

Adel Ali Al-Jumaily

List of Publications by Year in descending order

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Version: 2024-02-01

175
papers

2,777
citations

304602

22
h-index

265120

42
g-index

179
all docs

179
docs citations

179
times ranked

2603
citing authors

#	ARTICLE	IF	CITATIONS
1	Augmented Reality Game Therapy For Children With Autism Spectrum Disorder. International Journal on Smart Sensing and Intelligent Systems, 2022, 7, 519-536.	0.4	30
2	Augmented Reality Game Based Multi-Usage Rehabilitation Therapist For Stroke Patients. International Journal on Smart Sensing and Intelligent Systems, 2022, 7, 1044-1058.	0.4	17
3	Feature Extraction Using Wavelet Scattering Transform Coefficients for EMG Pattern Classification. Lecture Notes in Computer Science, 2022, , 181-189.	1.0	3
4	Human-Robot Interaction Torque Estimation Methods for a Lower Limb Rehabilitation Robotic System with Uncertainties. Applied Sciences (Switzerland), 2022, 12, 5529.	1.3	1
5	Active vibration control in human forearm model using paired piezoelectric sensor and actuator. JVC/Journal of Vibration and Control, 2021, 27, 2231-2242.	1.5	7
6	Improved myoelectric pattern recognition of finger movement using rejection-based extreme learning machine. Telkomnika (Telecommunication Computing Electronics and Control), 2021, 19, 134.	0.6	0
7	Impact of Coronavirus Disease 2019 (COVID-19) Outbreak Quarantine, Isolation, and Lockdown Policies on Mental Health and Suicide. Frontiers in Psychiatry, 2021, 12, 565190.	1.3	82
8	Infrared Thermal Imaging for Evaluation of Clubfoot After the Ponseti Casting Method—An Exploratory Study. Frontiers in Pediatrics, 2021, 9, 595506.	0.9	1
9	Augmented Reality for Autistic Children to Enhance Their Understanding of Facial Expressions. Multimodal Technologies and Interaction, 2021, 5, 48.	1.7	13
10	CHAD: Compact Hand-Assistive Device for enhancement of function in hand impairments. Robotics and Autonomous Systems, 2021, 142, 103784.	3.0	7
11	A long short-term recurrent spatial-temporal fusion for myoelectric pattern recognition. Expert Systems With Applications, 2021, 178, 114977.	4.4	14
12	Augmentation in Healthcare: Augmented Biosignal Using Deep Learning and Tensor Representation. Journal of Healthcare Engineering, 2021, 2021, 1-9.	1.1	7
13	Multiview Eye Localisation to Measure Cattle Body Temperature Based on Automated Thermal Image Processing and Computer Vision. Infrared Physics and Technology, 2021, 119, 103932.	1.3	7
14	Effects of repetitive SSVEPs on EEG complexity using multiscale inherent fuzzy entropy. Neurocomputing, 2020, 389, 198-206.	3.5	69
15	Early Diagnose of Autism Spectrum Disorder Using Machine Learning Based on Simple Upper Limb Movements. Advances in Intelligent Systems and Computing, 2020, , 491-500.	0.5	3
16	Orientation Sensitive Fuzzy C Means Based Fast Level Set Evolution for Segmentation of Histopathological Images to Detect Skin Cancer. Advances in Intelligent Systems and Computing, 2020, , 501-510.	0.5	3
17	Recurrent Fusion of Time-Domain Descriptors Improves EMG-based Hand Movement Recognition. , 2020, 2020, 657-661.		1
18	A Position Weight Matrix Feature Extraction Algorithm Improves Hand Gesture Recognition. , 2020, 2020, 5765-5768.		3

#	ARTICLE	IF	CITATIONS
19	The use of augmented reality in the diagnosis and treatment of autistic children: a review and a new system. <i>Multimedia Tools and Applications</i> , 2020, 79, 18245-18291.	2.6	15
20	Kinect-based 3D assessment for clubfoot deformity. , 2020, , .		2
21	Multi View Face Detection in Cattle Using Infrared Thermography. <i>Communications in Computer and Information Science</i> , 2020, , 223-236.	0.4	2
22	Hybridization of Local Search Optimization and Support Vector Machine Algorithms for Classification Problems Enhancement. <i>Learning and Analytics in Intelligent Systems</i> , 2020, , 209-217.	0.5	0
23	Correction to: Electrogastrogram Based Medical Applications an Overview and Processing Frame Work. <i>Advances in Intelligent Systems and Computing</i> , 2020, , C1-C1.	0.5	1
24	Performance Evaluation of SRELM on Bio-signal Pattern Recognition Using Two Electromyography Channels. <i>International Journal on Advanced Science, Engineering and Information Technology</i> , 2020, 10, 1828-1834.	0.2	1
25	A Novel Virtual Sample Generation Method to Overcome the Small Sample Size Problem in Computer Aided Medical Diagnosing. <i>Algorithms</i> , 2019, 12, 160.	1.2	14
26	Using machine learning to perform early diagnosis of Autism Spectrum Disorder based on simple upper limb movements. <i>International Journal of Hybrid Intelligent Systems</i> , 2019, 15, 195-206.	0.9	4
27	Label Self-Advised Support Vector Machine (LSA-SVM)â€™Automated Classification of Foot Drop Rehabilitation Case Study. <i>Biosensors</i> , 2019, 9, 114.	2.3	5
28	Doppler Radar-Based Non-Contact Health Monitoring for Obstructive Sleep Apnea Diagnosis: A Comprehensive Review. <i>Big Data and Cognitive Computing</i> , 2019, 3, 3.	2.9	57
29	Analytical solution for forced vibration of piezoelectrically actuated Timoshenko beam. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 1276-1284.	1.4	3
30	A Cost-effective Method for Epileptic Seizure Classification. , 2019, , .		0
31	Spatially Filtered Low-Density EMG and Time-Domain Descriptors Improves Hand Movement Recognition. , 2019, 2019, 2671-2674.		3
32	Comparison of EEG Pattern Recognition of Motor Imagery for Finger Movement Classification. , 2019, , .		10
33	A Novel Oxygen-Hemoglobin Model for Non-Contact Sleep Monitoring of Oxygen Saturation. <i>IEEE Sensors Journal</i> , 2019, 19, 12325-12332.	2.4	11
34	Automatic Temperature Measurement for Hot Spots in Face Region of Cattle using Infrared Thermography. , 2019, , .		6
35	Upper Limb Recovery Prediction After Stroke Rehabilitation Based on Regression Method. <i>Biosystems and Biorobotics</i> , 2019, , 380-384.	0.2	0
36	PSO-SVM hybrid system for melanoma detection from histo-pathological images. <i>International Journal of Electrical and Computer Engineering</i> , 2019, 9, 2941.	0.5	1

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37	A novel 3D evaluation method for assessing bone to bone relationships in clubfoot. European Review for Medical and Pharmacological Sciences, 2019, 23, 1882-1890.	0.5	7
38	Ambient assisted living technologies for older adults with cognitive and physical impairments: a review. European Review for Medical and Pharmacological Sciences, 2019, 23, 10470-10481.	0.5	28
39	Deep Learning of Facial Depth Maps for Obstructive Sleep Apnea Prediction. , 2018, , .		21
40	Optimal feature set for finger movement classification based on sEMG. , 2018, 2018, 5228-5231.		7
41	Spatio-Temporal Inertial Measurements Feature Extraction Improves Hand Movement Pattern Recognition without Electromyography. , 2018, 2018, 2108-2111.		6
42	Evaluation of feature extraction techniques and classifiers for finger movement recognition using surface electromyography signal. Medical and Biological Engineering and Computing, 2018, 56, 2259-2271.	1.6	38
43	Auto-Encoder based Deep Learning for Surface Electromyography Signal Processing. Advances in Science, Technology and Engineering Systems, 2018, 3, 94-102.	0.4	7
44	Optimized Kernel Extreme Learning Machine for Myoelectric Pattern Recognition. International Journal of Electrical and Computer Engineering, 2018, 8, 483.	0.5	0
45	Analyze the Human Movements to Help CNS to Shape the Synergy using CNMF and Pattern Recognition. Procedia Computer Science, 2017, 105, 170-176.	1.2	1
46	Estimation of Torque Based on EMG using ANFIS. Procedia Computer Science, 2017, 105, 197-202.	1.2	3
47	A Framework of Temporal-Spatial Descriptors-Based Feature Extraction for Improved Myoelectric Pattern Recognition. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1821-1831.	2.7	101
48	Evaluation of extreme learning machine for classification of individual and combined finger movements using electromyography on amputees and non-amputees. Neural Networks, 2017, 85, 51-68.	3.3	53
49	An investigation of upper limb motor task based discriminate for high risk autism. , 2017, , .		4
50	Machine learning based prediction of depression among type 2 diabetic patients. , 2017, , .		28
51	A wearable robotics assistive device: Design, technical solutions, and implementation. , 2017, , .		8
52	Semi advised learning and classification algorithm for partially labeled skin cancer data analysis. , 2017, , .		6
53	Myoelectric control systems for hand rehabilitation device: A review. , 2017, , .		13
54	Automatic eyes localization in thermal images for temperature measurement in cattle. , 2017, , .		7

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55	Automatic seagrass detection: A survey. , 2017, , .		0
56	Non-contact Doppler radar based prediction of nocturnal body orientations using deep neural network for chronic heart failure patients. , 2017, , .		8
57	Developing a Three-Dimensional (3D) Assessment Method for Clubfootâ€™A Study Protocol. <i>Frontiers in Physiology</i> , 2017, 8, 1098.	1.3	6
58	Ponseti method in the management of clubfoot under 2 years of age: A systematic review. <i>PLoS ONE</i> , 2017, 12, e0178299.	1.1	63
59	Evaluation of Randomized Variable Translation Wavelet Neural Networks. <i>Communications in Computer and Information Science</i> , 2017, , 3-12.	0.4	1
60	Self-Organizing Map based Feature Learning in Bio-Signal Processing. <i>Advances in Science, Technology and Engineering Systems</i> , 2017, 2, 505-512.	0.4	0
61	EMG signal based knee joint torque estimation. , 2016, , .		5
62	Non-contact real-time estimation of intrapulmonary pressure and tidal volume for chronic heart failure patients. , 2016, 2016, 3564-3567.		2
63	A fusion of time-domain descriptors for improved myoelectric hand control. , 2016, , .		24
64	ICA based feature learning and feature selection. , 2016, , .		2
65	Upper limb motor coordination based early diagnosis in high risk subjects for Autism. , 2016, , .		7
66	Estimation of angle based on EMG using ANFIS. , 2016, , .		4
67	Current conservative management and classification of club foot: A review. <i>Journal of Pediatric Rehabilitation Medicine</i> , 2016, 9, 257-264.	0.3	21
68	ANFIS to estimate damping coefficient from EMG to optimize the interaction force. , 2016, , .		0
69	System identification and damping coefficient estimation from EMC based on ANFIS to optimize human exoskeleton interaction. , 2016, , .		1
70	Active force control system for hand tremor suppression by different actuators. , 2016, , .		5
71	PCA indexing based feature learning and feature selection. , 2016, , .		7
72	AW-ELM-based Crouch Gait recognition after ischemic stroke. , 2016, , .		0

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73	ANFIS to estimate damping coefficient from EMG to optimize the interaction force. , 2016, , .		0
74	Semi-advised learning model for skin cancer diagnosis based on histopathological images. , 2016, 2016, 631-634.		5
75	Myoelectric feature extraction using temporal-spatial descriptors for multifunction prosthetic hand control. , 2016, 2016, 1696-1699.		10
76	Adaptive myoelectric pattern recognition for arm movement in different positions using advanced online sequential extreme learning machine. , 2016, 2016, 900-903.		2
77	Active force control system for tremor suppression in elbow joint. , 2016, , .		4
78	Early diagnosis autism based on upper limb motor coordination in high risk subjects for autism. , 2016, , .		14
79	Extreme learning machine based sEMG for drop-foot after stroke detection. , 2016, , .		9
80	Effective Physical Rehabilitation System. Advances in Medical Technologies and Clinical Practice Book Series, 2016, , 180-197.	0.3	1
81	Non-contact Dual Pulse Doppler System Based Real-time Relative Demodulation and Respiratory & Heart Rates Estimations for Chronic Heart Failure Patients. Procedia Computer Science, 2015, 76, 47-52.	1.2	5
82	Continuous prediction of shoulder joint angle in real-time. , 2015, , .		0
83	A robust myoelectric pattern recognition using online sequential extreme learning machine for finger movement classification. , 2015, 2015, 7266-9.		5
84	A novel extreme learning machine for dimensionality reduction on finger movement classification using sEMG. , 2015, , .		16
85	The estimation of Knee Joint angle based on Generalized Regression Neural Network (GRNN). , 2015, , .		7
86	Differential evolution based advised SVM for histopathological image analysis for skin cancer detection. , 2015, 2015, 781-4.		15
87	EMG Signal Based Knee Joint Angle Estimation of Flexion and Extension with Extreme Learning Machine (ELM) for Enhancement of Patient-Robotic Exoskeleton Interaction. Lecture Notes in Computer Science, 2015, , 583-590.	1.0	1
88	Non-contact dual pulse Doppler system based respiratory and heart rates estimation for CHF patients. , 2015, 2015, 4202-5.		4
89	Event-related Potentials of Consumer Preferences. Procedia Computer Science, 2015, 76, 68-73.	1.2	5
90	SA-SVM based automated diagnostic system for skin cancer. , 2015, , .		0

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91	Self-supervised learning model for skin cancer diagnosis. , 2015, , .		52
92	Adaptive Differential Evolution Based Feature Selection and Parameter Optimization for Advised SVM Classifier. Lecture Notes in Computer Science, 2015, , 401-410.	1.0	5
93	Semi Advised SVM with Adaptive Differential Evolution Based Feature Selection for Skin Cancer Diagnosis. Journal of Computer and Communications, 2015, 03, 184-190.	0.6	7
94	Adaptive Trajectory Control to Achieve Smooth Interaction Force in Robotic Rehabilitation Device. Procedia Computer Science, 2014, 42, 160-167.	1.2	6
95	Swarm-wavelet based extreme learning machine for finger movement classification on transradial amputees. , 2014, 2014, 4192-5.		5
96	A novel upper limb rehabilitation system with self-driven virtual arm illusion. , 2014, 2014, 3614-7.		6
97	The Beneficial Techniques in Preprocessing Step of Skin Cancer Detection System Comparing. Procedia Computer Science, 2014, 42, 25-31.	1.2	57
98	Comparing the Performance of Various Filters on Skin Cancer Images. Procedia Computer Science, 2014, 42, 32-37.	1.2	25
99	Novel feature extraction methodology based on histopathological images and subsequent classification by support vector machine. , 2014, , .		3
100	Patient cooperative adaptive controller for lower limb Robotic Rehabilitation Device. , 2014, , .		2
101	Augmented Reality based Illusion System with biofeedback. , 2014, , .		3
102	Automatic recognition of melanoma using Support Vector Machines: A study based on Wavelet, Curvelet and color features. , 2014, , .		10
103	Swarm-based extreme learning machine for finger movement recognition. , 2014, , .		2
104	Adaptive trajectory control based robotic rehabilitation device. , 2014, , .		1
105	Integrating soft and hard threshold selection algorithms for accurate segmentation of skin lesion. , 2014, , .		2
106	Augmented reality-based RehaBio system for shoulder rehabilitation. International Journal of Mechatronics and Automation, 2014, 4, 52.	0.1	15
107	Development of Automated Diagnostic System for Skin Cancer: Performance Analysis of Neural Network Learning Algorithms for Classification. Lecture Notes in Computer Science, 2014, , 837-844.	1.0	8
108	Adaptive Wavelet Extreme Learning Machine (AW-ELM) for Index Finger Recognition Using Two-Channel Electromyography. Lecture Notes in Computer Science, 2014, , 471-478.	1.0	5

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109	Texture Analysis Based Automated Decision Support System for Classification of Skin Cancer Using SA-SVM. Lecture Notes in Computer Science, 2014, , 101-109.	1.0	10
110	INDEX FINGER MOTION RECOGNITION USING SELF-ADVISE SUPPORT VECTOR MACHINE. International Journal on Smart Sensing and Intelligent Systems, 2014, 7, 644-657.	0.4	5
111	Scaled Conjugate Gradient based Decision Support System for Automated Diagnosis of Skin Cancer. , 2014, , .		1
112	Real Time Biosignal-Driven Illusion System for Upper Limb Rehabilitation. , 2014, , .		0
113	A Binary Level Set Method based on K-Means for Contour Tracking on Skin Cancer Images. , 2014, , .		0
114	Multi Neural Networks Investigation based Sleep Apnea Prediction. Procedia Computer Science, 2013, 24, 97-102.	1.2	16
115	Self-advising support vector machine. Knowledge-Based Systems, 2013, 52, 214-222.	4.0	24
116	Classification of Malignant Melanoma and Benign Nevi from Skin Lesions Based on Support Vector Machine. , 2013, , .		6
117	Automated segmentation of skin lesions: Modified Fuzzy C mean thresholding based level set method. , 2013, , .		12
118	Computer Aided Diagnostic Support System for Skin Cancer: A Review of Techniques and Algorithms. International Journal of Biomedical Imaging, 2013, 2013, 1-22.	3.0	238
119	Two-channel surface electromyography for individual and combined finger movements. , 2013, 2013, 4961-4.		21
120	Design and Development of a Bilateral Therapeutic Hand Device for Stroke Rehabilitation. International Journal of Advanced Robotic Systems, 2013, 10, 405.	1.3	25
121	Estimation of Upper Limb Joint Angle Using Surface EMG Signal. International Journal of Advanced Robotic Systems, 2013, 10, 369.	1.3	54
122	Fuzzy C Mean Thresholding based Level Set for Automated Segmentation of Skin Lesions. Journal of Signal and Information Processing, 2013, 04, 66-71.	0.8	30
123	Preparation and characterization of a conductive polymer/electroactive paper actuator. , 2012, , .		0
124	Shoulder rehabilitation with biofeedback simulation. , 2012, , .		7
125	Automated detecting and classifying of sleep apnea syndrome based on genetic-SVM. International Journal of Hybrid Intelligent Systems, 2012, 9, 203-210.	0.9	3
126	Active Exoskeleton Control Systems: State of the Art. Procedia Engineering, 2012, 41, 988-994.	1.2	230

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127	sEMG Based ANN for Shoulder Angle Prediction. Procedia Engineering, 2012, 41, 1009-1015.	1.2	32
128	Design and Development of a Hand Exoskeleton for Rehabilitation Following Stroke. Procedia Engineering, 2012, 41, 1028-1034.	1.2	32
129	A novel partially connected cooperative parallel PSO-SVM algorithm: Study based on sleep apnea detection. , 2012, , .		16
130	AR based upper limb rehabilitation system. , 2012, , .		18
131	Bio-driven system-based virtual reality for prosthetic and rehabilitation systems. Signal, Image and Video Processing, 2012, 6, 71-84.	1.7	4
132	Hierarchical Parallel PSO-SVM Based Subject-Independent Sleep Apnea Classification. Lecture Notes in Computer Science, 2012, , 500-507.	1.0	5
133	Signal Selection for Sleep Apnea Classification. Lecture Notes in Computer Science, 2012, , 661-671.	1.0	3
134	Genetic Fuzzy Approach based Sleep Apnea/Hypopnea Detection. International Journal of Machine Learning and Computing, 2012, , 685-688.	0.8	4
135	Segmentation of skin cancer images based on gradient vector flow (GVF) snake. , 2011, , .		13
136	The automatic identification of melanoma by wavelet and curvelet analysis: Study based on neural network classification. , 2011, , .		22
137	Review on automatic early skin cancer detection. , 2011, , .		18
138	Per node deployment based detection of controlled link establishment attack in distributed sensor networks. International Journal of Sensor Networks, 2011, 9, 192.	0.2	8
139	Feature subset selection using differential evolution and a statistical repair mechanism. Expert Systems With Applications, 2011, 38, 11515-11526.	4.4	179
140	Virtual games based self rehabilitation for home therapy system. , 2011, , .		5
141	Human computer interactive system for fast recovery based stroke rehabilitation. , 2011, , .		11
142	Rehabilitation exercise with real-time muscle simulation based EMG and AR. , 2011, , .		9
143	Automated detecting sleep apnea syndrome: A novel system based on genetic SVM. , 2011, , .		12
144	Orthogonal Fuzzy Neighborhood Discriminant Analysis for Multifunction Myoelectric Hand Control. IEEE Transactions on Biomedical Engineering, 2010, 57, 1410-1419.	2.5	91

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145	Swarm Based Fuzzy Discriminant Analysis for Multifunction Prosthesis Control. Lecture Notes in Computer Science, 2010, , 197-206.	1.0	1
146	Electromyogram (EMG) driven system based virtual reality for prosthetic and rehabilitation devices. , 2009, , .		23
147	A novel swarm based feature selection algorithm in multifunction myoelectric control. Journal of Intelligent and Fuzzy Systems, 2009, 20, 175-185.	0.8	7
148	Evolutionary fuzzy discriminant analysis feature projection technique in myoelectric control. Pattern Recognition Letters, 2009, 30, 699-707.	2.6	27
149	Automatically Early Detection of Skin Cancer: Study Based on Nueral Netwok Classification. , 2009, , .		50
150	Intelligent Pedestrian Detection System in Semi-dark Environment. , 2009, , .		1
151	Cellular automata based models of wireless sensor networks. , 2009, , .		14
152	Differential evolution based feature subset selection. , 2008, , .		37
153	Fuzzy discriminant analysis based feature projection in myoelectric control. , 2008, 2008, 5049-52.		4
154	Intelligent Artificial Ants based feature extraction from wavelet packet coefficients for biomedical signal classification. , 2008, , .		4
155	A Combined Ant Colony and Differential Evolution Feature Selection Algorithm. Lecture Notes in Computer Science, 2008, , 1-12.	1.0	43
156	Type-2 Fuzzy System Based Blood Pressure Parameters Estimation. , 2008, , .		5
157	A Hybrid Nonlinear-Discriminant Analysis Feature Projection Technique. Lecture Notes in Computer Science, 2008, , 544-550.	1.0	3
158	Blood Pressure Estimation with Considering of Stroke Volume Effect. , 2008, , 173-180.		0
159	Myoelectric Control of Prosthetic Devices for Rehabilitation. , 2008, , 965-971.		0
160	Channel and Feature Selection in Multifunction Myoelectric Control. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5182-5.	0.5	18
161	Training type-2 Fuzzy System by particle swarm optimization. , 2007, , .		12
162	General Organising Committee. , 2007, , .		0

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163	Novel feature extraction method based on fuzzy entropy and wavelet packet transform for myoelectric Control. , 2007, , .		47
164	A Novel Hybrid System for Skin Lesion Detection. , 2007, , .		25
165	Type-2 Fuzzy Classification of Blood Pressure Parameters. , 2007, , .		9
166	Swarm Intelligence based Dimensionality Reduction for Myoelectric Control. , 2007, , .		7
167	New Model to estimate Mean Blood Pressure by Heart Rate with Stroke Volume changing influence. , 2006, 2006, 1803-5.		0
168	New Model to estimate Mean Blood Pressure by Heart Rate with Stroke Volume changing influence. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
169	Wavefront Propagation and Fuzzy Based Autonomous Navigation. International Journal of Advanced Robotic Systems, 2005, 2, 10.	1.3	13
170	Multi agent system for estimation of cardiovascular parameters. , 2005, , .		1
171	Fuzzy logic based behaviors blending for intelligent reactive navigation of walking robot. , 0, , .		3
172	Behaviors blending for intelligent reactive navigation of climbing robot. , 0, , .		0
173	Probabilistic Road Maps with Obstacle Avoidance in Cluttered Dynamic Environment. , 0, , .		15
174	Multi-Agent System Concepts Theory and Application Phases. , 0, , .		2
175	Myoelectric Control of Prosthetic Devices for Rehabilitation. , 0, , 965-973.		0