

Xinjun Sheng

List of Publications by Year in descending order

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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	Trajectory Estimation of a Flying Robot With a Single Ranging Beacon and Derived Velocity Constraints. <i>IEEE Transactions on Industrial Electronics</i> , 2023, 70, 5024-5033.	5.2	2
3	Centimeter-Level Aerial Assembly Achieved With Manipulating Condition Inference and Compliance. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 1660-1671.	3.7	3
4	Surface Electromyography Image-Driven Torque Estimation of Multi-DoF Wrist Movements. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 795-804.	5.2	21
5	Analytical Modelling of Surface EMG Signals Generated by Curvilinear Fibers With Approximate Conductivity Tensor. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1052-1062.	2.5	1
6	Non-Invasive Analysis of Motor Unit Activation During Simultaneous and Continuous Wrist Movements. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 2106-2115.	3.9	11
7	Towards optimizing the non-invasive sensory feedback interfaces in a neural prosthetic control. <i>Journal of Neural Engineering</i> , 2022, 19, 016028.	1.8	6
8	A musculoskeletal model driven by muscle synergy-derived excitations for hand and wrist movements. <i>Journal of Neural Engineering</i> , 2022, 19, 016027.	1.8	8
9	Assessing differential representation of hand movements in multiple domains using stereo-electroencephalographic recordings. <i>NeuroImage</i> , 2022, 250, 118969.	2.1	12
10	Computationally Efficient Topological Mapping With Layered Spanning Trees. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 4067-4077.	3.7	0
11	Cooperative Transportation With Mobile Manipulator: A Capability Map-Based Framework for Physical Human-Robot Collaboration. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 4396-4405.	3.7	7
12	Spontaneous State Detection Using Time-Frequency and Time-Domain Features Extracted From Stereo-Electroencephalography Traces. <i>Frontiers in Neuroscience</i> , 2022, 16, 818214.	1.4	0
13	What should be the input: Investigating the environment representations in sim-to-real transfer for navigation tasks. <i>Robotics and Autonomous Systems</i> , 2022, 153, 104081.	3.0	2
14	Toward a Wireless Wearable System for Bidirectional Human-Machine Interface With Gesture Recognition and Vibration Feedback. <i>IEEE Sensors Journal</i> , 2022, 22, 9462-9472.	2.4	2
15	Phase-amplitude coupling between low-frequency scalp EEG and high-frequency intracranial EEG during working memory task. <i>Journal of Neural Engineering</i> , 2022, 19, 026043.	1.8	0
16	Electrotactile Feedback Improves Grip Force Control and Enables Object Stiffness Recognition While Using a Myoelectric Hand. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 1310-1320.	2.7	8
17	Towards semi-supervised myoelectric finger motion recognition based on spatial motor units activation. <i>Science China Technological Sciences</i> , 2022, 65, 1232-1242.	2.0	8
18	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

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19	Toward an Integrated Multi-Modal sEMG/MMG/NIRS Sensing System for Human-Computer Machine Interface Robust to Muscular Fatigue. <i>IEEE Sensors Journal</i> , 2021, 21, 3702-3712.	2.4	25
20	Soft ionic-hydrogel electrodes for electroencephalography signal recording. <i>Science China Technological Sciences</i> , 2021, 64, 273-282.	2.0	19
21	Ball Motion Control in the Table Tennis Robot System Using Time-Series Deep Reinforcement Learning. <i>IEEE Access</i> , 2021, 9, 99816-99827.	2.6	15
22	Computationally Efficient Trajectory Planning for High Speed Obstacle Avoidance of a Quadrotor With Active Sensing. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 3365-3372.	3.3	11
23	An Active Sense and Avoid System for Flying Robots in Dynamic Environments. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 668-678.	3.7	18
24	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
25	Self-Related Stimuli Decoding With Auditory and Visual Modalities Using Stereo-Electroencephalography. <i>Frontiers in Neuroscience</i> , 2021, 15, 653965.	1.4	2
26	A programmable, multichannel, miniature stimulator for electrotactile feedback of neural hand prostheses. , 2021, , .		2
27	Channel selection against electrode shift enables robust myoelectric control without retraining. <i>Science China Technological Sciences</i> , 2021, 64, 1653-1662.	2.0	3
28	Wrist Torque Estimation via Electromyographic Motor Unit Decomposition and Image Reconstruction. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 2557-2566.	3.9	11
29	Evaluating User and Machine Learning in Short- and Long-Term Pattern Recognition-Based Myoelectric Control. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 777-785.	2.7	3
30	Study of Muscular Fatigue Effect on Human-Machine Interface Using Electromyography and Near-Infrared Spectroscopy. <i>Lecture Notes in Computer Science</i> , 2021, , 804-812.	1.0	0
31	Aerial Contact Manipulation With Soft End-Effector Compliance and Inverse Kinematic Compensation. <i>Journal of Mechanisms and Robotics</i> , 2021, 13, .	1.5	7
32	Exploring Fatigue Effects on Performance Variation of Intensive Brain-Computer Interface Practice. <i>Frontiers in Neuroscience</i> , 2021, 15, 773790.	1.4	3
33	Estimation of Positions and Orientations of Activated Muscle Fibers with Electrode Array. , 2021, , .		0
34	Cylinder Fitting of Coupler Using an Improved Genetic Algorithm. , 2021, , .		1
35	On Detecting the Invariant Neural Drive to Muscles during Repeated Hand Motions: A Preliminary Study. , 2021, , .		1
36	A novel realtime vision-based acupoint estimation for TCM massage robot. , 2021, , .		1

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37	Task-oriented base position estimation for mobile TCM massage robot. , 2021, , .		1
38	Nut Projection Welding Robotic System for Industrial Parts Based on Machine Vision. , 2021, , .		0
39	Assessment of sEMG Performance and its Correlation with Upper Fugl-Meyer Assessment in Stroke Patients. , 2021, , .		0
40	Electrodes Adaptive Model in Estimating the Depth of Motor Unit: A Motor Unit Action Potential Based Approach. , 2021, 2021, 673-676.		2
41	Development of A Hybrid Mini-Grid sEMG, NIRS and MMG Sensor System for Human-Machine Interaction. , 2021, , .		2
42	Hierarchical Classification of Grasp Motions using EMG signals. , 2021, , .		0
43	Hand gesture recognition based on motor unit spike trains decoded from high-density electromyography. Biomedical Signal Processing and Control, 2020, 55, 101637.	3.5	65
44	Multi-DoF continuous estimation for wrist torques using stacked autoencoder. Biomedical Signal Processing and Control, 2020, 57, 101733.	3.5	23
45	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
46	Adaptive Aerial Grasping and Perching With Dual Elasticity Combined Suction Cup. IEEE Robotics and Automation Letters, 2020, 5, 4766-4773.	3.3	24
47	Subject-Specific EMG Modeling with Multiple Muscles: A Preliminary Study. , 2020, 2020, 740-743.		2
48	Visual Servoing of Micro Aerial Vehicles with the Cooperation of Ground Vehicle. , 2020, , .		4
49	Operational-space wrench and acceleration capability analysis for multi-link cable-driven robots. Science China Technological Sciences, 2020, 63, 2063-2072.	2.0	4
50	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
51	Adaptive Real-Time Identification of Motor Unit Discharges From Non-Stationary High-Density Surface Electromyographic Signals. IEEE Transactions on Biomedical Engineering, 2020, 67, 3501-3509.	2.5	51
52	Position Identification for Robust Myoelectric Control Against Electrode Shift. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 3121-3128.	2.7	13
53	Feature Fusion based Efficient Convolution Network for Real-time Table Tennis Ball Detection. , 2020, , .		2
54	Design of Fingertip Pressure Sensors for Prosthetic Hands. , 2020, , .		2

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55	Dual-durometer combination of vacuum cup for aerial grasping. , 2020, , .		0
56	A Motor Unit-specific Images Based Scheme for Continuous Estimation of Wrist Torques - A Pilot Study. , 2020, , .		0
57	Sensory Stimulation Training for BCI System Based on Somatosensory Attentional Orientation. IEEE Transactions on Biomedical Engineering, 2019, 66, 640-646.	2.5	24
58	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
59	Continuous Estimation of Grasp Kinematics with Real-Time Surface EMG Decomposition. Lecture Notes in Computer Science, 2019, , 108-119.	1.0	3
60	Estimating the single-DoF kinematics of wrist from motor unit behaviors. , 2019, , .		0
61	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
62	Relationship Between Offline and Online Metrics in Myoelectric Pattern Recognition Control Based on Target Achievement Control Test. , 2019, 2019, 6595-6598.		6
63	A Visual SLAM System with Laser Assisted Optimization. , 2019, , .		3
64	A Novel Framework Based on Position Verification for Robust Myoelectric Control Against Sensor Shift. IEEE Sensors Journal, 2019, 19, 9859-9868.	2.4	14
65	eConHand: A Wearable Brain-Computer Interface System for Stroke Rehabilitation. , 2019, , .		4
66	Continuous estimation of wrist torques with stack-autoencoder based deep neural network: A preliminary study. , 2019, , .		3
67	Electrical stimulation-induced SSSEP as an objective index for the evaluation of sensory ability. , 2019, , .		0
68	A new algorithm for blink correction adaptive to inter- and intra-subject variability. Computers in Biology and Medicine, 2019, 114, 103442.	3.9	6
69	Common spatial-spectral analysis of EMG signals for multiday and multiuser myoelectric interface. Biomedical Signal Processing and Control, 2019, 53, 101572.	3.5	24
70	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
71	Shared control of a robotic arm using non-invasive brain-computer interface and computer vision guidance. Robotics and Autonomous Systems, 2019, 115, 121-129.	3.0	59
72	Generating Spatial Semantic Representations for Indoor Global Mapping. , 2019, , .		0

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73	Estimation of Motor Unit Global Firing Rate by Maximum Power Amplitude. , 2019, 2019, 6607-6610.		0
74	A Task-Priority Coordinated Motion Planner Combined with Visual Servo for Mobile Manipulator*. , 2019, , .		5
75	Tactile Stimulation Improves Sensorimotor Rhythm-Based BCI Performance in Stroke Patients. IEEE Transactions on Biomedical Engineering, 2019, 66, 1987-1995.	2.5	32
76	Spatial Information Enhances Myoelectric Control Performance With Only Two Channels. IEEE Transactions on Industrial Informatics, 2019, 15, 1226-1233.	7.2	28
77	Prediction of finger kinematics from discharge timings of motor units: implications for intuitive control of myoelectric prostheses. Journal of Neural Engineering, 2019, 16, 026005.	1.8	41
78	Feasibility of Wrist-Worn, Real-Time Hand, and Surface Gesture Recognition via sEMG and IMU Sensing. IEEE Transactions on Industrial Informatics, 2018, 14, 3376-3385.	7.2	145
79	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
80	Decoding Covert Somatosensory Attention by a BCI System Calibrated With Tactile Sensation. IEEE Transactions on Biomedical Engineering, 2018, 65, 1689-1695.	2.5	17
81	Evaluation of Human Proprioceptive Matching Ability in Discrete Grasping Motions: Implications for the Sensory Reconstruction of Prosthetic Hand. , 2018, , .		0
82	A Novel Method for Detecting Joint Angles Based on Inertial and Magnetic Sensors. , 2018, , .		1
83	Neural Modulation By Repetitive Transcranial Magnetic Stimulation (rTMS) for BCI Enhancement in Stroke Patients. , 2018, 2018, 2272-2275.		8
84	Hybrid sEMG, NIRS and MMG Sensor System. , 2018, , .		3
85	Improving Myoelectric Pattern Recognition Robustness to Electrode Shift by Autoencoder. , 2018, 2018, 5652-5655.		14
86	A Multi-Class BCI Based on Somatosensory Imagery. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1508-1515.	2.7	21
87	Fast Recognition of BCI-Inefficient Users Using Physiological Features from EEG Signals: A Screening Study of Stroke Patients. Frontiers in Neuroscience, 2018, 12, 93.	1.4	55
88	A Feasibility Study on an Intuitive Teleoperation System Combining IMU with sEMG Sensors. Lecture Notes in Computer Science, 2018, , 465-474.	1.0	5
89	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
90	A Common Prosthetic Rehabilitation Platform Based on Modular Design. Lecture Notes in Computer Science, 2018, , 244-254.	1.0	1

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91	State Estimation for Swarm UAVs Under Data Dropout Condition. Lecture Notes in Computer Science, 2018, , 81-91.	1.0	0
92	A Pulse Condition Reproduction Apparatus for Remote Traditional Chinese Medicine. Lecture Notes in Computer Science, 2018, , 453-464.	1.0	1
93	A BCI System Based on Somatosensory Attentional Orientation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 81-90.	2.7	29
94	Cascaded Adaptation Framework for Fast Calibration of Myoelectric Control. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 254-264.	2.7	37
95	Toward an Enhanced Human-Machine Interface for Upper-Limb Prosthesis Control With Combined EMG and NIRS Signals. IEEE Transactions on Human-Machine Systems, 2017, 47, 564-575.	2.5	81
96	Mechanomyography Assisted Myoelectric Sensing for Upper-Extremity Prostheses: A Hybrid Approach. IEEE Sensors Journal, 2017, 17, 3100-3108.	2.4	64
97	Development of a decentralized multi-axis synchronous control approach for real-time networks. ISA Transactions, 2017, 68, 116-126.	3.1	16
98	A Stimulus-Independent Hybrid BCI Based on Motor Imagery and Somatosensory Attentional Orientation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1674-1682.	2.7	38
99	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
100	Towards Finger Gestures and Force Recognition Based on Wrist Electromyography and Accelerometers. Lecture Notes in Computer Science, 2017, , 373-380.	1.0	8
101	Influence of Spontaneous Rhythm on Movement-Related Cortical Potential - A Preliminary Neurofeedback Study. Lecture Notes in Computer Science, 2017, , 90-98.	1.0	1
102	Transcranial direct current stimulation versus user training on improving online myoelectric control for amputees. Journal of Neural Engineering, 2017, 14, 046019.	1.8	3
103	Towards Chinese sign language recognition using surface electromyography and accelerometers. , 2017, , .		10
104	Cortical oscillatory dynamics of tactile selective sensation - for a novel type of somatosensory Brain-computer Interface. , 2017, 2017, 1656-1659.		0
105	Arm movements effect on grasping force prediction using surface electromyography signals. , 2017, , .		1
106	Attenuating the impact of limb position on surface EMG pattern recognition using a mixed-LDA classifier. , 2017, , .		19
107	An efficient grasp planning algorithm for 3-D objects considering hand configuration. , 2017, , .		0
108	Assessment of muscle fatigue by simultaneous sEMG and NIRS: From the perspective of electrophysiology and hemodynamics. , 2017, , .		9

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109	Enhanced Motor Imagery-Based BCI Performance via Tactile Stimulation on Unilateral Hand. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 585.	1.0	32
110	Electrocorticographic Temporal Alteration Mapping: A Clinical Technique for Mapping the Motor Cortex with Movement-Related Cortical Potentials. <i>Frontiers in Neuroscience</i> , 2017, 11, 326.	1.4	4
111	Common Spatial Pattern with Polarity Check for reducing delay latency in detection of MRCP based BCI system. , 2017, , .		3
112	A Vibro-tactile Stimulation and Vibro-signature Synchronization Device for SSSEP-Based Study. <i>Lecture Notes in Computer Science</i> , 2017, , 57-68.	1.0	0
113	Towards the Analysis and Optimization of Underactuated Hands for Effective Grasp. <i>International Journal of Humanoid Robotics</i> , 2016, 13, 1650004.	0.6	6
114	A prosthetic arm based on EMG pattern recognition. , 2016, , .		19
115	Development of a real-time hand gesture recognition wristband based on sEMG and IMU sensing. , 2016, , .		14
116	Towards the Development of Fractional-Order Flight Controllers for the Quadrotor. <i>Lecture Notes in Computer Science</i> , 2016, , 63-74.	1.0	0
117	Design and Implementation of Data Communication Module for a Multi-motor Drive and Control Integrated System Based on DSP. <i>Lecture Notes in Computer Science</i> , 2016, , 75-86.	1.0	0
118	Virtual Environments for Hand Rehabilitation with Force Feedback. <i>Lecture Notes in Computer Science</i> , 2016, , 459-470.	1.0	0
119	Navigation and Control for an Unmanned Aerial Vehicle. <i>Lecture Notes in Computer Science</i> , 2016, , 373-383.	1.0	0
120	Feasibility of a Sensorimotor Rhythm Based Mobile Brain-Computer Interface. <i>Lecture Notes in Computer Science</i> , 2016, , 443-452.	1.0	0
121	Design and Development of a Multi-rotor Unmanned Aerial Vehicle System for Bridge Inspection. <i>Lecture Notes in Computer Science</i> , 2016, , 498-510.	1.0	11
122	High-performance transmission mechanism for robotic applications. <i>Mechanism and Machine Theory</i> , 2016, 105, 176-184.	2.7	6
123	A High-Flexible ACC/DEC Look-Ahead Strategy Based on Quintic BÄ©zier Feed Rate Curve. <i>Lecture Notes in Computer Science</i> , 2016, , 697-708.	1.0	0
124	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
125	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
126	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

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127	Automatic Grasp Planning Algorithm for Synergistic Underactuated Hands. Lecture Notes in Computer Science, 2016, , 431-442.	1.0	1
128	Modelling and analyzing of postural synergy based underactuated robotic hand with contact and friction constraints. , 2015, , .		0
129	Towards zero training for myoelectric control based on a wearable wireless sEMG armband. , 2015, , .		4
130	Long-term paired sensory stimulation training for improved motor imagery BCI performance via pavlovian conditioning theory. , 2015, , .		0
131	A comparison of open-loop and closed-loop adaptive calibration for pattern recognition based myoelectric control. , 2015, 2015, 1144-7.		3
132	Improving robustness against electrode shift of high density EMG for myoelectric control through common spatial patterns. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 110.	2.4	77
133	Improving Myoelectric Control for Amputees through Transcranial Direct Current Stimulation. IEEE Transactions on Biomedical Engineering, 2015, 62, 1927-1936.	2.5	31
134	Enhanced robustness of myoelectric pattern recognition to across-day variation through invariant feature extraction. , 2015, 2015, 7262-5.		1
135	Residuals of autoregressive model providing additional information for feature extraction of pattern recognition-based myoelectric control. , 2015, 2015, 7270-3.		2
136	A novel calibration and task guidance framework for motor imagery BCI via a tendon vibration induced sensation with kinesthesia illusion. Journal of Neural Engineering, 2015, 12, 016005.	1.8	38
137	User adaptation in long-term, open-loop myoelectric training: implications for EMG pattern recognition in prosthesis control. Journal of Neural Engineering, 2015, 12, 046005.	1.8	126
138	Optimal trajectory control for capturing a mobile sound source. , 2015, , .		0
139	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
140	Rate-dependent hysteresis in the EMG-force relationship: A new discovery in EMG-force relationship. , 2015, , .		3
141	Simultaneously Optimizing Spatial Spectral Features Based on Mutual Information for EEG Classification. IEEE Transactions on Biomedical Engineering, 2015, 62, 227-240.	2.5	58
142	Structure Optimization and Implementation of a Lightweight Sandwiched Quadcopter. Lecture Notes in Computer Science, 2015, , 220-229.	1.0	7
143	Design of a NURBS Interpolator with Predicted Tangent Constraints. Lecture Notes in Computer Science, 2015, , 597-608.	1.0	1
144	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

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145	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
146	Synergy-Driven Myoelectric Control for EMG-Based Prosthetic Manipulation: A Case Study. International Journal of Humanoid Robotics, 2014, 11, 1450013.	0.6	7
147	A portable multi-channel wireless NIRS device for muscle activity real-time monitoring. , 2014, 2014, 3719-22.		1
148	Mechanical implementation of postural synergies using a simple continuum mechanism. , 2014, , .		10
149	A single-trial decoding method by integrating accumulated continuous classification for motor imagery based BCI. , 2014, , .		0
150	A wireless wearable sEMG and NIRS acquisition system for an enhanced human-computer interface. , 2014, , .		10
151	Boosting training for myoelectric pattern recognition using Mixed-LDA. , 2014, 2014, 14-7.		0
152	A hybrid BCI study: Temporal optimization for EEG single-trial classification by exploring hemodynamics from the simultaneously measured NIRS data. , 2014, , .		4
153	An enhanced human-computer interface based on simultaneous sEMG and NIRS for prostheses control. , 2014, , .		6
154	Effects of contraction path and velocity on the coordination of hand muscles during a three-digit force production task. , 2014, 2014, 5864-7.		1
155	Combining Motor Imagery With Selective Sensation Toward a Hybrid-Modality BCI. IEEE Transactions on Biomedical Engineering, 2014, 61, 2304-2312.	2.5	78
156	Invariant Surface EMG Feature Against Varying Contraction Level for Myoelectric Control Based on Muscle Coordination. IEEE Journal of Biomedical and Health Informatics, 2014, 19, 1-1.	3.9	88
157	Improving myoelectric pattern recognition using invariant feature extraction. , 2014, , .		1
158	Design of a myoelectric prosthetic hand implementing postural synergy mechanically. Industrial Robot, 2014, 41, 447-455.	1.2	26
159	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
160	Continuous estimation of finger joint angles under different static wrist motions from surface EMG signals. Biomedical Signal Processing and Control, 2014, 14, 265-271.	3.5	75
161	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
162	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

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163	Quantification and solutions of arm movements effect on sEMG pattern recognition. Biomedical Signal Processing and Control, 2014, 13, 189-197.	3.5	57
164	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
165	A New Time Synchronization Method for Reducing Quantization Error Accumulation Over Real-Time Networks: Theory and Experiments. IEEE Transactions on Industrial Informatics, 2013, 9, 1659-1669.	7.2	32
166	Enhanced motor imagery based brain-computer interface via unilateral wrist vibrotactile stimulation. , 2013, , .		2
167	Design and postural synergy synthesis of a prosthetic hand for a manipulation task. , 2013, , .		3
168	A new feature extraction method based on autoregressive power spectrum for improving sEMG classification. , 2013, 2013, 5746-9.		4
169	ACF-COG interconnection conductivity inspection system using conductive area. Microelectronics Reliability, 2013, 53, 622-628.	0.9	19
170	Effect of vibrotactile feedback on an EMG-based proportional cursor control system. , 2013, 2013, 3070-3.		0
171	A linear model for simultaneously and proportionally estimating wrist kinematics from emg during mirrored bilateral movements. , 2013, 2013, 4593-6.		1
172	Preliminary study on proportional and simultaneous estimation of hand posture using surface EMG based on synergy concept. , 2013, 2013, 6199-202.		2
173	Mechanical vibrotactile stimulation effect in motor imagery based brain-computer interface. , 2013, 2013, 2772-5.		3
174	Improved discrete fourier transform based spectral feature for surface electromyogram signal classification. , 2013, 2013, 6897-900.		9
175	Selective Sensation Based Brain-Computer Interface via Mechanical Vibrotactile Stimulation. PLoS ONE, 2013, 8, e64784.	1.1	38
176	Effects of Long-Term Myoelectric Signals on Pattern Recognition. Lecture Notes in Computer Science, 2013, , 396-404.	1.0	17
177	Inverse control of a class of nonlinear systems with modified generalized Prandtl-Ishlinskii hysteresis. , 2012, , .		2
178	Design of an Anthropomorphic Prosthetic Hand towards Neural Interface Control. Lecture Notes in Computer Science, 2012, , 507-517.	1.0	4
179	Time-stamped cross-coupled control in networked CNC systems. , 2011, , .		1
180	Nonlinear analysis and parameters identification of servo mechanism with relay feedback. Assembly Automation, 2010, 30, 221-227.	1.0	8

#	ARTICLE	IF	CITATIONS
181	Nonlinear Analysis and Application of Servo Control System Based on Relay Feedback. Lecture Notes in Computer Science, 2009, , 755-764.	1.0	0
182	Reliability study of board-level lead-free interconnections under sequential thermal cycling and drop impact. Microelectronics Reliability, 2009, 49, 530-536.	0.9	50
183	Modal analysis of board-level electronic package. Microelectronic Engineering, 2008, 85, 610-620.	1.1	18
184	An Application of Real-time Operating System in High Speed and High Precision Motion Control Systems. , 2007, , .		7
185	Particle on Bump (POB) Technique for Ultra-Fine Pitch Chip on Glass (COG) Applications. , 2007, , .		2
186	A method for creating reliable and low-resistance contacts between carbon nanotubes and microelectrodes. Carbon, 2007, 45, 436-442.	5.4	46
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