Tom Tk Chau

List of Publications by Year
in descending order

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230	9,547	46918 47	48187 88
papers	citations	h-index	g-index

231	231	231	7626
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A comparison and classification of oscillatory characteristics in speech perception and covert speech. Brain Research, 2022, 1781, 147778.	1.1	3
2	Evaluation of an Ecological Interface Designâ€“Driven Augmentative and Alternative Communication Interface. Journal of Cognitive Engineering and Decision Making, 2022, 16, 43-59.	0.9	0
3	Does music induce interbrain synchronization between a non-speaking youth with cerebral palsy (CP), a parent, and a neurologic music therapist? A brief report. Developmental Neurorehabilitation, 2022, 25, 426-432.	0.5	7
4	Altered Brain Activation in Youth following Concussion: Using a Dual-task Paradigm. Developmental Neurorehabilitation, 2021, 24, 187-198.	0.5	11
5	Neurophysiological Synchrony Between Children With Severe Physical Disabilities and Their Parents During Music Therapy. Frontiers in Neuroscience, 2021, 15, 531915.	1.4	12
6	Ecological Design of an Augmentative and Alternative Communication Device Interface. Journal of Cognitive Engineering and Decision Making, 2021, 15, 175-197.	0.9	1
7	Brain-Computer Interfaces for Children With Complex Communication Needs and Limited Mobility: A Systematic Review. Frontiers in Human Neuroscience, 2021, 15, 643294.	1.0	19
8	Investigating sensory response to physical discomfort in children with autism spectrum disorder using near-infrared spectroscopy. PLoS ONE, 2021, 16, e0257029.	1.1	3
9	Automated movement recognition to predict motor impairment in highâ€risk infants: a systematic review of diagnostic test accuracy and metaâ€analysis. Developmental Medicine and Child Neurology, 2021, 63, 637-648.	1.1	27
10	The effects of visual distractors on cognitive load in a motor imagery brain-computer interface. Behavioural Brain Research, 2020, 378, 112240.	1.2	24
11	Advancing Brain-Computer Interface Applications for Severely Disabled Children Through a Multidisciplinary National Network: Summary of the Inaugural Pediatric BCI Canada Meeting. Frontiers in Human Neuroscience, 2020, 14, 593883.	1.0	20
12	Technological advancements and opportunities in Neuromarketing: a systematic review. Brain Informatics, 2020, 7, 10.	1.8	55
13	Nonspecific Visuospatial Imagery as a Novel Mental Task for Online EEG-Based BCI Control. International Journal of Neural Systems, 2020, 30, 2050026.	3.2	12
14	A wearable fabric-based speech-generating device: system design and case demonstration. Disability and Rehabilitation: Assistive Technology, 2019, 14, 434-444.	1.3	15
15	Automated movement analysis to predict motor impairment in preterm infants: a retrospective study. Journal of Perinatology, 2019, 39, 1362-1369.	0.9	11
16	Development of a robust asynchronous brain-switch using ErrP-based error correction. Journal of Neural Engineering, 2019, 16, 066042.	1.8	12
17	Online detection of error-related potentials in multi-class cognitive task-based BCIs. Brain-Computer Interfaces, 2019, 6, 1-12.	0.9	8
18	Development of a ternary hybrid fNIRS-EEG brainâ€“computer interface based on imagined speech. Brain-Computer Interfaces, 2019, 6, 128-140.	0.9	34

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19	Automatic discrimination between cough and non-cough accelerometry signal artefacts. Biomedical Signal Processing and Control, 2019, 52, 394-402.	3.5	19
20	Online classification of imagined speech using functional near-infrared spectroscopy signals. Journal of Neural Engineering, 2019, 16, 016005.	1.8	39
21	Limited value of temporo-parietal hemodynamic signals in an optical-electric auditory brain-computer interface. Biomedical Physics and Engineering Express, 2018, 4, 045035.	0.6	1
22	Investigating the effects of visual distractors on the performance of a motor imagery brain-computer interface. Clinical Neurophysiology, 2018, 129, 1268-1275.	0.7	15
23	Development of a Ternary Near-Infrared Spectroscopy Brain-Computer Interface: Online Classification of Verbal Fluency Task, Stroop Task and Rest. International Journal of Neural Systems, 2018, 28, 1750052.	3.2	14
24	Client and family engagement in rehabilitation research: a framework for health care organizations. Disability and Rehabilitation, 2018, 40, 859-863.	0.9	2
25	Development and testing an online near-infrared spectroscopy brainâ€“computer interface tailored to an individual with severe congenital motor impairments. Disability and Rehabilitation: Assistive Technology, 2018, 13, 581-591.	1.3	6
26	Exploiting error-related potentials in cognitive task based BCI. Biomedical Physics and Engineering Express, 2018, 5, 015023.	0.6	13
27	Detection of Atypical and Typical Infant Movements using Computer-based Video Analysis. , 2018, 2018, 3598-3601.		29
28	Quantifying fast optical signal and event-related potential relationships during a visual oddball task. NeuroImage, 2018, 178, 119-128.	2.1	9
29	A novel approach to automatically quantify the level of coincident activity between EMG and MMG signals. Journal of Electromyography and Kinesiology, 2018, 41, 34-40.	0.7	7
30	Online classification of the near-infrared spectroscopy fast optical signal for brain-computer interfaces. Biomedical Physics and Engineering Express, 2018, 4, 065010.	0.6	5
31	Challenges of implementing a personalized mental task near-infrared spectroscopy brainâ€“computer interface for a non-verbal young adult with motor impairments. Developmental Neurorehabilitation, 2017, 20, 99-107.	0.5	6
32	A Passive EEG-BCI for Single-Trial Detection of Changes in Mental State. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 345-356.	2.7	71
33	Atypical autonomic nervous system complexity accompanies social cognition task performance in ASD. Research in Autism Spectrum Disorders, 2017, 39, 54-62.	0.8	13
34	Centres for Leadership: a strategy for academic integration. Journal of Health Organization and Management, 2017, 31, 302-316.	0.6	3
35	Online EEG Classification of Covert Speech for Brainâ€“Computer Interfacing. International Journal of Neural Systems, 2017, 27, 1750033.	3.2	67
36	Comparing electro- and mechano-myographic muscle activation patterns in self-paced pediatric gait. Journal of Electromyography and Kinesiology, 2017, 36, 73-80.	0.7	8

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37	Toward fabric-based EEG access technologies: Seamless knit electrodes for a portable brain-computer interface. , 2017, , .		13
38	EEG Classification of Covert Speech Using Regularized Neural Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 2292-2300.	4.0	85
39	Designing a wearable MMG-based mobile app for gait rehab. , 2017, , .		1
40	A Ternary Brain-Computer Interface Based on Single-Trial Readiness Potentials of Self-initiated Fine Movements: A Diversified Classification Scheme. Frontiers in Human Neuroscience, 2017, 11, 254.	1.0	1
41	Predicting Linear Elongation With Conductive Thread-Based Sensors. IEEE Sensors Journal, 2017, 17, 6537-6548.	2.4	4
42	Specificity of autonomic arousal to anxiety in children with autism spectrum disorder. Autism Research, 2016, 9, 491-501.	2.1	12
43	Improving bit rate in an auditory BCI: Exploiting error-related potentials. Brain-Computer Interfaces, 2016, 3, 75-87.	0.9	23
44	Clustering of time-evolving scaling dynamics in a complex signal. Physical Review E, 2016, 94, 012220.	0.8	2
45	A pipeline of spatio-temporal filtering for predicting the laterality of self-initiated fine movements from single trial readiness potentials. Journal of Neural Engineering, 2016, 13, 066012.	1.8	5
46	Post-Segmentation Swallowing Accelerometry Signal Trimming and False Positive Reduction. IEEE Signal Processing Letters, 2016, 23, 1221-1225.	2.1	4
47	Feature clustering for robust frequency-domain classification of EEG activity. Journal of Neuroscience Methods, 2016, 262, 77-84.	1.3	9
48	An online three-class Transcranial Doppler ultrasound brain computer interface. Neuroscience Research, 2016, 107, 47-56.	1.0	4
49	An MEG-Compatible Electromagnetic-Tracking System for Monitoring Orofacial Kinematics. IEEE Transactions on Biomedical Engineering, 2016, 63, 1709-1717.	2.5	12
50	Partially supervised P300 speller adaptation for eventual stimulus timing optimization: target confidence is superior to error-related potential score as an uncertain label. Journal of Neural Engineering, 2016, 13, 026008.	1.8	18
51	An Auditory-Tactile Visual Saccade-Independent P300 Brainâ€“Computer Interface. International Journal of Neural Systems, 2016, 26, 1650001.	3.2	83
52	Adding Real-Time Bayesian Ranks to Error-Related Potential Scores Improves Error Detection and Auto-Correction in a P300 Speller. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 46-56.	2.7	35
53	Single-Trial Analysis of Inter-Beat Interval Perturbations Accompanying Single-Switch Scanning: Case Series of Three Children With Severe Spastic Quadriplegic Cerebral Palsy. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 261-271.	2.7	2
54	Application of an access technology delivery protocol to two children with cerebral palsy. Disability and Rehabilitation: Assistive Technology, 2016, 11, 166-175.	1.3	2

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55	E-textiles in Clinical Rehabilitation: A Scoping Review. Electronics (Switzerland), 2015, 4, 173-203.	1.8	54
56	Effects of user mental state on EEG-BCI performance. Frontiers in Human Neuroscience, 2015, 9, 308.	1.0	142
57	Correlates of Near-Infrared Spectroscopy Brainâ€“Computer Interface Accuracy in a Multi-Class Personalization Framework. Frontiers in Human Neuroscience, 2015, 9, 536.	1.0	16
58	Towards a ternary NIRS-BCI: single-trial classification of verbal fluency task, Stroop task and unconstrained rest. Journal of Neural Engineering, 2015, 12, 066008.	1.8	32
59	Weaning Off Mental Tasks to Achieve Voluntary Self-Regulatory Control of a Near-Infrared Spectroscopy Brain-Computer Interface. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 548-561.	2.7	28
60	A Hybrid Brainâ€“Computer Interface Based on the Fusion of P300 and SSVEP Scores. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 693-701.	2.7	148
61	Exploring methodological frameworks for a mental task-based near-infrared spectroscopy brainâ€“computer interface. Journal of Neuroscience Methods, 2015, 254, 36-45.	1.3	11
62	Pattern classification to optimize the performance of Transcranial Doppler Ultrasonography-based brain machine interface. Pattern Recognition Letters, 2015, 66, 135-143.	2.6	15
63	Usability and performance-informed selection of personalized mental tasks for an online near-infrared spectroscopy brain-computer interface. Neurophotonics, 2015, 2, 025001.	1.7	24
64	Sequential hypothesis testing for automatic detection of task-related changes in cerebral perfusion in a brainâ€“computer interface. Neuroscience Research, 2015, 100, 29-38.	1.0	2
65	Single-trial classification of near-infrared spectroscopy signals arising from multiple cortical regions. Behavioural Brain Research, 2015, 290, 131-142.	1.2	24
66	Swallowing accelerometry signal feature variations with sensor displacement. Medical Engineering and Physics, 2015, 37, 665-673.	0.8	11
67	Electrode Fusion for the Prediction of Self-Initiated Fine Movements from Single-Trial Readiness Potentials. International Journal of Neural Systems, 2015, 25, 1550014.	3.2	11
68	Variability in Prefrontal Hemodynamic Response during Exposure to Repeated Self-Selected Music Excerpts, a Near-Infrared Spectroscopy Study. PLoS ONE, 2015, 10, e0122148.	1.1	2
69	A Comparison of Handwriting Grip Kinetics Associated with Authentic and Well-Practiced Bogus Signatures. Advances in Intelligent Systems and Computing, 2015, , 257-266.	0.5	0
70	Online transcranial Doppler ultrasonographic control of an onscreen keyboard. Frontiers in Human Neuroscience, 2014, 8, 199.	1.0	11
71	Dynamic topographical pattern classification of multichannel prefrontal NIRS signals: II. Online differentiation of mental arithmetic and rest. Journal of Neural Engineering, 2014, 11, 016003.	1.8	68
72	Variation of grip force profile during signature writing. , 2014, , .		0

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73	Long Term Consistency of Handwriting Grip Kinetics in Adults. Journal of Biomechanical Engineering, 2014, 136, .	0.6	6
74	A review of past and future near-infrared spectroscopy brain computer interface research at the PRISM lab. , 2014, 2014, 1996-9.		2
75	Implementing an iPad-based alternative communication device for a student with cerebral palsy and autism in the classroom via an access technology delivery protocol. Computers and Education, 2014, 79, 148-158.	5.1	48
76	Trends in Communicative Access Solutions for Children With Cerebral Palsy. Journal of Child Neurology, 2014, 29, 1108-1118.	0.7	27
77	Towards a physiological signal-based access solution for a non-verbal adolescent with severe and multiple disabilities. Developmental Neurorehabilitation, 2014, 17, 270-277.	0.5	2
78	An access technology delivery protocol for children with severe and multiple disabilities: A case demonstration. Developmental Neurorehabilitation, 2014, 17, 232-242.	0.5	12
79	Autonomic responses to correct outcomes and interaction errors during single-switch scanning among children with severe spastic quadriplegic cerebral palsy. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 34.	2.4	8
80	Vocal frequency estimation and voicing state prediction with surface EMG pattern recognition. Speech Communication, 2014, 63-64, 15-26.	1.6	16
81	A case study of linear classifiers adapted using imperfect labels derived from human event-related potentials. Pattern Recognition Letters, 2014, 37, 54-62.	2.6	63
82	A Pediatric Correlational Study of Stride Interval Dynamics, Energy Expenditure and Activity Level. Pediatric Exercise Science, 2014, 26, 242-249.	0.5	0
83	Noninvasive Detection of Thin-Liquid Aspiration Using Dual-Axis Swallowing Accelerometry. Dysphagia, 2013, 28, 105-112.	1.0	37
84	A Review of EEG-Based Brain-Computer Interfaces as Access Pathways for Individuals with Severe Disabilities. Assistive Technology, 2013, 25, 99-110.	1.2	122
85	Classification of Penetration--Aspiration Versus Healthy Swallows Using Dual-Axis Swallowing Accelerometry Signals in Dysphagic Subjects. IEEE Transactions on Biomedical Engineering, 2013, 60, 1859-1866.	2.5	31
86	Statistical persistence and timing characteristics of repetitive circle drawing in children with ASD. Developmental Neurorehabilitation, 2013, 16, 245-254.	0.5	31
87	Learning and mastery behaviours as risk factors to abandonment in a paediatric user of advanced single-switch access technology. Disability and Rehabilitation: Assistive Technology, 2013, 8, 426-433.	1.3	8
88	The effects of listening to music or viewing television on human gait. Computers in Biology and Medicine, 2013, 43, 1497-1501.	3.9	10
89	Towards a hemodynamic BCI using transcranial Doppler without user-specific training data. Journal of Neural Engineering, 2013, 10, 016005.	1.8	13
90	Towards a multimodal brainâ€“computer interface: Combining fNIRS and fTCD measurements to enable higher classification accuracy. NeuroImage, 2013, 77, 186-194.	2.1	71

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91	Knowledge Translation in Rehabilitation Engineering Research and Development: A Knowledge Ecosystem Framework. Archives of Physical Medicine and Rehabilitation, 2013, 94, S9-S19.	0.5	14
92	Investigating the Autonomic Nervous System Response to Anxiety in Children with Autism Spectrum Disorders. PLoS ONE, 2013, 8, e59730.	1.1	136
93	Using prefrontal cortex near-infrared spectroscopy and autonomic nervous system activity for identifying music-induced emotions. , 2013, , .		2
94	Automatic single-trial classification of prefrontal hemodynamic activity in an individual with Duchenne muscular dystrophy. Developmental Neurorehabilitation, 2013, 16, 67-72.	0.5	32
95	Dynamic topographical pattern classification of multichannel prefrontal NIRS signals. Journal of Neural Engineering, 2013, 10, 046018.	1.8	23
96	Writing Forces Associated With Four Pencil Grasp Patterns in Grade 4 Children. American Journal of Occupational Therapy, 2013, 67, 218-227.	0.1	32
97	Variability of Grip Kinetics during Adult Signature Writing. PLoS ONE, 2013, 8, e63216.	1.1	13
98	Automatic detection of a prefrontal cortical response to emotionally rated music using multi-channel near-infrared spectroscopy. Journal of Neural Engineering, 2012, 9, 026022.	1.8	69
99	Development and evaluation of a dual-output vocal cord vibration switch for persons with multiple disabilities. Disability and Rehabilitation: Assistive Technology, 2012, 7, 82-88.	1.3	26
100	Evaluation of an ambient noise insensitive hum-based powered wheelchair controller. Disability and Rehabilitation: Assistive Technology, 2012, 7, 242-248.	1.3	1
101	Investigating the Need for Modelling Temporal Dependencies in a Brain-Computer Interface with Real-Time Feedback Based on near Infrared Spectra. Journal of Near Infrared Spectroscopy, 2012, 20, 107-116.	0.8	29
102	Towards increased data transmission rate for a three-class metabolic brainâ€“computer interface based on transcranial Doppler ultrasound. Neuroscience Letters, 2012, 528, 99-103.	1.0	13
103	Challenges of developing communicative interaction in individuals with congenital profound intellectual and multiple disabilities. Journal of Intellectual and Developmental Disability, 2012, 37, 348-359.	1.1	25
104	The effects of motion artifact on mechanomyography: A comparative study of microphones and accelerometers. Journal of Electromyography and Kinesiology, 2012, 22, 320-324.	0.7	49
105	Characterizing emotional response to music in the prefrontal cortex using near infrared spectroscopy. Neuroscience Letters, 2012, 525, 7-11.	1.0	33
106	Compressive sampling of swallowing accelerometry signals using time-frequency dictionaries based on modulated discrete prolate spheroidal sequences. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.0	40
107	Quantitative classification of pediatric swallowing through accelerometry. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 34.	2.4	21
108	Automatic single-trial discrimination of mental arithmetic, mental singing and the no-control state from prefrontal activity: toward a three-state NIRS-BCI. BMC Research Notes, 2012, 5, 141.	0.6	95

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109	Design and evaluation of a novel microphone-based mechanomyography sensor with cylindrical and conical acoustic chambers. Medical Engineering and Physics, 2012, 34, 1184-1190.	0.8	40
110	Preliminary findings on image preference characterization based on neurophysiological signal analysis: Towards objective QoE modeling. , 2012, , .		7
111	Classification of Activity Engagement in Individuals with Severe Physical Disabilities Using Signals of the Peripheral Nervous System. PLoS ONE, 2012, 7, e30373.	1.1	10
112	A Method for Removal of Low Frequency Components Associated with Head Movements from Dual-Axis Swallowing Accelerometry Signals. PLoS ONE, 2012, 7, e33464.	1.1	25
113	An investigation of stride interval stationarity while listening to music or viewing television. Human Movement Science, 2012, 31, 695-706.	0.6	11
114	Effect of pencil grasp on the speed and legibility of handwriting after a 10â€minute copy task in Grade 4 children. Australian Occupational Therapy Journal, 2012, 59, 180-187.	0.6	9
115	Intersession Consistency of Single-Trial Classification of the Prefrontal Response to Mental Arithmetic and the No-Control State by NIRS. PLoS ONE, 2012, 7, e37791.	1.1	71
116	The Effects of Rhythmic Sensory Cues on the Temporal Dynamics of Human Gait. PLoS ONE, 2012, 7, e43104.	1.1	84
117	Effect of Pencil Grasp on the Speed and Legibility of Handwriting in Children. American Journal of Occupational Therapy, 2012, 66, 718-726.	0.1	51
118	Mean Square Error Estimation in Thresholding. IEEE Signal Processing Letters, 2011, 18, 103-106.	2.1	5
119	Comparison of blood volume pulse and skin conductance responses to mental and affective stimuli at different anatomical sites. Physiological Measurement, 2011, 32, 1529-1539.	1.2	48
120	Implications of prosthesis funding structures on the use of prostheses. Prosthetics and Orthotics International, 2011, 35, 215-224.	0.5	17
121	Changes in kinetics and kinematics of handwriting during a prolonged writing task in children with and without dysgraphia. Research in Developmental Disabilities, 2011, 32, 1058-1064.	1.2	86
122	Reputation-Based Neural Network Combinations. , 2011, , .		0
123	A Brain-Computer Interface Based on Bilateral Transcranial Doppler Ultrasound. PLoS ONE, 2011, 6, e24170.	1.1	34
124	Thermal Imaging of the Periorbital Regions during the Presentation of an Auditory Startle Stimulus. PLoS ONE, 2011, 6, e27268.	1.1	15
125	Scaling analysis of baseline dual-axis cervical accelerometry signals. Computer Methods and Programs in Biomedicine, 2011, 103, 113-120.	2.6	5
126	On the development of a computer-based handwriting assessment tool to objectively quantify handwriting proficiency in children. Computer Methods and Programs in Biomedicine, 2011, 104, e102-e111.	2.6	60

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127	Classification of healthy and abnormal swallows based on accelerometry and nasal airflow signals. Artificial Intelligence in Medicine, 2011, 52, 17-25.	3.8	34
128	Short-Term Music Training Enhances Verbal Intelligence and Executive Function. Psychological Science, 2011, 22, 1425-1433.	1.8	526
129	Handwriting Difficulties in Children with Autism Spectrum Disorders: A Scoping Review. Journal of Autism and Developmental Disorders, 2011, 41, 1706-1716.	1.7	161
130	Automatic discrimination between safe and unsafe swallowing using a reputation-based classifier. BioMedical Engineering OnLine, 2011, 10, 100.	1.3	24
131	Mechanomyography as an access pathway: corporeal contraindications. Disability and Rehabilitation: Assistive Technology, 2011, 6, 552-563.	1.3	9
132	Variability in Execution of the Chin-Down Maneuver by Healthy Adults. Folia Phoniatrica Et Logopaedica, 2011, 63, 36-42.	0.5	11
133	Towards a system-paced near-infrared spectroscopy brainâ€“computer interface: differentiating prefrontal activity due to mental arithmetic and mental singing from the no-control state. Journal of Neural Engineering, 2011, 8, 066004.	1.8	134
134	Body Functions and Structures Pertinent to Infrared Thermography-Based Access for Clients With Severe Motor Disabilities. Assistive Technology, 2011, 23, 53-64.	1.2	5
135	Client-centred development of an infrared thermal access switch for a young adult with severe spastic quadriplegic cerebral palsy. Disability and Rehabilitation: Assistive Technology, 2011, 6, 179-187.	1.3	14
136	An Integrated Approach to Detecting Communicative Intent Amid Hyperkinetic Movements in Children. AAC: Augmentative and Alternative Communication, 2011, 27, 150-162.	0.8	5
137	Time-Frequency Analysis and Hermite Projection Method Applied to Swallowing Accelerometry Signals. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	17
138	A novel integrated mechanomyogram-vocalization access solution. Medical Engineering and Physics, 2010, 32, 940-944.	0.8	15
139	Baseline Characteristics of Dual-Axis Cervical Accelerometry Signals. Annals of Biomedical Engineering, 2010, 38, 1048-1059.	1.3	35
140	Anthropometric and Demographic Correlates of Dual-Axis Swallowing Accelerometry Signal Characteristics: A Canonical Correlation Analysis. Dysphagia, 2010, 25, 94-103.	1.0	10
141	Classifying Affective States Using Thermal Infrared Imaging of the Human Face. IEEE Transactions on Biomedical Engineering, 2010, 57, 979-987.	2.5	115
142	Augmentative Communication Based on Realtime Vocal Cord Vibration Detection. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 159-163.	2.7	31
143	The effects of head movement on dual-axis cervical accelerometry signals. BMC Research Notes, 2010, 3, 269.	0.6	27
144	Investigating the correlation between paediatric stride interval persistence and gross energy expenditure. BMC Research Notes, 2010, 3, 47.	0.6	1

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145	An investigation of stride interval stationarity in a paediatric population. Human Movement Science, 2010, 29, 125-136.	0.6	9
146	Measures of dynamic stability: Detecting differences between walking overground and on a compliant surface. Human Movement Science, 2010, 29, 977-986.	0.6	60
147	The effect of treadmill walking on the stride interval dynamics of children. Human Movement Science, 2010, 29, 987-998.	0.6	9
148	Vocalization removal for improved automatic segmentation of dual-axis swallowing accelerometry signals. Medical Engineering and Physics, 2010, 32, 668-672.	0.8	15
149	Wearable indoor pedestrian dead reckoning system. Pervasive and Mobile Computing, 2010, 6, 351-361.	2.1	21
150	Understanding the statistical persistence of dual-axis swallowing accelerometry signals. Computers in Biology and Medicine, 2010, 40, 839-844.	3.9	7
151	The design and testing of a novel mechanomyogram-driven switch controlled by small eyebrow movements. Journal of NeuroEngineering and Rehabilitation, 2010, 7, 22.	2.4	27
152	On the use of peripheral autonomic signals for binary control of bodyâ€“machine interfaces. Physiological Measurement, 2010, 31, 1411-1422.	1.2	3
153	Hyolaryngeal excursion as the physiological source of swallowing accelerometry signals. Physiological Measurement, 2010, 31, 843-855.	1.2	40
154	Automatic detection of muscle activity from mechanomyogram signals: a comparison of amplitude and wavelet-based methods. Physiological Measurement, 2010, 31, 461-476.	1.2	18
155	Recognition of forearm muscle activity by continuous classification of multi-site mechanomyogram signals. , 2010, 2010, 3531-4.		16
156	Improving the performance of NIRS-based brain-computer interfaces in the presence of background auditory distractions. , 2010, , .		6
157	Classification of prefrontal activity due to mental arithmetic and music imagery using hidden Markov models and frequency domain near-infrared spectroscopy. Journal of Neural Engineering, 2010, 7, 026002.	1.8	134
158	Bedside computer access for an individual with severe and multiple disabilities: A case study. Disability and Rehabilitation: Assistive Technology, 2010, 5, 359-369.	1.3	23
159	Grip Force Variability and Its Effects on Childrenâ€™s Handwriting Legibility, Form, and Strokes. Journal of Biomechanical Engineering, 2010, 132, 114504.	0.6	34
160	A procedure for denoising dual-axis swallowing accelerometry signals. Physiological Measurement, 2010, 31, N1-N9.	1.2	37
161	Text Entry via Character Stroke Disambiguation for an Adolescent With Severe Motor Impairment and Cortical Visual Impairment. Assistive Technology, 2010, 22, 223-235.	1.2	5
162	Evaluation of a non-invasive vocal cord vibration switch as an alternative access pathway for an individual with hypotonic cerebral palsy â€“ a case study. Disability and Rehabilitation: Assistive Technology, 2010, 5, 69-78.	1.3	20

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163	A multiple camera tongue switch for a child with severe spastic quadriplegic cerebral palsy. Disability and Rehabilitation: Assistive Technology, 2010, 5, 58-68.	1.3	55
164	A cardiorespiratory classifier of voluntary and involuntary electrodermal activity. BioMedical Engineering OnLine, 2010, 9, 11.	1.3	14
165	The effect of accelerometer location on the classification of single-site forearm mechanomyograms. BioMedical Engineering OnLine, 2010, 9, 23.	1.3	25
166	Validating an infrared thermal switch as a novel access technology. BioMedical Engineering OnLine, 2010, 9, 38.	1.3	5
167	Effects of liquid stimuli on dual-axis swallowing accelerometry signals in a healthy population. BioMedical Engineering OnLine, 2010, 9, 7.	1.3	52
168	An Online Swallow Detection Algorithm Based on the Quadratic Variation of Dual-Axis Accelerometry. IEEE Transactions on Signal Processing, 2010, 58, 3352-3359.	3.2	34
169	Uncovering patterns of forearm muscle activity using multi-channel mechanomyography. Journal of Electromyography and Kinesiology, 2010, 20, 777-786.	0.7	44
170	An empirical examination of detrended fluctuation analysis for gait data. Gait and Posture, 2010, 31, 336-340.	0.6	93
171	Youth With Cerebral Palsy With Differing Upper Limb Abilities: How Do They Access Computers?. Archives of Physical Medicine and Rehabilitation, 2010, 91, 1952-1956.	0.5	17
172	Assessing the Viability of a Vocal Cord Vibration Switch for Four Children with Multiple Disabilities~!2009-10-06~!2010-02-19~!2010-04-02~!. The Open Rehabilitation Journal, 2010, 3, 55-61.	0.8	5
173	Classification of the mechanomyogram: Its potential as a multifunction access pathway. , 2009, 2009, 2951-4.		13
174	Decoding subjective preference from single-trial near-infrared spectroscopy signals. Journal of Neural Engineering, 2009, 6, 016003.	1.8	136
175	Reply to â€˜On the risk of extracting relevant information from random dataâ€™. Journal of Neural Engineering, 2009, 6, 058002.	1.8	5
176	Target-Directed Movements at a Comfortable Pace: Movement Duration and Fitts's Law. Journal of Motor Behavior, 2009, 41, 339-346.	0.5	28
177	The development of a home-based virtual reality therapy system to promote upper extremity movement for children with hemiplegic cerebral palsy. Technology and Disability, 2009, 21, 107-113.	0.3	38
178	Segmentation of Dual-Axis Swallowing Accelerometry Signals in Healthy Subjects With Analysis of Anthropometric Effects on Duration of Swallowing Activities. IEEE Transactions on Biomedical Engineering, 2009, 56, 1090-1097.	2.5	55
179	Effects of Age and Stimulus on Submental Mechanomyography Signals During Swallowing. Dysphagia, 2009, 24, 265-273.	1.0	11
180	Swallow segmentation with artificial neural networks and multi-sensor fusion. Medical Engineering and Physics, 2009, 31, 1049-1055.	0.8	30

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181	Misperceiving the speed-accuracy tradeoff: imagined movements and perceptual decisions. Experimental Brain Research, 2009, 192, 121-132.	0.7	21
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