

Xinjun Sheng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/538271/publications.pdf>

Version: 2024-02-01

189
papers

2,937
citations

185998

28
h-index

223531

46
g-index

193
all docs

193
docs citations

193
times ranked

2180
citing authors

#	ARTICLE	IF	CITATIONS
1	A soft neuroprosthetic hand providing simultaneous myoelectric control and tactile feedback. <i>Nature Biomedical Engineering</i> , 2023, 7, 589-598.	11.6	169
2	Feasibility of Wrist-Worn, Real-Time Hand, and Surface Gesture Recognition via sEMG and IMU Sensing. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 3376-3385.	7.2	145
3	User adaptation in long-term, open-loop myoelectric training: implications for EMG pattern recognition in prosthesis control. <i>Journal of Neural Engineering</i> , 2015, 12, 046005.	1.8	126
4	Invariant Surface EMG Feature Against Varying Contraction Level for Myoelectric Control Based on Muscle Coordination. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014, 19, 1-1.	3.9	88
5	Toward an Enhanced Human-Machine Interface for Upper-Limb Prosthesis Control With Combined EMG and NIRS Signals. <i>IEEE Transactions on Human-Machine Systems</i> , 2017, 47, 564-575.	2.5	81
6	Combining Motor Imagery With Selective Sensation Toward a Hybrid-Modality BCI. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 2304-2312.	2.5	78
7	Improving robustness against electrode shift of high density EMG for myoelectric control through common spatial patterns. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 110.	2.4	77
8	Continuous estimation of finger joint angles under different static wrist motions from surface EMG signals. <i>Biomedical Signal Processing and Control</i> , 2014, 14, 265-271.	3.5	75
9	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.	2.4	68
10	Hand gesture recognition based on motor unit spike trains decoded from high-density electromyography. <i>Biomedical Signal Processing and Control</i> , 2020, 55, 101637.	3.5	65
11	Mechanomyography Assisted Myoelectric Sensing for Upper-Extremity Prostheses: A Hybrid Approach. <i>IEEE Sensors Journal</i> , 2017, 17, 3100-3108.	2.4	64
12	Shared control of a robotic arm using non-invasive brain-computer interface and computer vision guidance. <i>Robotics and Autonomous Systems</i> , 2019, 115, 121-129.	3.0	59
13	Simultaneously Optimizing Spatial Spectral Features Based on Mutual Information for EEG Classification. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 227-240.	2.5	58
14	Reduced Daily Recalibration of Myoelectric Prosthesis Classifiers Based on Domain Adaptation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 166-176.	3.9	58
15	Quantification and solutions of arm movements effect on sEMG pattern recognition. <i>Biomedical Signal Processing and Control</i> , 2014, 13, 189-197.	3.5	57
16	Fast Recognition of BCI-Inefficient Users Using Physiological Features from EEG Signals: A Screening Study of Stroke Patients. <i>Frontiers in Neuroscience</i> , 2018, 12, 93.	1.4	55
17	Adaptive Real-Time Identification of Motor Unit Discharges From Non-Stationary High-Density Surface Electromyographic Signals. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 3501-3509.	2.5	51
18	Reliability study of board-level lead-free interconnections under sequential thermal cycling and drop impact. <i>Microelectronics Reliability</i> , 2009, 49, 530-536.	0.9	50

#	ARTICLE	IF	CITATIONS
19	A method for creating reliable and low-resistance contacts between carbon nanotubes and microelectrodes. <i>Carbon</i> , 2007, 45, 436-442.	5.4	46
20	Prediction of finger kinematics from discharge timings of motor units: implications for intuitive control of myoelectric prostheses. <i>Journal of Neural Engineering</i> , 2019, 16, 026005.	1.8	41
21	Selective Sensation Based Brain-Computer Interface via Mechanical Vibrotactile Stimulation. <i>PLoS ONE</i> , 2013, 8, e64784.	1.1	38
22	A novel calibration and task guidance framework for motor imagery BCI via a tendon vibration induced sensation with kinesthesia illusion. <i>Journal of Neural Engineering</i> , 2015, 12, 016005.	1.8	38
23	A Stimulus-Independent Hybrid BCI Based on Motor Imagery and Somatosensory Attentional Orientation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 1674-1682.	2.7	38
24	Cascaded Adaptation Framework for Fast Calibration of Myoelectric Control. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 254-264.	2.7	37
25	Simultaneous and proportional control of wrist and hand movements by decoding motor unit discharges in real time. <i>Journal of Neural Engineering</i> , 2021, 18, 056010.	1.8	36
26	Towards Zero Retraining for Myoelectric Control Based on Common Model Component Analysis. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016, 24, 444-454.	2.7	34
27	A New Time Synchronization Method for Reducing Quantization Error Accumulation Over Real-Time Networks: Theory and Experiments. <i>IEEE Transactions on Industrial Informatics</i> , 2013, 9, 1659-1669.	7.2	32
28	Enhanced Motor Imagery-Based BCI Performance via Tactile Stimulation on Unilateral Hand. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 585.	1.0	32
29	Tactile Stimulation Improves Sensorimotor Rhythm-Based BCI Performance in Stroke Patients. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1987-1995.	2.5	32
30	Improving Myoelectric Control for Amputees through Transcranial Direct Current Stimulation. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1927-1936.	2.5	31
31	Modelling strategies for reconfigurable assembly systems. <i>Assembly Automation</i> , 2003, 23, 266-272.	1.0	30
32	A BCI System Based on Somatosensory Attentional Orientation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 81-90.	2.7	29
33	EMG Signal Filtering Based on Variational Mode Decomposition and Sub-Band Thresholding. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 47-58.	3.9	29
34	Spatial Information Enhances Myoelectric Control Performance With Only Two Channels. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 1226-1233.	7.2	28
35	Design of a myoelectric prosthetic hand implementing postural synergy mechanically. <i>Industrial Robot</i> , 2014, 41, 447-455.	1.2	26
36	Toward an Integrated Multi-Modal sEMG/MMG/NIRS Sensing System for Human-Machine Interface Robust to Muscular Fatigue. <i>IEEE Sensors Journal</i> , 2021, 21, 3702-3712.	2.4	25

#	ARTICLE	IF	CITATIONS
37	Improved Semisupervised Adaptation for a Small Training Dataset in the Brain-Computer Interface. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1461-1472.	3.9	24
38	Sensory Stimulation Training for BCI System Based on Somatosensory Attentional Orientation. IEEE Transactions on Biomedical Engineering, 2019, 66, 640-646.	2.5	24
39	Common spatial-spectral analysis of EMG signals for multiday and multiuser myoelectric interface. Biomedical Signal Processing and Control, 2019, 53, 101572.	3.5	24
40	Adaptive Aerial Grasping and Perching With Dual Elasticity Combined Suction Cup. IEEE Robotics and Automation Letters, 2020, 5, 4766-4773.	3.3	24
41	Multi-DoF continuous estimation for wrist torques using stacked autoencoder. Biomedical Signal Processing and Control, 2020, 57, 101733.	3.5	23
42	A Multi-Class BCI Based on Somatosensory Imagery. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1508-1515.	2.7	21
43	Electrode Density Affects the Robustness of Myoelectric Pattern Recognition System With and Without Electrode Shift. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 156-163.	3.9	21
44	Surface Electromyography Image-Driven Torque Estimation of Multi-DoF Wrist Movements. IEEE Transactions on Industrial Electronics, 2022, 69, 795-804.	5.2	21
45	A Multi-Class Tactile Brain-Computer Interface Based on Stimulus-Induced Oscillatory Dynamics. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 3-10.	2.7	20
46	ACF-COG interconnection conductivity inspection system using conductive area. Microelectronics Reliability, 2013, 53, 622-628.	0.9	19
47	A prosthetic arm based on EMG pattern recognition. , 2016, , .		19
48	Attenuating the impact of limb position on surface EMG pattern recognition using a mixed-LDA classifier. , 2017, , .		19
49	Soft ionic-hydrogel electrodes for electroencephalography signal recording. Science China Technological Sciences, 2021, 64, 273-282.	2.0	19
50	Modal analysis of board-level electronic package. Microelectronic Engineering, 2008, 85, 610-620.	1.1	18
51	An Active Sense and Avoid System for Flying Robots in Dynamic Environments. IEEE/ASME Transactions on Mechatronics, 2021, 26, 668-678.	3.7	18
52	Decoding Covert Somatosensory Attention by a BCI System Calibrated With Tactile Sensation. IEEE Transactions on Biomedical Engineering, 2018, 65, 1689-1695.	2.5	17
53	An Artificially Weighted Spanning Tree Coverage Algorithm for Decentralized Flying Robots. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1689-1698.	3.4	17
54	Effects of Long-Term Myoelectric Signals on Pattern Recognition. Lecture Notes in Computer Science, 2013, , 396-404.	1.0	17

#	ARTICLE	IF	CITATIONS
55	Development of a decentralized multi-axis synchronous control approach for real-time networks. ISA Transactions, 2017, 68, 116-126.	3.1	16
56	Ball Motion Control in the Table Tennis Robot System Using Time-Series Deep Reinforcement Learning. IEEE Access, 2021, 9, 99816-99827.	2.6	15
57	Development of a real-time hand gesture recognition wristband based on sEMG and IMU sensing. , 2016, , .		14
58	Improving Myoelectric Pattern Recognition Robustness to Electrode Shift by Autoencoder. , 2018, 2018, 5652-5655.		14
59	A Novel Framework Based on Position Verification for Robust Myoelectric Control Against Sensor Shift. IEEE Sensors Journal, 2019, 19, 9859-9868.	2.4	14
60	Electrotactile Feedback with Spatial and Mixed Coding for Object Identification and Closed-loop Control of Grasping Force in Myoelectric Prostheses. , 2019, 2019, 1805-1808.		13
61	Preliminary Testing of a Hand Gesture Recognition Wristband Based on EMG and Inertial Sensor Fusion. Lecture Notes in Computer Science, 2015, , 359-367.	1.0	13
62	Position Identification for Robust Myoelectric Control Against Electrode Shift. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 3121-3128.	2.7	13
63	Performance of Brain-Computer Interfacing Based on Tactile Selective Sensation and Motor Imagery. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 60-68.	2.7	12
64	Assessing differential representation of hand movements in multiple domains using stereo-electroencephalographic recordings. NeuroImage, 2022, 250, 118969.	2.1	12
65	Design and Development of a Multi-rotor Unmanned Aerial Vehicle System for Bridge Inspection. Lecture Notes in Computer Science, 2016, , 498-510.	1.0	11
66	Electrical stimulation-induced SSSEP as an objective index to evaluate the difference of tactile acuity between the left and right hand. Journal of Neural Engineering, 2020, 17, 016053.	1.8	11
67	Computationally Efficient Trajectory Planning for High Speed Obstacle Avoidance of a Quadrotor With Active Sensing. IEEE Robotics and Automation Letters, 2021, 6, 3365-3372.	3.3	11
68	Wrist Torque Estimation via Electromyographic Motor Unit Decomposition and Image Reconstruction. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2557-2566.	3.9	11
69	Non-Invasive Analysis of Motor Unit Activation During Simultaneous and Continuous Wrist Movements. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2106-2115.	3.9	11
70	Mechanical implementation of postural synergies using a simple continuum mechanism. , 2014, , .		10
71	A wireless wearable sEMG and NIRS acquisition system for an enhanced human-computer interface. , 2014, , .		10
72	Towards Chinese sign language recognition using surface electromyography and accelerometers. , 2017, , .		10

#	ARTICLE	IF	CITATIONS
73	Improved discrete fourier transform based spectral feature for surface electromyogram signal classification. , 2013, 2013, 6897-900.		9
74	Design and Testing of a Self-Adaptive Prosthetic Finger with a Compliant Driving Mechanism. International Journal of Humanoid Robotics, 2014, 11, 1450026.	0.6	9
75	Assessment of muscle fatigue by simultaneous sEMG and NIRS: From the perspective of electrophysiology and hemodynamics. , 2017, , .		9
76	Nonlinear analysis and parameters identification of servo mechanism with relay feedback. Assembly Automation, 2010, 30, 221-227.	1.0	8
77	Particle on Bump (POB) technique for ultra-fine pitch chip on glass (COG) applications by conductive particles and adhesives. Microelectronics Reliability, 2014, 54, 825-832.	0.9	8
78	Towards Finger Gestures and Force Recognition Based on Wrist Electromyography and Accelerometers. Lecture Notes in Computer Science, 2017, , 373-380.	1.0	8
79	Neural Modulation By Repetitive Transcranial Magnetic Stimulation (rTMS) for BCI Enhancement in Stroke Patients. , 2018, 2018, 2272-2275.		8
80	An Efficient Approach for Stability Analysis and Parameter Tuning in Delayed Feedback Control of a Flying Robot Carrying a Suspended Load. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	8
81	A musculoskeletal model driven by muscle synergy-derived excitations for hand and wrist movements. Journal of Neural Engineering, 2022, 19, 016027.	1.8	8
82	Electrotactile Feedback Improves Grip Force Control and Enables Object Stiffness Recognition While Using a Myoelectric Hand. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 1310-1320.	2.7	8
83	Towards semi-supervised myoelectric finger motion recognition based on spatial motor units activation. Science China Technological Sciences, 2022, 65, 1232-1242.	2.0	8
84	An Application of Real-time Operating System in High Speed and High Precision Motion Control Systems. , 2007, , .		7
85	Synergy-Driven Myoelectric Control for EMG-Based Prosthetic Manipulation: A Case Study. International Journal of Humanoid Robotics, 2014, 11, 1450013.	0.6	7
86	Structure Optimization and Implementation of a Lightweight Sandwiched Quadcopter. Lecture Notes in Computer Science, 2015, , 220-229.	1.0	7
87	Development of a Hybrid Surface EMG and MMG Acquisition System for Human Hand Motion Analysis. Lecture Notes in Computer Science, 2015, , 329-337.	1.0	7
88	Aerial Contact Manipulation With Soft End-Effector Compliance and Inverse Kinematic Compensation. Journal of Mechanisms and Robotics, 2021, 13, .	1.5	7
89	Cooperative Transportation With Mobile Manipulator: A Capability Map-Based Framework for Physical Human-Robot Collaboration. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4396-4405.	3.7	7
90	An enhanced human-computer interface based on simultaneous sEMG and NIRS for prostheses control. , 2014, , .		6

#	ARTICLE	IF	CITATIONS
91	Towards the Analysis and Optimization of Underactuated Hands for Effective Grasp. International Journal of Humanoid Robotics, 2016, 13, 1650004.	0.6	6
92	High-performance transmission mechanism for robotic applications. Mechanism and Machine Theory, 2016, 105, 176-184.	2.7	6
93	Relationship Between Offline and Online Metrics in Myoelectric Pattern Recognition Control Based on Target Achievement Control Test. , 2019, 2019, 6595-6598.		6
94	A new algorithm for blink correction adaptive to inter- and intra-subject variability. Computers in Biology and Medicine, 2019, 114, 103442.	3.9	6
95	Towards optimizing the non-invasive sensory feedback interfaces in a neural prosthetic control. Journal of Neural Engineering, 2022, 19, 016028.	1.8	6
96	Thermal and Mechanical Loading Effects on the Reliability of COG-ACF with Thin Glass by FEA. , 2005, , .		5
97	Evaluation of a double-layer anisotropic conductive film (ACF) for fine pitch chip-on-glass (COG) interconnection. , 0, , .		5
98	Visual Stimulus Background Effects on SSVEP-Based BCI Towards a Practical Robot Car Control. International Journal of Humanoid Robotics, 2015, 12, 1550014.	0.6	5
99	A Feasibility Study on an Intuitive Teleoperation System Combining IMU with sEMG Sensors. Lecture Notes in Computer Science, 2018, , 465-474.	1.0	5
100	A Task-Priority Coordinated Motion Planner Combined with Visual Servo for Mobile Manipulator*. , 2019, , .		5
101	Design of an Anthropomorphic Prosthetic Hand towards Neural Interface Control. Lecture Notes in Computer Science, 2012, , 507-517.	1.0	4
102	A new feature extraction method based on autoregressive power spectrum for improving sEMG classification. , 2013, 2013, 5746-9.		4
103	A hybrid BCI study: Temporal optimization for EEG single-trial classification by exploring hemodynamics from the simultaneously measured NIRS data. , 2014, , .		4
104	Towards zero training for myoelectric control based on a wearable wireless sEMG armband. , 2015, , .		4
105	Electrocorticographic Temporal Alteration Mapping: A Clinical Technique for Mapping the Motor Cortex with Movement-Related Cortical Potentials. Frontiers in Neuroscience, 2017, 11, 326.	1.4	4
106	eConHand: A Wearable Brain-Computer Interface System for Stroke Rehabilitation. , 2019, , .		4
107	Visual Servoing of Micro Aerial Vehicles with the Cooperation of Ground Vehicle. , 2020, , .		4
108	Operational-space wrench and acceleration capability analysis for multi-link cable-driven robots. Science China Technological Sciences, 2020, 63, 2063-2072.	2.0	4

#	ARTICLE	IF	CITATIONS
109	Design and postural synergy synthesis of a prosthetic hand for a manipulation task. , 2013, , .		3
110	Mechanical vibrotactile stimulation effect in motor imagery based brain-computer interface. , 2013, 2772-5.		3
111	A comparison of open-loop and closed-loop adaptive calibration for pattern recognition based myoelectric control. , 2015, 2015, 1144-7.		3
112	Rate-dependent hysteresis in the EMG-force relationship: A new discovery in EMG-force relationship. , 2015, , .		3
113	Transcranial direct current stimulation versus user training on improving online myoelectric control for amputees. Journal of Neural Engineering, 2017, 14, 046019.	1.8	3
114	Common Spatial Pattern with Polarity Check for reducing delay latency in detection of MRCP based BCI system. , 2017, , .		3
115	Hybrid sEMG, NIRS and MMG Sensor System. , 2018, , .		3
116	Continuous Estimation of Grasp Kinematics with Real-Time Surface EMG Decomposition. Lecture Notes in Computer Science, 2019, , 108-119.	1.0	3
117	A Visual SLAM System with Laser Assisted Optimization. , 2019, , .		3
118	Continuous estimation of wrist torques with stack-autoencoder based deep neural network: A preliminary study. , 2019, , .		3
119	Centimeter-Level Aerial Assembly Achieved With Manipulating Condition Inference and Compliance. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1660-1671.	3.7	3
120	Channel selection against electrode shift enables robust myoelectric control without retraining. Science China Technological Sciences, 2021, 64, 1653-1662.	2.0	3
121	Evaluating User and Machine Learning in Short- and Long-Term Pattern Recognition-Based Myoelectric Control. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 777-785.	2.7	3
122	Exploring Fatigue Effects on Performance Variation of Intensive Brain-Computer Interface Practice. Frontiers in Neuroscience, 2021, 15, 773790.	1.4	3
123	Particle on Bump (POB) Technique for Ultra-Fine Pitch Chip on Glass (COG) Applications. , 2007, , .		2
124	Inverse control of a class of nonlinear systems with modified generalized Prandtl-Ishlinskii hysteresis. , 2012, , .		2
125	Enhanced motor imagery based brain-computer interface via unilateral wrist vibrotactile stimulation. , 2013, , .		2
126	Preliminary study on proportional and simultaneous estimation of hand posture using surface EMG based on synergy concept. , 2013, 2013, 6199-202.		2

#	ARTICLE	IF	CITATIONS
127	Residuals of autoregressive model providing additional information for feature extraction of pattern recognition-based myoelectric control. , 2015, 2015, 7270-3.		2
128	Subject-Specific EMG Modeling with Multiple Muscles: A Preliminary Study. , 2020, 2020, 740-743.		2
129	Self-Related Stimuli Decoding With Auditory and Visual Modalities Using Stereo-Electroencephalography. Frontiers in Neuroscience, 2021, 15, 653965.	1.4	2
130	A programmable, multichannel, miniature stimulator for electrotactile feedback of neural hand prostheses. , 2021, , .		2
131	Feature Fusion based Efficient Convolution Network for Real-time Table Tennis Ball Detection. , 2020, , .		2
132	Design of Fingertip Pressure Sensors for Prosthetic Hands. , 2020, , .		2
133	What should be the input: Investigating the environment representations in sim-to-real transfer for navigation tasks. Robotics and Autonomous Systems, 2022, 153, 104081.	3.0	2
134	Electrodes Adaptive Model in Estimating the Depth of Motor Unit: A Motor Unit Action Potential Based Approach. , 2021, 2021, 673-676.		2
135	Development of A Hybrid Mini-Grid sEMG, NIRS and MMG Sensor System for Human-Machine Interaction. , 2021, , .		2
136	Toward a Wireless Wearable System for Bidirectional Human-Machine Interface With Gesture Recognition and Vibration Feedback. IEEE Sensors Journal, 2022, 22, 9462-9472.	2.4	2
137	Trajectory Estimation of a Flying Robot With a Single Ranging Beacon and Derived Velocity Constraints. IEEE Transactions on Industrial Electronics, 2023, 70, 5024-5033.	5.2	2
138	Time-stamped cross-coupled control in networked CNC systems. , 2011, , .		1
139	A linear model for simultaneously and proportionally estimating wrist kinematics from emg during mirrored bilateral movements. , 2013, 2013, 4593-6.		1
140	A portable multi-channel wireless NIRS device for muscle activity real-time monitoring. , 2014, 2014, 3719-22.		1
141	Effects of contraction path and velocity on the coordination of hand muscles during a three-digit force production task. , 2014, 2014, 5864-7.		1
142	Improving myoelectric pattern recognition using invariant feature extraction. , 2014, , .		1
143	Enhanced robustness of myoelectric pattern recognition to across-day variation through invariant feature extraction. , 2015, 2015, 7262-5.		1
144	A Trajectory Planning and Control System for Quadrotor Unmanned Aerial Vehicle in Field Inspection Missions. Lecture Notes in Computer Science, 2017, , 551-562.	1.0	1

#	ARTICLE	IF	CITATIONS
145	Influence of Spontaneous Rhythm on Movement-Related Cortical Potential - A Preliminary Neurofeedback Study. Lecture Notes in Computer Science, 2017, , 90-98.	1.0	1
146	Arm movements effect on grasping force prediction using surface electromyography signals. , 2017, , .		1
147	A Novel Method for Detecting Joint Angles Based on Inertial and Magnetic Sensors. , 2018, , .		1
148	Analytical Modelling of Surface EMG Signals Generated by Curvilinear Fibers With Approximate Conductivity Tensor. IEEE Transactions on Biomedical Engineering, 2022, 69, 1052-1062.	2.5	1
149	Design of a NURBS Interpolator with Predicted Tangent Constraints. Lecture Notes in Computer Science, 2015, , 597-608.	1.0	1
150	Automatic Grasp Planning Algorithm for Synergistic Underactuated Hands. Lecture Notes in Computer Science, 2016, , 431-442.	1.0	1
151	A Common Prosthetic Rehabilitation Platform Based on Modular Design. Lecture Notes in Computer Science, 2018, , 244-254.	1.0	1
152	A Pulse Condition Reproduction Apparatus for Remote Traditional Chinese Medicine. Lecture Notes in Computer Science, 2018, , 453-464.	1.0	1
153	Cylinder Fitting of Coupler Using an Improved Genetic Algorithm. , 2021, , .		1
154	On Detecting the Invariant Neural Drive to Muscles during Repeated Hand Motions: A Preliminary Study. , 2021, , .		1
155	A novel realtime vision-based acupoint estimation for TCM massage robot. , 2021, , .		1
156	Task-oriented base position estimation for mobile TCM massage robot. , 2021, , .		1
157	Nonlinear Analysis and Application of Servo Control System Based on Relay Feedback. Lecture Notes in Computer Science, 2009, , 755-764.	1.0	0
158	Effect of vibrotactile feedback on an EMG-based proportional cursor control system. , 2013, 2013, 3070-3.		0
159	A single-trial decoding method by integrating accumulated continuous classification for motor imagery based BCI. , 2014, , .		0
160	Boosting training for myoelectric pattern recognition using Mixed-LDA. , 2014, 2014, 14-7.		0
161	Modelling and analyzing of postural synergy based underactuated robotic hand with contact and friction constraints. , 2015, , .		0
162	Long-term paired sensory stimulation training for improved motor imagery BCI performance via pavlovian conditioning theory. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
163	Optimal trajectory control for capturing a mobile sound source. , 2015, , .		0
164	Towards the Development of Fractional-Order Flight Controllers for the Quadrotor. Lecture Notes in Computer Science, 2016, , 63-74.	1.0	0
165	Design and Implementation of Data Communication Module for a Multi-motor Drive and Control Integrated System Based on DSP. Lecture Notes in Computer Science, 2016, , 75-86.	1.0	0
166	Virtual Environments for Hand Rehabilitation with Force Feedback. Lecture Notes in Computer Science, 2016, , 459-470.	1.0	0
167	Navigation and Control for an Unmanned Aerial Vehicle. Lecture Notes in Computer Science, 2016, , 373-383.	1.0	0
168	Feasibility of a Sensorimotor Rhythm Based Mobile Brain-Computer Interface. Lecture Notes in Computer Science, 2016, , 443-452.	1.0	0
169	A High-Flexible ACC/DEC Look-Ahead Strategy Based on Quintic BÄ©zier Feed Rate Curve. Lecture Notes in Computer Science, 2016, , 697-708.	1.0	0
170	Cortical oscillatory dynamics of tactile selective sensation - for a novel type of somatosensory Brain-computer Interface. , 2017, 2017, 1656-1659.		0
171	An efficient grasp planning algorithm for 3-D objects considering hand configuration. , 2017, , .		0
172	Evaluation of Human Proprioceptive Matching Ability in Discrete Grasping Motions: Implications for the Sensory Reconstruction of Prosthetic Hand. , 2018, , .		0
173	Estimating the single-DoF kinematics of wrist from motor unit behaviors. , 2019, , .		0
174	Electrical stimulation-induced SSSEP as an objective index for the evaluation of sensory ability. , 2019, , .		0
175	Generating Spatial Semantic Representations for Indoor Global Mapping. , 2019, , .		0
176	Estimation of Motor Unit Global Firing Rate by Maximum Power Amplitude. , 2019, 2019, 6607-6610.		0
177	Study of Muscular Fatigue Effect on Human-Machine Interface Using Electromyography and Near-Infrared Spectroscopy. Lecture Notes in Computer Science, 2021, , 804-812.	1.0	0
178	Towards Enhancing Motor Imagery Based Brain-Computer Interface Performance by Integrating Speed of Imagined Movement. Lecture Notes in Computer Science, 2014, , 234-241.	1.0	0
179	A Vibro-tactile Stimulation and Vibro-signature Synchronization Device for SSSEP-Based Study. Lecture Notes in Computer Science, 2017, , 57-68.	1.0	0
180	State Estimation for Swarm UAVs Under Data Dropout Condition. Lecture Notes in Computer Science, 2018, , 81-91.	1.0	0

#	ARTICLE	IF	CITATIONS
181	Dual-durometer combination of vacuum cup for aerial grasping. , 2020, , .		0
182	A Motor Unit-specific Images Based Scheme for Continuous Estimation of Wrist Torques - A Pilot Study. , 2020, , .		0
183	Estimation of Positions and Orientations of Activated Muscle Fibers with Electrode Array. , 2021, , .		0
184	Computationally Efficient Topological Mapping With Layered Spanning Trees. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4067-4077.	3.7	0
185	Spontaneous State Detection Using Time-Frequency and Time-Domain Features Extracted From Stereo-Electroencephalography Traces. Frontiers in Neuroscience, 2022, 16, 818214.	1.4	0
186	Nut Projection Welding Robotic System for Industrial Parts Based on Machine Vision. , 2021, , .		0
187	Assessment of sEMG Performance and its Correlation with Upper Fugl-Meyer Assessment in Stroke Patients. , 2021, , .		0
188	Hierarchical Classification of Grasp Motions using EMG signals. , 2021, , .		0
189	Phase-amplitude coupling between low-frequency scalp EEG and high-frequency intracranial EEG during working memory task. Journal of Neural Engineering, 2022, 19, 026043.	1.8	0