

CITATION REPORT

List of articles citing

Classification of finger movements for the dexterous hand prosthesis control with surface electromyography

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#	Paper	IF	Citations
238	A preliminary investigation of the effect of force variation for myoelectric control of hand prosthesis. 2013 , 2013, 5758-61		21
237	Protocol for site selection and movement assessment for the myoelectric control of a multi-functional upper-limb prosthesis. 2013 , 2013, 5817-20		2
236	Role of EEG as biomarker in the early detection and classification of dementia. 2014 , 2014, 906038		81
235	Recognizing sEMG Patterns for Interacting with Prosthetic Manipulation. 2014 , 283-307		
234	Swarm-wavelet based extreme learning machine for finger movement classification on transradial amputees. 2014 , 2014, 4192-5		4
233	Identification of low level sEMG signals for individual finger prosthesis. 2014 ,		4
232	Dexterous control of a prosthetic hand using fine-wire intramuscular electrodes in targeted extrinsic muscles. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014 , 22, 828-36	4.8	64
231	Invariant Surface EMG Feature Against Varying Contraction Level for Myoelectric Control Based on Muscle Coordination. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 874-82	7.2	65
230	Dynamical characteristics of surface EMG signals of hand grasps via recurrence plot. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 257-65	7.2	55
229	Control an exoskeleton for forearm rotation using FMG. 2014 ,		14
228	Correlation analysis of electromyogram signals for multiuser myoelectric interfaces. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014 , 22, 745-55	4.8	64
227	Swarm-based extreme learning machine for finger movement recognition. 2014 ,		2
226	Classification of Gesture based on sEMG Decomposition: A Preliminary Study. 2014 , 47, 2969-2974		2
225	Low Power Spinal Motion and Muscle Activity Monitor. 2014 ,		
224	Galileo bionic hand: sEMG activated approaches for a multifunction upper-limb prosthetic. 2015 ,		16
223	Mechatronic Hand Prosthesis for Child. 2015 ,		6
222	sEMG based quantitative assessment of acupuncture on Bell's palsy: an experimental study. 2015 , 58, 1-15		2

221 . 2015,

220 . 2015,

219 Experimental Study and Characterization of SEMG Signals for Upper Limbs. **2015**, 14, 1550028 13

218 Estimation of elbow joint angle by NARX model using EMG data. **2015**, 6

217 Design of an electromyographic mouse. **2015**, 3

216 Acquisition and Conditioning of Electromyographic Signals for Prosthetic Legs. **2015**, 1

215 Feature extraction and pattern recognition of EMG-based signal for hand movements. **2015**, 7

214 Wearable Sensing for Solid Biomechanics: A Review. *IEEE Sensors Journal*, **2015**, 1-1 4 35

213 A real-time pinch-to-zoom motion detection by means of a surface EMG-based human-computer interface. *Sensors*, **2014**, 15, 394-407 3.8 19

212 Evaluation of regression methods for the continuous decoding of finger movement from surface EMG and accelerometry. **2015**, 33

211 A Robust Bearing Fault Detection and Diagnosis Technique for Brushless DC Motors Under Non-stationary Operating Conditions. **2015**, 26, 241-254 29

210 . 2015,

209 Feasibility of NeuCube spiking neural network architecture for EMG pattern recognition. **2015**, 7

208 Nonnegative matrix factorization for the identification of EMG finger movements: evaluation using matrix analysis. *IEEE Journal of Biomedical and Health Informatics*, **2015**, 19, 478-485 7.2 77

207 A survey of sensor fusion methods in wearable robotics. **2015**, 73, 155-170 138

206 Implementation of a real-time automatic onset time detection for surface electromyography measurement systems using NI myRIO. **2016**, 20, 591-602 3

205 Force Myography to Control Robotic Upper Extremity Prostheses: A Feasibility Study. **2016**, 4, 18 70

204 Evaluating EMG Feature and Classifier Selection for Application to Partial-Hand Prosthesis Control. **2016**, 10, 15 45

203	. 2016,		1
202	. 2016,		5
201	EMG controlled low cost prosthetic arm. 2016,		9
200	. 2016,		3
199	Learning Probabilistic Features from EMG Data for Predicting Knee Abnormalities. 2016, 668-672		0
198	Towards a Versatile Surface Electromyography Classification System. 2016, 33-36		1
197	Combined influence of forearm orientation and muscular contraction on EMG pattern recognition. <i>Expert Systems With Applications</i> , 2016, 61, 154-161	7.8	99
196	Continuous Prediction of Finger Movements Using Force Myography. 2016, 36, 594-604		42
195	Proportional estimation of finger movements from high-density surface electromyography. 2016, 13, 73		35
194	Individual hand motion classification through EMG pattern recognition: Supervise and unsupervised methods. 2016,		4
193	An ensemble-based regression approach for continuous estimation of wrist and fingers movements from surface electromyography. 2016, 2016, 319-322		4
192	Myoelectric feature extraction using temporal-spatial descriptors for multifunction prosthetic hand control. 2016, 2016, 1696-1699		6
191	Hand gesture recognition based on sEMG signals using Support Vector Machines. 2016,		10
190	Short latency hand movement classification based on surface EMG spectrogram with PCA. 2016, 2016, 327-330		20
189	Gestural Interaction with Mobile Devices. 2016,		0
188	Continuous estimation of hand's joint angles from sEMG using wavelet-based features and SVR. 2016,		2
187	sEMG-Based Identification of Hand Motion Commands Using Wavelet Neural Network Combined With Discrete Wavelet Transform. 2016, 63, 1923-1934		96
186	Real-Time Classification of Hand Motions Using Ultrasound Imaging of Forearm Muscles. 2016, 63, 1687-98		67

185	Improving the Performance Against Force Variation of EMG Controlled Multifunctional Upper-Limb Prostheses for Transradial Amputees. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016 , 24, 650-61	4.8	157
184	Reduced Daily Recalibration of Myoelectric Prosthesis Classifiers Based on Domain Adaptation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016 , 20, 166-76	7.2	41
183	Development of a Multi-Channel Compact-Size Wireless Hybrid sEMG/NIRS Sensor System for Prosthetic Manipulation. <i>IEEE Sensors Journal</i> , 2016 , 16, 447-456	4	47
182	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> , 2016 , 24, 837-46	4.8	98
181	An Analysis of Intrinsic and Extrinsic Hand Muscle EMG for Improved Pattern Recognition Control. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016 , 24, 485-94	4.8	68
180	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> , 2016 , 24, 734-43	4.8	88
179	Chinese Sign Language Recognition Based on an Optimized Tree-Structure Framework. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017 , 21, 994-1004	7.2	40
178	Classification of Phantom Finger, Hand, Wrist, and Elbow Voluntary Gestures in Transhumeral Amputees With sEMG. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 68-77 ⁸	4.8	29
177	Ranking hand movements for myoelectric pattern recognition considering forearm muscle structure. 2017 , 55, 1507-1518		11
176	Single channel surface EMG control of advanced prosthetic hands: A simple, low cost and efficient approach. <i>Expert Systems With Applications</i> , 2017 , 79, 322-332	7.8	72
175	Deep learning-based artificial vision for grasp classification in myoelectric hands. 2017 , 14, 036025		81
174	Decodificaci3n de Movimientos Individuales de los Dedos y Agarre a Partir de Se~ales Mioel3ctricas de Baja Densidad. 2017 , 14, 184-192		3
173	A Framework of Temporal-Spatial Descriptors-Based Feature Extraction for Improved Myoelectric Pattern Recognition. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 1821-1831 ⁸	4.8	72
172	Classification of neuromuscular disorders using features extracted in the wavelet domain of sEMG signals: a case study. 2017 , 7, 33-39		4
171	Wireless sEMG-Based Body-Machine Interface for Assistive Technology Devices. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017 , 21, 967-977	7.2	22
170	SVM based simultaneous hand movements classification using sEMG signals. 2017 ,		10
169	Finger Movement Recognition During Ballistic Movements Using Electromyography. 2017 ,		1
168	Autonomous Selection of Closing Posture of a Robotic Hand Through Embodied Soft Matter Capacitive Sensors. <i>IEEE Sensors Journal</i> , 2017 , 17, 5669-5677	4	32

167	Towards Autonomous Grasping with Robotic Prosthetic Hands. 2017,		
166	Muscle Synergy-based Grasp Classification for Robotic Hand Prosthetics. 2017, 2017, 335-338		7
165	Classification of ankle joint movements based on surface electromyography signals for rehabilitation robot applications. 2017, 55, 747-758		20
164	Evaluation of extreme learning machine for classification of individual and combined finger movements using electromyography on amputees and non-amputees. 2017, 85, 51-68		37
163	Towards Chinese sign language recognition using surface electromyography and accelerometers. 2017,		7
162	Early prediction of future hand movements using sEMG data. 2017, 2017, 54-57		3
161	Myoelectric control systems for hand rehabilitation device: A review. 2017,		9
160	Wrist movement detection for prosthesis control using surface EMG and triaxial accelerometer. 2017,		3
159	Identification of finger movements from forearm surface EMG using an augmented probabilistic neural network. 2017,		3
158	Pilot study on fine finger movement regression, using FMG. 2017,		2
157	Exploring the relation between EMG sampling frequency and hand motion recognition accuracy. 2017,		11
156	EMG Spectral Analysis for Prosthetic Finger Control. 2017,		0
155	Multiple Sensors Based Hand Motion Recognition Using Adaptive Directed Acyclic Graph. <i>Applied Sciences (Switzerland),</i> 2017, 7, 358	2.6	18
154	Proof of Concept of an Online EMG-Based Decoding of Hand Postures and Individual Digit Forces for Prosthetic Hand Control. 2017, 8, 7		33
153	sEMG Sensor Using Polypyrrole-Coated Nonwoven Fabric Sheet for Practical Control of Prosthetic Hand. 2017, 11, 33		21
152	Improved prosthetic hand control with concurrent use of myoelectric and inertial measurements. 2017, 14, 71		91
151	Neural Reinforcement Learning based Identifier for Typing Keys using Forearm EMG Signals. 2017,		1
150	Dexterous hand gestures recognition based on low-density sEMG signals for upper-limb forearm amputees. 2017, 33, 202-217		5

149	A Novel Unsupervised Adaptive Learning Method for Long-Term Electromyography (EMG) Pattern Recognition. <i>Sensors</i> , 2017 , 17,	3.8	26
148	Discrimination of stroke-related mild cognitive impairment and vascular dementia using EEG signal analysis. 2018 , 56, 137-157		30
147	sEMG Signal Classification Using DWT and Bagging for Basic Hand Movements. 2018 ,		5
146	A Machine Learning System for Classification of EMG Signals to Assist Exoskeleton Performance. 2018 ,		5
145	Recurrent Neural Networks with Weighting Loss for Early prediction of Hand Movements. 2018 ,		12
144	Hand Motion Recognition Based on GA Optimized SVM Using sEMG Signals. 2018 ,		3
143	A Hybrid Cnn-Svm Classifier For Hand Gesture Recognition With Surface Emg Signals. 2018 ,		7
142	Recurrent Neural Network Based Early Prediction of Future Hand Movements. 2018 , 2018, 4710-4713		12
141	Trajectory Tracking Methodology using sEMG Signals for Tracking Finger Motions. 2018 ,		
140	Phantom-Mobility-Based Prosthesis Control in Transhumeral Amputees Without Surgical Reinnervation: A Preliminary Study. 2018 , 6, 164		3
139	Activity Detection from Wearable Electromyogram Sensors using Hidden Markov Model. 2018 ,		1
138	Adaptive Windowing Framework for Surface Electromyogram-Based Pattern Recognition System for Transradial Amputees. <i>Sensors</i> , 2018 , 18,	3.8	16
137	A Classification Method for Myoelectric Control of Hand Prostheses Inspired by Muscle Coordination. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 1745-1755	4.8	20
136	Hand gesture recognition using force myography of the forearm activities and optimized features. 2018 ,		10
135	Multi-length Windowed Feature Selection for Surface EMG Based Hand Motion Recognition. 2018 , 264-274		1
134	Prediction of Twist Angle for Assistive Exoskeleton Based on EMG Signals. 2018 ,		0
133	Combining EEG signal processing with supervised methods for Alzheimer's patients classification. 2018 , 18, 35		50
132	Simultaneous Force Regression and Movement Classification of Fingers Surface EMG within a Unified Bayesian Framework. 2018 , 6, 13		12

131	Robust hand gesture recognition with a double channel surface EMG wearable armband and SVM classifier. <i>Biomedical Signal Processing and Control</i> , 2018 , 46, 121-130	4.9	57
130	Evaluation of feature extraction techniques and classifiers for finger movement recognition using surface electromyography signal. 2018 , 56, 2259-2271		21
129	Myoelectric Pattern Recognition for Controlling a Robotic Hand: A Feasibility Study in Stroke. 2019 , 66, 365-372		38
128	Feature Extraction and Classification of Hand Movements Surface Electromyogram Signals Based on Multi-method Integration. 2019 , 49, 1179-1188		3
127	A Soft-Robotic Approach to Anthropomorphic Robotic Hand Dexterity. 2019 , 7, 101483-101495		39
126	Foot Gesture Recognition Through Dual Channel Wearable EMG System. <i>IEEE Sensors Journal</i> , 2019 , 19, 10187-10197	4	13
125	Pattern recognition of electromyography (EMG) signal for wrist movement using learning vector quantization (LVQ). 2019 , 506, 012020		4
124	. 2019 ,		4
123	Development of an Armband EMG Module and a Pattern Recognition Algorithm for the 5-Finger Myoelectric Hand Prosthesis. 2019 , 20, 1997-2006		11
122	putEMG-A Surface Electromyography Hand Gesture Recognition Dataset. <i>Sensors</i> , 2019 , 19,	3.8	19
121	Tracing the Motion of Finger Joints for Gesture Recognition via Sewing RGO-Coated Fibers Onto a Textile Glove. <i>IEEE Sensors Journal</i> , 2019 , 19, 9504-9511	4	17
120	Proprioceptive Sonomyographic Control: A novel method for intuitive and proportional control of multiple degrees-of-freedom for individuals with upper extremity limb loss. <i>Scientific Reports</i> , 2019 , 9, 9499	4.9	29
119	A Soft Exoglove Equipped With a Wearable Muscle-Machine Interface Based on Force Myography and Electromyography. 2019 , 4, 3240-3246		20
118	Real-Time EMG Based Pattern Recognition Control for Hand Prostheses: A Review on Existing Methods, Challenges and Future Implementation. <i>Sensors</i> , 2019 , 19,	3.8	79
117	Feature Analysis for Classification of Physical Actions Using Surface EMG Data. <i>IEEE Sensors Journal</i> , 2019 , 19, 12196-12204	4	15
116	Tonic Cold Pain Detection Using Choi-Williams Time-Frequency Distribution Analysis of EEG Signals: A Feasibility Study. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3433	2.6	7
115	Electromyogram-controlled assistive devices. 2019 , 285-311		1
114	Myoelectric Signal Classification of Targeted Muscles Using Dictionary Learning. <i>Sensors</i> , 2019 , 19,	3.8	4

113	Formulation of a new gradient descent MARG orientation algorithm: Case study on robot teleoperation. 2019 , 130, 183-200	34
112	Finger movements recognition using minimally redundant features of wavelet denoised EMG. 2019 , 9, 579-593	7
111	A Neural Network Classification of sEMG Signals for Estimation of Force While Gripping. 2019 , 585-593	0
110	A Review on Electromyography Decoding and Pattern Recognition for Human-Machine Interaction. 2019 , 7, 39564-39582	73
109	Offline and online myoelectric pattern recognition analysis and real-time control of a robotic hand after spinal cord injury. 2019 , 16, 036018	15
108	Prediction of Individual Finger Forces Based on Decoded Motoneuron Activities. 2019 , 47, 1357-1368	20
107	A Wavelet-Based Approach for Estimating the Joint Angles of the Fingers and Wrist Using Electromyography Signals. 2019 , 31-45	
106	Introduction and Background. 2019 , 1-26	2
105	New Technologies to Improve Patient Rehabilitation. 2019 ,	
104	Pattern Classification and Its Applications to Control of Biomechatronic Systems. 2019 , 139-154	2
103	Finger Movement Pattern Recognition from Surface EMG Signals Using Machine Learning Algorithms. 2019 , 75-89	3
102	Exploring the Relation Between EMG Pattern Recognition and Sampling Rate Using Spectrogram. 2019 , 14, 947-953	4
101	Recognition of Finger Motions Based on Surface Electromyographic Signals and Artificial Neural Network. 2019 ,	
100	sEMG signal based hand and finger movement classification using different classifiers and techniques : A Review. 2019 ,	
99	Myoelectric Control for Upper Limb Prostheses. 2019 , 8, 1244	13
98	Learn the Temporal-Spatial Feature of sEMG via Dual-Flow Network. 2019 , 16, 1941004	7
97	Toward the gestural interface: comparative analysis between touch user interfaces versus gesture-based user interfaces on mobile devices. 2019 , 18, 107-126	8
96	A multi-stream convolutional neural network for sEMG-based gesture recognition in muscle-computer interface. 2019 , 119, 131-138	75

95	A new hand finger movements classification system based on bicoherence analysis of two-channel surface EMG signals. 2019 , 31, 3327-3337		3
94	. 2019 , 11, 162-175		26
93	Surface electromyography feature extraction via convolutional neural network. 2020 , 11, 185-196		24
92	Sparsity Analysis of a Sonomyographic Muscle-Computer Interface. 2020 , 67, 688-696		11
91	Selection of Features and Classifiers for EMG-EEG-Based Upper Limb Assistive Devices-A Review. 2020 , 13, 248-260		11
90	Electromyogram (EMG) based fingers movement recognition using sparse filtering of wavelet packet coefficients. 2020 , 45, 1		5
89	Locomo-Net: A Low -Complex Deep Learning Framework for sEMG-Based Hand Movement Recognition for Prosthetic Control. 2020 , 8, 2100812		5
88	Guiding the Training of Users With a Pattern Similarity Biofeedback to Improve the Performance of Myoelectric Pattern Recognition. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 1731-1741	4.8	1
87	A review of the key technologies for sEMG-based human-robot interaction systems. <i>Biomedical Signal Processing and Control</i> , 2020 , 62, 102074	4.9	31
86	Multi-Segmentation Parallel CNN Model for Estimating Assembly Torque Using Surface Electromyography Signals. <i>Sensors</i> , 2020 , 20,	3.8	4
85	Compliant Underwater Manipulator with Integrated Tactile Sensor for Nonlinear Force Feedback Control of an SMA Actuation System. 2020 , 315, 112221-112221		3
84	Toward Universal Neural Interfaces for Daily Use: Decoding the Neural Drive to Muscles Generalises Highly Accurate Finger Task Identification Across Humans. 2020 , 8, 149025-149035		4
83	LSTM Classification of sEMG Signals For Individual Finger Movements Using Low Cost Wearable Sensor. 2020 ,		4
82	Simultaneous Hand Gesture Classification and Finger Angle Estimation via a Novel Dual-Output Deep Learning Model. <i>Sensors</i> , 2020 , 20,	3.8	9
81	Adaptive Spatial Filtering of High-Density EMG for Reducing the Influence of Noise and Artefacts in Myoelectric Control. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 1511-1517	4.8	12
80	A spiking network classifies human sEMG signals and triggers finger reflexes on a robotic hand. 2020 , 131, 103566		1
79	Performance evaluation of pattern recognition networks using electromyography signal and time-domain features for the classification of hand gestures. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020 , 234, 639-648	1.7	5
78	EMG-driven hand model based on the classification of individual finger movements. <i>Biomedical Signal Processing and Control</i> , 2020 , 58, 101834	4.9	20

77	Efficient correction of armband rotation for myoelectric-based gesture control interface. 2020 , 17, 036025	6
76	. 2020 , 8, 56290-56299	5
75	Dynamic Analysis and Performance Verification of a Novel Hip Prosthetic Mechanism. 2020 , 33,	6
74	A Real-Time Capable Linear Time Classifier Scheme for Anticipated Hand Movements Recognition from Amputee Subjects Using Surface EMG Signals. 2021 , 42, 277-293	5
73	A Novel Signal Normalization Approach to Improve the Force Invariant Myoelectric Pattern Recognition of Transradial Amputees. 2021 , 9, 79853-79868	4
72	Surface EMG vs. High-Density EMG: Tradeoff Between Performance and Usability for Head Orientation Prediction in VR Application. 2021 , 9, 45418-45427	2
71	A low-cost transradial prosthesis controlled by the intention of muscular contraction. 2021 , 44, 229-241	5
70	Single-channel surface electromyography (sEMG) based control of a multi-functional prosthetic hand. 2021 , 49, 428-444	1
69	Grasp to See-Object Classification Using Flexion Glove with Support Vector Machine. <i>Sensors</i> , 2021 , 21,	3.8 0
68	. 2021 ,	
67	EMG based classification for pick and place task. 2021 , 7,	1
66	Locomotion Mode Recognition for Walking on Three Terrains Based on sEMG of Lower Limb and Back Muscles. <i>Sensors</i> , 2021 , 21,	3.8 1
65	LSTM Classification of Functional Grasps Using sEMG Data from Low-Cost Wearable Sensor. 2021 ,	2
64	Measurements comparison of finger joint angles in hand postures between an sEMG armband and a sensory glove. 2021 , 41, 605-616	1
63	Force-Invariant Improved Feature Extraction Method for Upper-Limb Prostheses of Transradial Amputees. 2021 , 11,	4
62	Concurrent Estimation of Finger Flexion and Extension Forces Using Motoneuron Discharge Information. 2021 , 68, 1638-1645	4
61	Effects of Sampling Rate and Window Length on Motion Recognition Using sEMG Armband Module. 2021 , 22, 1401	1
60	Multimodal Data Fusion of Electromyography and Acoustic Signals for Thai Syllable Recognition. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 1997-2006	7.2 2

59	A Statistical Method for Exploratory Data Analysis Based on 2D and 3D Area under Curve Diagrams: Parkinson's Disease Investigation. <i>Sensors</i> , 2021 , 21,	3.8	2
58	Automated estimation of clinical parameters by recurrence quantification analysis of surface EMG for agonist/antagonist muscles in amputees. <i>Biomedical Signal Processing and Control</i> , 2021 , 68, 102740	4.9	0
57	Hand gestures recognition from surface electromyogram signal based on self-organizing mapping and radial basis function network. <i>Biomedical Signal Processing and Control</i> , 2021 , 68, 102629	4.9	5
56	A Novel Adaptive Mutation PSO Optimized SVM Algorithm for sEMG-Based Gesture Recognition. 2021 , 2021, 1-13		2
55	Classification of sEMG signals of hand gestures based on energy features. <i>Biomedical Signal Processing and Control</i> , 2021 , 70, 102948	4.9	3
54	Pattern recognition of EMG signals for low level grip force classification. 2021 , 7,		4
53	Design of upper limb prosthesis using real-time motion detection method based on EMG signal processing. <i>Biomedical Signal Processing and Control</i> , 2021 , 70, 103062	4.9	3
52	Development of a Surface EMG Acquisition System with Novel Electrodes Configuration and Signal Representation. 2013 , 405-414		14
51	Electromyography (EMG) signal classification for wrist movement using naïve bayes classifier. 2019 , 1424, 012013		2
50	Spatial Mapping and Feature Analysis for Individual Finger Movements Using High Density Electromyography: Preliminary Study. 2020 , 8, 75-79		1
49	INDEX FINGER MOTION RECOGNITION USING SELF-ADVISE SUPPORT VECTOR MACHINE. 2014 , 7, 644-657		5
48	Auto-Encoder based Deep Learning for Surface Electromyography Signal Processing. 2018 , 3, 94-102		3
47	Robustness of Combined sEMG and Ultrasound Modalities Against Muscle Fatigue in Force Estimation. 2021 , 213-221		1
46	Biosignal-Based Human-Machine Interfaces for Assistance and Rehabilitation: A Survey. <i>Sensors</i> , 2021 , 21,	3.8	4
45	Development of a Highly Dexterous Robotic Hand with Independent Finger Movements for Amputee Training. 2014 , 291-293		0
44	Gesture Recognition Through Classification of Acoustic Muscle Sensing for Prosthetic Control. 2017 , 637-642		4
43	Feature Extraction of Surface EMG Using Wavelet Transform for Identification of Motor Neuron Disorder. 2018 , 363-373		
42	Motion prediction using electromyography and sonomyography for an individual with transhumeral limb loss.		0

41	Improving Gesture Recognition by Bidirectional Temporal Convolutional Networks. 2020 , 413-424		0
40	Electromyography-Based Detection of Human Hand Movement Gestures. 2021 , 729-735		
39	Classification of Individual Finger Movements from Right Hand Using fNIRS Signals. <i>Sensors</i> , 2021 , 21,	3.8	1
38	A Novel Hybrid Approach to Pattern Recognition of Finger Movements and Grasping Gestures in Upper Limb Amputees. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	2
37	Effect of velocity and acceleration in joint angle estimation for an EMG-Based upper-limb exoskeleton control.. <i>Computers in Biology and Medicine</i> , 2021 , 141, 105156	7	1
36	A Novel Water Proof Prosthetic Hand Based on Conductive Silicon sEMG Sensors. 2020 ,		
35	Head-Orientation-Prediction Based on Deep Learning on sEMG for Low-Latency Virtual Reality Application. 2020 ,		
34	Dynamic hand gesture recognition using a stretchable multi-layer capacitive array, proximity sensing, and a SVM classifier. 2021 ,		1
33	EMG Signal Classification Using Reflection Coefficients and Extreme Value Machine. 2021 ,		1
32	A novel concatenate feature fusion RCNN architecture for sEMG-based hand gesture recognition.. <i>PLoS ONE</i> , 2022 , 17, e0262810	3.7	0
31	Comparing subject-to-subject transfer learning methods in surface electromyogram-based motion recognition with shallow and deep classifiers. <i>Neurocomputing</i> , 2022 ,	5.4	1
30	XAI for myo-controlled prosthesis: Explaining EMG data for hand gesture classification. <i>Knowledge-Based Systems</i> , 2022 , 240, 108053	7.3	2
29	Assistive robotic exoskeleton using recurrent neural networks for decision taking for the robust trajectory tracking. <i>Expert Systems With Applications</i> , 2022 , 193, 116482	7.8	1
28	Review on electromyography based intention for upper limb control using pattern recognition for human-machine interaction.. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2022 , 9544119221074770	1.7	4
27	Multichannel haptic feedback unlocks prosthetic hand dexterity.. <i>Scientific Reports</i> , 2022 , 12, 2323	4.9	2
26	Myoelectric Control Performance of Two Degree of Freedom Hand-Wrist Prosthesis by Able-Bodied and Limb-Absent Subjects.. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022 , PP,	4.8	0
25	A machine learning approach to identify hand actions from single-channel sEMG signals.. <i>Biomedizinische Technik</i> , 2022 ,	1.3	0
24	sEMG Signals Characterization and Identification of Hand Movements by Machine Learning Considering Sex Differences. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2962	2.6	1

23	Hierarchical Classification of Grasp Motions using EMG signals. 2021 ,		
22	An Approach for sEMG-based Gesture Recognition Using Continuous Wavelet Transform and AlexNet Convolutional Neural Network. 2021 ,		1
21	EMG Driven Robotic-Aided Arm Rehabilitation. <i>Mechanisms and Machine Science</i> , 2022 , 343-350		0.3
20	Evaluation of feature projection techniques in object grasp classification using electromyogram signals from different limb positions. <i>PeerJ Computer Science</i> , 8, e949		2.7 1
19	A hybrid approach to product prototype usability testing based on surface EMG images and convolutional neural network classification. <i>Computer Methods and Programs in Biomedicine</i> , 2022 , 106870	6.9	0
18	Study on Intention Recognition and Sensory Feedback: Control of Robotic Prosthetic Hand through EMG Classification and Proprioceptive Feedback using Rule-based Haptic Device. <i>IEEE Transactions on Haptics</i> , 2022 , 1-1	2.7	0
17	A chaotic neural network model for biceps muscle based on Rossler stimulation equation and bifurcation diagram. <i>Biomedical Signal Processing and Control</i> , 2022 , 78, 103852	4.9	0
16	Selection of the Best Set of Features for sEMG-Based Hand Gesture Recognition Applying a CNN Architecture. <i>Sensors</i> , 2022 , 22, 4972	3.8	
15	Hand Movement Recognition with Long Short-Term Memory based Pattern Recognition of Acoustic Myography signals. 2022 ,		
14	Research on sEMG-based gesture recognition using the Attention-based LSTM-CNN with Stationary Wavelet Packet Transform. 2022 ,		
13	Hand Gesture Recognition with Acoustic Myography and Wavelet Scattering Transform. 2022 , 1-1		0
12	Toward Online Removal of Cardiac Interference From Trunk Electromyography by Morphological Modeling of the Electrocardiography. 2022 , 1, 1-9		0
11	Continuous Estimation of Human Joint Angles from sEMG Using a Multi-Feature Temporal Convolutional Attention-Based Network. 2022 , 1-12		0
10	Decoding of multiple wrist and hand movements using a transient EMG classifier. 2022 , 1-1		0
9	Transfer learning in hand movement intention detection based on surface electromyography signals. 16,		0
8	A systematic review on surface electromyography-based classification system for identifying hand and finger movements. 2023 , 3, 100126		0
7	Development of a wearable ultrasound transducer for sensing muscle activities in assistive robotics applications: In vivo study. 2022 ,		0
6	DL-Net: Sparsity Prior Learning for Grasp Pattern Recognition. 2023 , 1-1		0

- 5 Reinforcement Learning-Based Grasp Pattern Control of Upper Limb Prosthetics in an AI Platform. **2022**, ○
- 4 Natural Grasp Intention Recognition Based on Gaze in HumanRobot Interaction. **2023**, 1-12 ○
- 3 Optimizing electrode positions on forearm to increase SNR and myoelectric pattern recognition performance. **2023**, 122, 106160 ○
- 2 FlexType: Flexible Text Input with a Small Set of Input Gestures. **2023**, ○
- 1 Recent trends and challenges of surface electromyography in prosthetic applications. ○