

# Tom Tk Chau

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5977736/publications.pdf>

Version: 2024-02-01

230  
papers

9,547  
citations

46918

47  
h-index

48187

88  
g-index

231  
all docs

231  
docs citations

231  
times ranked

7626  
citing authors

#	ARTICLE	IF	CITATIONS
1	Upper limb prosthesis use and abandonment. <i>Prosthetics and Orthotics International</i> , 2007, 31, 236-257.	0.5	835
2	Short-Term Music Training Enhances Verbal Intelligence and Executive Function. <i>Psychological Science</i> , 2011, 22, 1425-1433.	1.8	526
3	Upper-Limb Prosthetics. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2007, 86, 977-987.	0.7	500
4	Consumer design priorities for upper limb prosthetics. <i>Disability and Rehabilitation: Assistive Technology</i> , 2007, 2, 346-357.	1.3	405
5	A review of analytical techniques for gait data. Part 1: fuzzy, statistical and fractal methods. <i>Gait and Posture</i> , 2001, 13, 49-66.	0.6	314
6	A review of analytical techniques for gait data. Part 2: neural network and wavelet methods. <i>Gait and Posture</i> , 2001, 13, 102-120.	0.6	245
7	Handwriting Difficulties in Children with Autism Spectrum Disorders: A Scoping Review. <i>Journal of Autism and Developmental Disorders</i> , 2011, 41, 1706-1716.	1.7	161
8	A Hybrid Brain-Computer Interface Based on the Fusion of P300 and SSVEP Scores. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2015, 23, 693-701.	2.7	148
9	Effects of user mental state on EEG-BCI performance. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 308.	1.0	142
10	Decoding subjective preference from single-trial near-infrared spectroscopy signals. <i>Journal of Neural Engineering</i> , 2009, 6, 016003.	1.8	136
11	Investigating the Autonomic Nervous System Response to Anxiety in Children with Autism Spectrum Disorders. <i>PLoS ONE</i> , 2013, 8, e59730.	1.1	136
12	Classification of prefrontal activity due to mental arithmetic and music imagery using hidden Markov models and frequency domain near-infrared spectroscopy. <i>Journal of Neural Engineering</i> , 2010, 7, 026002.	1.8	134
13	Towards a system-paced near-infrared spectroscopy brain-computer interface: differentiating prefrontal activity due to mental arithmetic and mental singing from the no-control state. <i>Journal of Neural Engineering</i> , 2011, 8, 066004.	1.8	134
14	Electroactive polymeric sensors in hand prostheses: Bending response of an ionic polymer metal composite. <i>Medical Engineering and Physics</i> , 2006, 28, 568-578.	0.8	133
15	Dielectric elastomers as actuators for upper limb prosthetics: Challenges and opportunities. <i>Medical Engineering and Physics</i> , 2008, 30, 403-418.	0.8	130
16	Real-Time Classification of Forearm Electromyographic Signals Corresponding to User-Selected Intentional Movements for Multifunction Prosthesis Control. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2007, 15, 535-542.	2.7	128
17	A Review of EEG-Based Brain-Computer Interfaces as Access Pathways for Individuals with Severe Disabilities. <i>Assistive Technology</i> , 2013, 25, 99-110.	1.2	122
18	Single-trial classification of NIRS signals during emotional induction tasks: towards a corporeal machine interface. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2009, 6, 39.	2.4	120

#	ARTICLE	IF	CITATIONS
19	Classifying Affective States Using Thermal Infrared Imaging of the Human Face. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 979-987.	2.5	115
20	A Self-Contained, Mechanomyography-Driven Externally Powered Prosthesis. <i>Archives of Physical Medicine and Rehabilitation</i> , 2005, 86, 2066-2070.	0.5	104
21	Managing variability in the summary and comparison of gait data. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2005, 2, 22.	2.4	103
22	A Review of Emerging Access Technologies for Individuals With Severe Motor Impairments. <i>Assistive Technology</i> , 2008, 20, 204-221.	1.2	101
23	Automatic single-trial discrimination of mental arithmetic, mental singing and the no-control state from prefrontal activity: toward a three-state NIRS-BCI. <i>BMC Research Notes</i> , 2012, 5, 141.	0.6	95
24	An empirical examination of detrended fluctuation analysis for gait data. <i>Gait and Posture</i> , 2010, 31, 336-340.	0.6	93
25	Changes in kinetics and kinematics of handwriting during a prolonged writing task in children with and without dysgraphia. <i>Research in Developmental Disabilities</i> , 2011, 32, 1058-1064.	1.2	86
26	EEG Classification of Covert Speech Using Regularized Neural Networks. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2017, 25, 2292-2300.	4.0	85
27	The Effects of Rhythmic Sensory Cues on the Temporal Dynamics of Human Gait. <i>PLoS ONE</i> , 2012, 7, e43104.	1.1	84
28	An Auditory-Tactile Visual Saccade-Independent P300 Brain-Computer Interface. <i>International Journal of Neural Systems</i> , 2016, 26, 1650001.	3.2	83
29	Time and time-frequency characterization of dual-axis swallowing accelerometry signals. <i>Physiological Measurement</i> , 2008, 29, 1105-1120.	1.2	71
30	Effect of treadmill walking on the stride interval dynamics of human gait. <i>Gait and Posture</i> , 2009, 30, 431-435.	0.6	71
31	Towards a multimodal brain-computer interface: Combining fNIRS and fTCD measurements to enable higher classification accuracy. <i>NeuroImage</i> , 2013, 77, 186-194.	2.1	71
32	A Passive EEG-BCI for Single-Trial Detection of Changes in Mental State. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 345-356.	2.7	71
33	Intersession Consistency of Single-Trial Classification of the Prefrontal Response to Mental Arithmetic and the No-Control State by NIRS. <i>PLoS ONE</i> , 2012, 7, e37791.	1.1	71
34	Automatic detection of a prefrontal cortical response to emotionally rated music using multi-channel near-infrared spectroscopy. <i>Journal of Neural Engineering</i> , 2012, 9, 026022.	1.8	69
35	Dynamic topographical pattern classification of multichannel prefrontal NIRS signals: II. Online differentiation of mental arithmetic and rest. <i>Journal of Neural Engineering</i> , 2014, 11, 016003.	1.8	68
36	Online EEG Classification of Covert Speech for Brain-Computer Interfacing. <i>International Journal of Neural Systems</i> , 2017, 27, 1750033.	3.2	67

#	ARTICLE	IF	CITATIONS
37	The roles of predisposing characteristics, established need, and enabling resources on upper extremity prosthesis use and abandonment. <i>Disability and Rehabilitation: Assistive Technology</i> , 2007, 2, 71-84.	1.3	66
38	A case study of linear classifiers adapted using imperfect labels derived from human event-related potentials. <i>Pattern Recognition Letters</i> , 2014, 37, 54-62.	2.6	63
39	Measures of dynamic stability: Detecting differences between walking overground and on a compliant surface. <i>Human Movement Science</i> , 2010, 29, 977-986.	0.6	60
40	On the development of a computer-based handwriting assessment tool to objectively quantify handwriting proficiency in children. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 104, e102-e111.	2.6	60
41	Multivariate prediction of upper limb prosthesis acceptance or rejection. <i>Disability and Rehabilitation: Assistive Technology</i> , 2008, 3, 181-192.	1.3	58
42	Segmentation of Dual-Axis Swallowing Accelerometry Signals in Healthy Subjects With Analysis of Anthropometric Effects on Duration of Swallowing Activities. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 1090-1097.	2.5	55
43	A multiple camera tongue switch for a child with severe spastic quadriplegic cerebral palsy. <i>Disability and Rehabilitation: Assistive Technology</i> , 2010, 5, 58-68.	1.3	55
44	Technological advancements and opportunities in Neuromarketing: a systematic review. <i>Brain Informatics</i> , 2020, 7, 10.	1.8	55
45	E-textiles in Clinical Rehabilitation: A Scoping Review. <i>Electronics (Switzerland)</i> , 2015, 4, 173-203.	1.8	54
46	Investigating the stationarity of paediatric aspiration signals. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2005, 13, 99-105.	2.7	53
47	Effects of liquid stimuli on dual-axis swallowing accelerometry signals in a healthy population. <i>BioMedical Engineering OnLine</i> , 2010, 9, 7.	1.3	52
48	Effect of Pencil Grasp on the Speed and Legibility of Handwriting in Children. <i>American Journal of Occupational Therapy</i> , 2012, 66, 718-726.	0.1	51
49	A Novel Instrument for Quantifying Grip Activity During Handwriting. <i>Archives of Physical Medicine and Rehabilitation</i> , 2006, 87, 1542-1547.	0.5	50
50	A radial basis classifier for the automatic detection of aspiration in children with dysphagia. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2006, 3, 14.	2.4	49
51	The effects of motion artifact on mechanomyography: A comparative study of microphones and accelerometers. <i>Journal of Electromyography and Kinesiology</i> , 2012, 22, 320-324.	0.7	49
52	Comparison of blood volume pulse and skin conductance responses to mental and affective stimuli at different anatomical sites. <i>Physiological Measurement</i> , 2011, 32, 1529-1539.	1.2	48
53	Implementing an iPad-based alternative communication device for a student with cerebral palsy and autism in the classroom via an access technology delivery protocol. <i>Computers and Education</i> , 2014, 79, 148-158.	5.1	48
54	Stationarity distributions of mechanomyogram signals from isometric contractions of extrinsic hand muscles during functional grasping. <i>Journal of Electromyography and Kinesiology</i> , 2008, 18, 509-515.	0.7	45

#	ARTICLE	IF	CITATIONS
55	Diagnosis of ankylosis in permanent incisors by expert ratings, PeriotestR and digital sound wave analysis. <i>Dental Traumatology</i> , 2005, 21, 206-212.	0.8	44
56	Uncovering patterns of forearm muscle activity using multi-channel mechanomyography. <i>Journal of Electromyography and Kinesiology</i> , 2010, 20, 777-786.	0.7	44
57	Assessing the potential of electrodermal activity as an alternative access pathway. <i>Medical Engineering and Physics</i> , 2008, 30, 498-505.	0.8	41
58	Hyolaryngeal excursion as the physiological source of swallowing accelerometry signals. <i>Physiological Measurement</i> , 2010, 31, 843-855.	1.2	40
59	Compressive sampling of swallowing accelerometry signals using time-frequency dictionaries based on modulated discrete prolate spheroidal sequences. <i>Eurasip Journal on Advances in Signal Processing</i> , 2012, 2012, .	1.0	40
60	Design and evaluation of a novel microphone-based mechanomyography sensor with cylindrical and conical acoustic chambers. <i>Medical Engineering and Physics</i> , 2012, 34, 1184-1190.	0.8	40
61	Online classification of imagined speech using functional near-infrared spectroscopy signals. <i>Journal of Neural Engineering</i> , 2019, 16, 016005.	1.8	39
62	The development of a home-based virtual reality therapy system to promote upper extremity movement for children with hemiplegic cerebral palsy. <i>Technology and Disability</i> , 2009, 21, 107-113.	0.3	38
63	A procedure for denoising dual-axis swallowing accelerometry signals. <i>Physiological Measurement</i> , 2010, 31, N1-N9.	1.2	37
64	Noninvasive Detection of Thin-Liquid Aspiration Using Dual-Axis Swallowing Accelerometry. <i>Dysphagia</i> , 2013, 28, 105-112.	1.0	37
65	Pattern discovery by residual analysis and recursive partitioning. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 1999, 11, 833-852.	4.0	35
66	Baseline Characteristics of Dual-Axis Cervical Accelerometry Signals. <i>Annals of Biomedical Engineering</i> , 2010, 38, 1048-1059.	1.3	35
67	Adding Real-Time Bayesian Ranks to Error-Related Potential Scores Improves Error Detection and Auto-Correction in a P300 Speller. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016, 24, 46-56.	2.7	35
68	Grip Force Variability and Its Effects on Children's Handwriting Legibility, Form, and Strokes. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 114504.	0.6	34
69	An Online Swallow Detection Algorithm Based on the Quadratic Variation of Dual-Axis Accelerometry. <i>IEEE Transactions on Signal Processing</i> , 2010, 58, 3352-3359.	3.2	34
70	A Brain-Computer Interface Based on Bilateral Transcranial Doppler Ultrasound. <i>PLoS ONE</i> , 2011, 6, e24170.	1.1	34
71	Classification of healthy and abnormal swallows based on accelerometry and nasal airflow signals. <i>Artificial Intelligence in Medicine</i> , 2011, 52, 17-25.	3.8	34
72	Development of a ternary hybrid fNIRS-EEG brain-computer interface based on imagined speech. <i>Brain-Computer Interfaces</i> , 2019, 6, 128-140.	0.9	34

#	ARTICLE	IF	CITATIONS
73	Characterizing emotional response to music in the prefrontal cortex using near infrared spectroscopy. <i>Neuroscience Letters</i> , 2012, 525, 7-11.	1.0	33
74	Movement-to-music computer technology: a developmental play experience for children with severe physical disabilities. <i>Occupational Therapy International</i> , 2007, 14, 99-112.	0.3	32
75	Automatic single-trial classification of prefrontal hemodynamic activity in an individual with Duchenne muscular dystrophy. <i>Developmental Neurorehabilitation</i> , 2013, 16, 67-72.	0.5	32
76	Writing Forces Associated With Four Pencil Grasp Patterns in Grade 4 Children. <i>American Journal of Occupational Therapy</i> , 2013, 67, 218-227.	0.1	32
77	Towards a ternary NIRS-BCI: single-trial classification of verbal fluency task, Stroop task and unconstrained rest. <i>Journal of Neural Engineering</i> , 2015, 12, 066008.	1.8	32
78	Augmentative Communication Based on Realtime Vocal Cord Vibration Detection. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2010, 18, 159-163.	2.7	31
79	Classification of Penetration–Aspiration Versus Healthy Swallows Using Dual-Axis Swallowing Accelerometry Signals in Dysphagic Subjects. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 1859-1866.	2.5	31
80	Statistical persistence and timing characteristics of repetitive circle drawing in children with ASD. <i>Developmental Neurorehabilitation</i> , 2013, 16, 245-254.	0.5	31
81	Swallow segmentation with artificial neural networks and multi-sensor fusion. <i>Medical Engineering and Physics</i> , 2009, 31, 1049-1055.	0.8	30
82	Investigating the Need for Modelling Temporal Dependencies in a Brain-Computer Interface with Real-Time Feedback Based on near Infrared Spectra. <i>Journal of Near Infrared Spectroscopy</i> , 2012, 20, 107-116.	0.8	29
83	Detection of Atypical and Typical Infant Movements using Computer-based Video Analysis. , 2018, 2018, 3598-3601.		29
84	Peripheral Autonomic Signals as Access Pathways for Individuals with Severe Disabilities: A Literature Appraisal. <i>The Open Rehabilitation Journal</i> , 2008, 1, 27-37.	0.8	29
85	Target-Directed Movements at a Comfortable Pace: Movement Duration and Fitts's Law. <i>Journal of Motor Behavior</i> , 2009, 41, 339-346.	0.5	28
86	Weaning Off Mental Tasks to Achieve Voluntary Self-Regulatory Control of a Near-Infrared Spectroscopy Brain-Computer Interface. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2015, 23, 548-561.	2.7	28
87	The effects of head movement on dual-axis cervical accelerometry signals. <i>BMC Research Notes</i> , 2010, 3, 269.	0.6	27
88	The design and testing of a novel mechanomyogram-driven switch controlled by small eyebrow movements. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2010, 7, 22.	2.4	27
89	Trends in Communicative Access Solutions for Children With Cerebral Palsy. <i>Journal of Child Neurology</i> , 2014, 29, 1108-1118.	0.7	27
90	Automated movement recognition to predict motor impairment in high-risk infants: a systematic review of diagnostic test accuracy and meta-analysis. <i>Developmental Medicine and Child Neurology</i> , 2021, 63, 637-648.	1.1	27

#	ARTICLE	IF	CITATIONS
91	Infrared thermography as an access pathway for individuals with severe motor impairments. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2009, 6, 11.	2.4	26
92	Development and evaluation of a dual-output vocal cord vibration switch for persons with multiple disabilities. <i>Disability and Rehabilitation: Assistive Technology</i> , 2012, 7, 82-88.	1.3	26
93	The effect of accelerometer location on the classification of single-site forearm mechanomyograms. <i>BioMedical Engineering OnLine</i> , 2010, 9, 23.	1.3	25
94	Challenges of developing communicative interaction in individuals with congenital profound intellectual and multiple disabilities. <i>Journal of Intellectual and Developmental Disability</i> , 2012, 37, 348-359.	1.1	25
95	A Method for Removal of Low Frequency Components Associated with Head Movements from Dual-Axis Swallowing Accelerometry Signals. <i>PLoS ONE</i> , 2012, 7, e33464.	1.1	25
96	Automatic discrimination between safe and unsafe swallowing using a reputation-based classifier. <i>BioMedical Engineering OnLine</i> , 2011, 10, 100.	1.3	24
97	Usability and performance-informed selection of personalized mental tasks for an online near-infrared spectroscopy brain-computer interface. <i>Neurophotonics</i> , 2015, 2, 025001.	1.7	24
98	Single-trial classification of near-infrared spectroscopy signals arising from multiple cortical regions. <i>Behavioural Brain Research</i> , 2015, 290, 131-142.	1.2	24
99	The effects of visual distractors on cognitive load in a motor imagery brain-computer interface. <i>Behavioural Brain Research</i> , 2020, 378, 112240.	1.2	24
100	Infrared thermal imaging as a physiological access pathway: a study of the baseline characteristics of facial skin temperatures. <i>Physiological Measurement</i> , 2009, 30, N23-N35.	1.2	23
101	Bedside computer access for an individual with severe and multiple disabilities: A case study. <i>Disability and Rehabilitation: Assistive Technology</i> , 2010, 5, 359-369.	1.3	23
102	Dynamic topographical pattern classification of multichannel prefrontal NIRS signals. <i>Journal of Neural Engineering</i> , 2013, 10, 046018.	1.8	23
103	Improving bit rate in an auditory BCI: Exploiting error-related potentials. <i>Brain-Computer Interfaces</i> , 2016, 3, 75-87.	0.9	23
104	Misperceiving the speed-accuracy tradeoff: imagined movements and perceptual decisions. <i>Experimental Brain Research</i> , 2009, 192, 121-132.	0.7	21
105	Wearable indoor pedestrian dead reckoning system. <i>Pervasive and Mobile Computing</i> , 2010, 6, 351-361.	2.1	21
106	Quantitative classification of pediatric swallowing through accelerometry. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2012, 9, 34.	2.4	21
107	Evaluation of a non-invasive vocal cord vibration switch as an alternative access pathway for an individual with hypotonic cerebral palsy – a case study. <i>Disability and Rehabilitation: Assistive Technology</i> , 2010, 5, 69-78.	1.3	20
108	Advancing Brain-Computer Interface Applications for Severely Disabled Children Through a Multidisciplinary National Network: Summary of the Inaugural Pediatric BCI Canada Meeting. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 593883.	1.0	20

#	ARTICLE	IF	CITATIONS
109	Automatic discrimination between cough and non-cough accelerometry signal artefacts. <i>Biomedical Signal Processing and Control</i> , 2019, 52, 394-402.	3.5	19
110	Brain-Computer Interfaces for Children With Complex Communication Needs and Limited Mobility: A Systematic Review. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 643294.	1.0	19
111	Automatic detection of muscle activity from mechanomyogram signals: a comparison of amplitude and wavelet-based methods. <i>Physiological Measurement</i> , 2010, 31, 461-476.	1.2	18
112	Partially supervised P300 speller adaptation for eventual stimulus timing optimization: target confidence is superior to error-related potential score as an uncertain label. <i>Journal of Neural Engineering</i> , 2016, 13, 026008.	1.8	18
113	Time-Frequency Analysis and Hermite Projection Method Applied to Swallowing Accelerometry Signals. <i>Eurasip Journal on Advances in Signal Processing</i> , 2010, 2010, .	1.0	17
114	Youth With Cerebral Palsy With Differing Upper Limb Abilities: How Do They Access Computers?. <i>Archives of Physical Medicine and Rehabilitation</i> , 2010, 91, 1952-1956.	0.5	17
115	Implications of prosthesis funding structures on the use of prostheses. <i>Prosthetics and Orthotics International</i> , 2011, 35, 215-224.	0.5	17
116	Automatic stride interval extraction from long, highly variable and noisy gait timing signals. <i>Human Movement Science</i> , 2002, 21, 495-514.	0.6	16
117	Recognition of forearm muscle activity by continuous classification of multi-site mechanomyogram signals. , 2010, 2010, 3531-4.		16
118	Vocal frequency estimation and voicing state prediction with surface EMG pattern recognition. <i>Speech Communication</i> , 2014, 63-64, 15-26.	1.6	16
119	Correlates of Near-Infrared Spectroscopy Brain-Computer Interface Accuracy in a Multi-Class Personalization Framework. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 536.	1.0	16
120	A Mathematical Model for Source Separation of MMG Signals Recorded With a Coupled Microphone-Accelerometer Sensor Pair. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 1493-1501.	2.5	15
121	Augmented environments for pediatric rehabilitation. <i>Technology and Disability</i> , 2006, 18, 167-171.	0.3	15
122	A novel integrated mechanomyogram-vocalization access solution. <i>Medical Engineering and Physics</i> , 2010, 32, 940-944.	0.8	15
123	Vocalization removal for improved automatic segmentation of dual-axis swallowing accelerometry signals. <i>Medical Engineering and Physics</i> , 2010, 32, 668-672.	0.8	15
124	Thermal Imaging of the Periorbital Regions during the Presentation of an Auditory Startle Stimulus. <i>PLoS ONE</i> , 2011, 6, e27268.	1.1	15
125	Pattern classification to optimize the performance of Transcranial Doppler Ultrasonography-based brain machine interface. <i>Pattern Recognition Letters</i> , 2015, 66, 135-143.	2.6	15
126	Investigating the effects of visual distractors on the performance of a motor imagery brain-computer interface. <i>Clinical Neurophysiology</i> , 2018, 129, 1268-1275.	0.7	15



#	ARTICLE	IF	CITATIONS
127	A wearable fabric-based speech-generating device: system design and case demonstration. Disability and Rehabilitation: Assistive Technology, 2019, 14, 434-444.	1.3	15
128	A cardiorespiratory classifier of voluntary and involuntary electrodermal activity. BioMedical Engineering OnLine, 2010, 9, 11.	1.3	14
129	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
130	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
131	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
132	Marginal maximum entropy partitioning yields asymptotically consistent probability density functions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2001, 23, 414-417.	9.7	13
133	Classification of the mechanomyogram: Its potential as a multifunction access pathway. , 2009, 2009, 2951-4.		13
134	Towards increased data transmission rate for a three-class metabolic brain-computer interface based on transcranial Doppler ultrasound. Neuroscience Letters, 2012, 528, 99-103.	1.0	13
135	Towards a hemodynamic BCI using transcranial Doppler without user-specific training data. Journal of Neural Engineering, 2013, 10, 016005.	1.8	13
136	Atypical autonomic nervous system complexity accompanies social cognition task performance in ASD. Research in Autism Spectrum Disorders, 2017, 39, 54-62.	0.8	13
137	Toward fabric-based EEG access technologies: Seamless knit electrodes for a portable brain-computer interface. , 2017, , .		13
138	Exploiting error-related potentials in cognitive task based BCI. Biomedical Physics and Engineering Express, 2018, 5, 015023.	0.6	13
139	Variability of Grip Kinetics during Adult Signature Writing. PLoS ONE, 2013, 8, e63216.	1.1	13
140	Choosing the fastest movement: perceiving speed-accuracy tradeoffs. Experimental Brain Research, 2008, 185, 681-688.	0.7	12
141	Fractal dimensions of pacing and grip force in drawing and handwriting production. Journal of Biomechanics, 2008, 41, 40-46.	0.9	12
142	An access technology delivery protocol for children with severe and multiple disabilities: A case demonstration. Developmental Neurorehabilitation, 2014, 17, 232-242.	0.5	12
143	Specificity of autonomic arousal to anxiety in children with autism spectrum disorder. Autism Research, 2016, 9, 491-501.	2.1	12
144	An MEG-Compatible Electromagnetic-Tracking System for Monitoring Orofacial Kinematics. IEEE Transactions on Biomedical Engineering, 2016, 63, 1709-1717.	2.5	12

#	ARTICLE	IF	CITATIONS
145	Development of a robust asynchronous brain-switch using ErrP-based error correction. <i>Journal of Neural Engineering</i> , 2019, 16, 066042.	1.8	12
146	Nonspecific Visuospatial Imagery as a Novel Mental Task for Online EEG-Based BCI Control. <i>International Journal of Neural Systems</i> , 2020, 30, 2050026.	3.2	12
147	Neurophysiological Synchrony Between Children With Severe Physical Disabilities and Their Parents During Music Therapy. <i>Frontiers in Neuroscience</i> , 2021, 15, 531915.	1.4	12
148	Effects of Age and Stimulus on Submental Mechanomyography Signals During Swallowing. <i>Dysphagia</i> , 2009, 24, 265-273.	1.0	11
149	Variability in Execution of the Chin-Down Maneuver by Healthy Adults. <i>Folia Phoniatrica Et Logopaedica</i> , 2011, 63, 36-42.	0.5	11
150	An investigation of stride interval stationarity while listening to music or viewing television. <i>Human Movement Science</i> , 2012, 31, 695-706.	0.6	11
151	Online transcranial Doppler ultrasonographic control of an onscreen keyboard. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 199.	1.0	11
152	Exploring methodological frameworks for a mental task-based near-infrared spectroscopy brain-computer interface. <i>Journal of Neuroscience Methods</i> , 2015, 254, 36-45.	1.3	11
153	Swallowing accelerometry signal feature variations with sensor displacement. <i>Medical Engineering and Physics</i> , 2015, 37, 665-673.	0.8	11
154	Electrode Fusion for the Prediction of Self-Initiated Fine Movements from Single-Trial Readiness Potentials. <i>International Journal of Neural Systems</i> , 2015, 25, 1550014.	3.2	11
155	Automated movement analysis to predict motor impairment in preterm infants: a retrospective study. <i>Journal of Perinatology</i> , 2019, 39, 1362-1369.	0.9	11
156	Altered Brain Activation in Youth following Concussion: Using a Dual-task Paradigm. <i>Developmental Neurorehabilitation</i> , 2021, 24, 187-198.	0.5	11
157	Systematic characterisation of silicon-embedded accelerometers for mechanomyography. <i>Medical and Biological Engineering and Computing</i> , 2003, 41, 290-295.	1.6	10
158	Anthropometric and Demographic Correlates of Dual-Axis Swallowing Accelerometry Signal Characteristics: A Canonical Correlation Analysis. <i>Dysphagia</i> , 2010, 25, 94-103.	1.0	10
159	Classification of Activity Engagement in Individuals with Severe Physical Disabilities Using Signals of the Peripheral Nervous System. <i>PLoS ONE</i> , 2012, 7, e30373.	1.1	10
160	The effects of listening to music or viewing television on human gait. <i>Computers in Biology and Medicine</i> , 2013, 43, 1497-1501.	3.9	10
161	Extraction of average neck flexion angle during swallowing in neutral and chin-tuck positions. <i>BioMedical Engineering OnLine</i> , 2009, 8, 25.	1.3	9
162	An investigation of stride interval stationarity in a paediatric population. <i>Human Movement Science</i> , 2010, 29, 125-136.	0.6	9

#	ARTICLE	IF	CITATIONS
163	The effect of treadmill walking on the stride interval dynamics of children. <i>Human Movement Science</i> , 2010, 29, 987-998.	0.6	9
164	Mechanomyography as an access pathway: corporeal contraindications. <i>Disability and Rehabilitation: Assistive Technology</i> , 2011, 6, 552-563.	1.3	9
165	Effect of pencil grasp on the speed and legibility of handwriting after a 10-minute copy task in Grade 4 children. <i>Australian Occupational Therapy Journal</i> , 2012, 59, 180-187.	0.6	9
166	Feature clustering for robust frequency-domain classification of EEG activity. <i>Journal of Neuroscience Methods</i> , 2016, 262, 77-84.	1.3	9
167	Quantifying fast optical signal and event-related potential relationships during a visual oddball task. <i>NeuroImage</i> , 2018, 178, 119-128.	2.1	9
168	Learning and mastery behaviours as risk factors to abandonment in a paediatric user of advanced single-switch access technology. <i>Disability and Rehabilitation: Assistive Technology</i> , 2013, 8, 426-433.	1.3	8
169	Autonomic responses to correct outcomes and interaction errors during single-switch scanning among children with severe spastic quadriplegic cerebral palsy. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 34.	2.4	8
170	Comparing electro- and mechano-myographic muscle activation patterns in self-paced pediatric gait. <i>Journal of Electromyography and Kinesiology</i> , 2017, 36, 73-80.	0.7	8
171	Online detection of error-related potentials in multi-class cognitive task-based BCIs. <i>Brain-Computer Interfaces</i> , 2019, 6, 1-12.	0.9	8
172	A novel asynchronous access method with binary interfaces. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2008, 5, 24.	2.4	7
173	Understanding the statistical persistence of dual-axis swallowing accelerometry signals. <i>Computers in Biology and Medicine</i> , 2010, 40, 839-844.	3.9	7
174	Preliminary findings on image preference characterization based on neurophysiological signal analysis: Towards objective QoE modeling. , 2012, , .		7
175	A novel approach to automatically quantify the level of coincident activity between EMG and MMG signals. <i>Journal of Electromyography and Kinesiology</i> , 2018, 41, 34-40.	0.7	7
176	Does music induce interbrain synchronization between a non-speaking youth with cerebral palsy (CP), a parent, and a neurologic music therapist? A brief report. <i>Developmental Neurorehabilitation</i> , 2022, 25, 426-432.	0.5	7
177	Vision-Based Segmentation of Continuous Mechanomyographic Grasping Sequences. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 765-773.	2.5	6
178	Improving the performance of NIRS-based brain-computer interfaces in the presence of background auditory distractions. , 2010, , .		6
179	Long Term Consistency of Handwriting Grip Kinetics in Adults. <i>Journal of Biomechanical Engineering</i> , 2014, 136, .	0.6	6
180	Challenges of implementing a personalized mental task near-infrared spectroscopy brain-computer interface for a non-verbal young adult with motor impairments. <i>Developmental Neurorehabilitation</i> , 2017, 20, 99-107.	0.5	6

#	ARTICLE	IF	CITATIONS
181	Development and testing an online near-infrared spectroscopy brain-computer interface tailored to an individual with severe congenital motor impairments. Disability and Rehabilitation: Assistive Technology, 2018, 13, 581-591.	1.3	6
182	On the Robustness of Stride Frequency Estimation. IEEE Transactions on Biomedical Engineering, 2004, 51, 294-303.	2.5	5
183	A flexible routing scheme for patients with topographical disorientation. Journal of NeuroEngineering and Rehabilitation, 2007, 4, 44.	2.4	5
184	Reply to "On the risk of extracting relevant information from random data". Journal of Neural Engineering, 2009, 6, 058002.	1.8	5
185	Application of infrared thermal imaging in rehabilitation engineering: preliminary results. , 2009, , .		5
186	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
187	Validating an infrared thermal switch as a novel access technology. BioMedical Engineering OnLine, 2010, 9, 38.	1.3	5
188	Mean Square Error Estimation in Thresholding. IEEE Signal Processing Letters, 2011, 18, 103-106.	2.1	5
189	Scaling analysis of baseline dual-axis cervical accelerometry signals. Computer Methods and Programs in Biomedicine, 2011, 103, 113-120.	2.6	5
190	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
191	An Integrated Approach to Detecting Communicative Intent Amid Hyperkinetic Movements in Children. AAC: Augmentative and Alternative Communication, 2011, 27, 150-162.	0.8	5
192	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
193	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
194	Assessing the Viability of a Vocal Cord Vibration Switch for Four Children with Multiple Disabilities. The Open Rehabilitation Journal, 2010, 3, 55-61.	0.8	5
195	Post-Segmentation Swallowing Accelerometry Signal Trimming and False Positive Reduction. IEEE Signal Processing Letters, 2016, 23, 1221-1225.	2.1	4
196	An online three-class Transcranial Doppler ultrasound brain computer interface. Neuroscience Research, 2016, 107, 47-56.	1.0	4
197	Predicting Linear Elongation With Conductive Thread-Based Sensors. IEEE Sensors Journal, 2017, 17, 6537-6548.	2.4	4
198	Mutual Information as a Measure of Contextual Effects on Single Switch Use. The Open Rehabilitation Journal, 2009, 2, 1-10.	0.8	4

#	ARTICLE	IF	CITATIONS
199	Neural representation of degree of preference in the medial prefrontal cortex. <i>NeuroReport</i> , 2009, 20, 1581-1585.	0.6	3
200	On the use of peripheral autonomic signals for binary control of body-machine interfaces. <i>Physiological Measurement</i> , 2010, 31, 1411-1422.	1.2	3
201	Centres for Leadership: a strategy for academic integration. <i>Journal of Health Organization and Management</i> , 2017, 31, 302-316.	0.6	3
202	Investigating sensory response to physical discomfort in children with autism spectrum disorder using near-infrared spectroscopy. <i>PLoS ONE</i> , 2021, 16, e0257029.	1.1	3
203	A comparison and classification of oscillatory characteristics in speech perception and covert speech. <i>Brain Research</i> , 2022, 1781, 147778.	1.1	3
204	Detecting Controlled Signals in the Human Brain by Near Infrared Spectroscopy. , 2006, 2006, 5480-2.		2
205	A Radial Basis Function Classifier for Pediatric Aspiration Detection. , 2006, 2006, 3553-6.		2
206	Using prefrontal cortex near-infrared spectroscopy and autonomic nervous system activity for identifying music-induced emotions. , 2013, , .		2
207	A review of past and future near-infrared spectroscopy brain computer interface research at the PRISM lab. , 2014, 2014, 1996-9.		2
208	Towards a physiological signal-based access solution for a non-verbal adolescent with severe and multiple disabilities. <i>Developmental Neurorehabilitation</i> , 2014, 17, 270-277.	0.5	2
209	Sequential hypothesis testing for automatic detection of task-related changes in cerebral perfusion in a brain-computer interface. <i>Neuroscience Research</i> , 2015, 100, 29-38.	1.0	2
210	Clustering of time-evolving scaling dynamics in a complex signal. <i>Physical Review E</i> , 2016, 94, 012220.	0.8	2
211	Single-Trial Analysis of Inter-Beat Interval Perturbations Accompanying Single-Switch Scanning: Case Series of Three Children With Severe Spastic Quadriplegic Cerebral Palsy. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016, 24, 261-271.	2.7	2
212	Application of an access technology delivery protocol to two children with cerebral palsy. <i>Disability and Rehabilitation: Assistive Technology</i> , 2016, 11, 166-175.	1.3	2
213	Client and family engagement in rehabilitation research: a framework for health care organizations. <i>Disability and Rehabilitation</i> , 2018, 40, 859-863.	0.9	2
214	Variability in Prefrontal Hemodynamic Response during Exposure to Repeated Self-Selected Music Excerpts, a Near-Infrared Spectroscopy Study. <i>PLoS ONE</i> , 2015, 10, e0122148.	1.1	2
215	Vision-based Segmentation of Continuous Mechanomyographic Grasping Sequences for Training Multifunction Prostheses. , 2006, 2006, 3624-7.		1
216	Intelligent Systems in Pediatric Rehabilitation. <i>Assistive Technology</i> , 2007, 19, 17-20.	1.2	1

#	ARTICLE	IF	CITATIONS
217	Investigating the correlation between paediatric stride interval persistence and gross energy expenditure. BMC Research Notes, 2010, 3, 47.	0.6	1
218	Evaluation of an ambient noise insensitive hum-based powered wheelchair controller. Disability and Rehabilitation: Assistive Technology, 2012, 7, 242-248.	1.3	1
219	Designing a wearable MMG-based mobile app for gait rehab. , 2017, , .		1
220	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
221	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
222	Ecological Design of an Augmentative and Alternative Communication Device Interface. Journal of Cognitive Engineering and Decision Making, 2021, 15, 175-197.	0.9	1
223	Automated adaptive heart interbeat time extraction from long term noisy and variable ECG signals. , 2006, 2006, 5775-8.		0
224	Reputation-Based Neural Network Combinations. , 2011, , .		0
225	Variation of grip force profile during signature writing. , 2014, , .		0
226	A Pediatric Correlational Study of Stride Interval Dynamics, Energy Expenditure and Activity Level. Pediatric Exercise Science, 2014, 26, 242-249.	0.5	0
227	Client-Centred Music Imagery Classification Based on Hidden Markov Models of Baseline Prefrontal Hemodynamic Response. , 0, , .		0
228	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
229	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
230	Detecting Controlled Signals in the Human Brain by Near Infrared Spectroscopy. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0