of treadmill exercises. <i>Medical and Biological Engineering and Computing, 2018</i> , 56, 2337-2351	3.1	1
22	The Effect of Hypoglycemia on Spectral Moments in EEG Epochs of Different Durations in Type 1 Diabetes Patients. <i>IEEE Journal of Biomedical and Health Informatics, 2021</i> , 25, 2857-2865	7.2	1
21	Near infrared spectroscopy (NIRS) measurements during global cerebral ischemia in sheep. <i>Advances in Experimental Medicine and Biology, 2003</i> , 510, 349-54	3.6	1
20	Nonlinear Modeling Using Support Vector Machine for Heart Rate Response to Exercise <b>2012</b> , 255-270		0
19	Machine Learning-based Nonlinear Model Predictive Control for Heart Rate Response to Exercise <b>2012</b> , 271-285		0
18	Optimal path-following control of a smart powered wheelchair. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008</i> , 2008, 5025-8	0.9	0
17	Combining ICA Clustering and Power Spectral Density for Feature Extraction of Mental Fatigue of Spinal Cord Injury Patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019</i> , 2019, 530-533	0.9	0
16	A new unconditionally stable condition based on singular perturbation analysis. <i>International Journal of Control, 2014</i> , 87, 464-472	1.5	
15	The classification for "equilibrium triad" sensory loss based on sEMG signals of calf muscles. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017</i> , 2017, 2142-2145	0.9	
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13	Neural network decoupling technique and its application to a powered wheelchair system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015</i> , 2015, 4586-9	0.9	
12	A novel target following solution for the electric powered hospital bed. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015</i> , 2015, 3569-72	0.9	
11	Intelligent Fault Detection and Isolation of HVAC System Based on Online Support Vector Machine <b>2012</b> , 287-304		
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9	Semi-autonomous wheelchair developed using a unique camera system configuration biologically inspired by equine vision. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011</i> , 2011, 5768-5	0.9	

8	Rate estimation for the monitoring of rehabilitation exercises. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009, 2009, 6267-70</i>	0.9
7	Mammogram object detection using dendronic image analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2004, 2004, 1763-5</i>	
6	Statistical Analysis of Brain Connectivity Estimators during Distracted Driving. <i>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</i>	0.9
5	MODELLING AND IDENTIFICATION OF MR DAMPER FOR SEMIACTIVE STIFFNESS DAMPER. <i>The Proceedings of the International Conference on Motion and Vibration Control, 2002, 6.2, 1197-1202</i>	0
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