Yoshihiko Nakamura

List of Publications by Year
in descending order

247 papers	6,457 citations	218381 26 h-index	114278 63 g-index
253 all docs	253 docs citations	253 times ranked	3418 citing authors

#	Article	IF	Citations
1	Humanoid Motion Control by Compliance Optimization Explicitly Considering its Positive Definiteness. IEEE Transactions on Robotics, 2022, 38, 1973-1989.	7.3	0
2	Compliance Optimization Considering Dynamics for Whole-Body Control of a Humanoid. Springer Proceedings in Advanced Robotics, 2022, , 876-889.	0.9	1
3	Transfer Learning of Deep Neural Network Human Pose Estimator by Domain-Specific Data for Video Motion Capturing. , 2022, , .		0
4	Kinematic Differences Between the Dominant and Nondominant Legs During a Single-Leg Drop Vertical Jump in Female Soccer Players. American Journal of Sports Medicine, 2022, 50, 2817-2823.	1.9	7
5	Acoustic Determination of Contact on the Exterior Surface of the Robot. , 2021, , .		2
6	Toward High Power-to-Weight Ratio Electro-hydrostatic Actuators for Robots. Springer Proceedings in Advanced Robotics, 2021, , 116-125.	0.9	4
7	Whole-Body Compliant Motion by Sensor Integration of an EHA-Driven Humanoid *Hydra*. International Journal of Humanoid Robotics, 2021, 18, 2150002.	0.6	9
8	Preferred Oil and Ceramics Options for EHA Drive Systems and Computed Torque Control of an EHA-Driven Robot Manipulator. , 2021, , .		4
9	SARS-CoV-2 is localized in cardiomyocytes: a postmortem biopsy case. International Journal of Infectious Diseases, 2021, 111, 43-46.	1.5	11
10	Visualization of Human Motion via Virtual Reality Interface and Interaction based on It. , 2021, , .		1
11	Differences in coagulopathy and massive transfusion strategy based on trauma type. American Journal of Emergency Medicine, 2020, 38, 860-863.	0.7	1
12	A data-driven approach to probabilistic impedance control for humanoid robots. Robotics and Autonomous Systems, 2020, 124, 103353.	3.0	3
13	Representation and classification of whole-body motion integrated with finger motion. Robotics and Autonomous Systems, 2020, 124, 103378.	3.0	1
14	Synergetic reconstruction from 2D pose and 3D motion for wide-space multi-person video motion capture in the wild. Image and Vision Computing, 2020, 104, 104028.	2.7	15
15	Comparative study of force control methods for bipedal walking using a force-sensitive hydraulic humanoid. Advanced Robotics, 2020, 34, 1455-1471.	1.1	1
16	Motion and Muscle Activity of Synchronized Rolling-Type Double-Leg Circles on a Pommel Horse. Proceedings (mdpi), 2020, 49, .	0.2	0
17	Development of 3-DOF wrist mechanism for electro-hydrostatically driven robot arm. Advanced Robotics, 2020, 34, 958-973.	1.1	7
18	Enhanced effect of recombinant human soluble thrombomodulin by ultrasound irradiation in acute liver failure. Scientific Reports, 2020, 10, 1742.	1.6	4

#	Article	IF	Citations
19	Experimental Study on Critical Design of Electro-Hydrostatic Actuators Small in Size and Light in Weight. Journal of Robotics and Mechatronics, 2020, 32, 911-922.	0.5	3
20	Whole-Game Motion Capturing of Team Sports: System Architecture and Integrated Calibration. , 2020, , .		0
21	Synthesis of kinematically constrained full-body motion from stochastic motion model. Autonomous Robots, 2019, 43, 1881-1894.	3.2	5
22	Resolved Viscoelasticity Control Considering Singularity for Knee-stretched Walking of a Humanoid. , 2019, , .		4
23	HRPSlam: A Benchmark for RGB-D Dynamic SLAM and Humanoid Vision. , 2019, , .		14
24	Sequential Monte Carlo controller that integrates physical consistency and motion knowledge. Autonomous Robots, 2019, 43, 1523-1536.	3.2	3
25	Editorial: Neuromechanics and Control of Physical Behavior: From Experimental and Computational Formulations to Bio-inspired Technologies. Frontiers in Computational Neuroscience, 2019, 13, 13.	1.2	17
26	Design and Development of Compact Ceramics Reinforced Pump with Low Internal Leakage for Electro-Hydrostatic Actuated Robots. Mechanisms and Machine Science, 2019, , 2439-2448.	0.3	10
27	Enhanced Seed Finding for Scan-line Grouping Based LIDAR Plane Extraction. Mechanisms and Machine Science, 2019, , 2179-2188.	0.3	0
28	Study on Stumbles of the Elderly from a Depth Perception Dependency Test. , 2019, , .		0
29	Brain-to-cervical lymph node signaling after stroke. Nature Communications, 2019, 10, 5306.	5.8	70
30	Dynamic environment reconstruction using a pitch-and-go laser scanner. Advanced Robotics, 2019, 33, 1293-1309.	1.1	2
31	Comparison of accuracy of presepsin and procalcitonin concentrations in diagnosing sepsis in patients with and without acute kidney injury. Clinica Chimica Acta, 2019, 490, 200-206.	0.5	32
32	Linking human motions and objects to language for synthesizing action sentences. Autonomous Robots, 2019, 43, 913-925.	3.2	10
33	Classification of Multi-class Daily Human Motion using Discriminative Body Parts and Sentence Descriptions. International Journal of Computer Vision, 2018, 126, 495-514.	10.9	11
34	Bilateral remote teaching and autonomous task execution with task progress feedback. Advanced Robotics, 2018, 32, 311-324.	1.1	1
35	Goreisan Prevents Brain Edema after Cerebral Ischemic Stroke by Inhibiting Aquaporin 4 Upregulation in Mice. Journal of Stroke and Cerebrovascular Diseases, 2018, 27, 758-763.	0.7	53
36	Small Size Hydraulic Pumps with Low Heat Generation for Electro Hydrostatic Actuation of Humanoid Robots. , 2018, , .		5

#	Article	IF	Citations
37	Mathematical Modeling of Human Body and Movements: On Muscle Fatigue and Recovery Based on Energy Supply Systems. , 2018, , .		0
38	Compliant Biped Locomotion of Hydra, an Electro-Hydrostatically Driven Humanoid. , 2018, , .		18
39	Neurorobotic Approach to Study Huntington Disease Based on a Mouse Neuromusculoskeletal Model. , 2018, , .		3
40	Current-pressure-position triple-loop feedback control of electro-hydrostatic actuators for humanoid robots. Advanced Robotics, 2018, 32, 1269-1284.	1.1	12
41	Dense RGB-D SLAM for Humanoid Robots in the Dynamic Humans Environment. , 2018, , .		9
42	Key design parameters of a few types of electro-hydrostatic actuators for humanoid robots. Advanced Robotics, 2018, 32, 1241-1252.	1.1	15
43	Video Motion Capture from the Part Confidence Maps of Multi-Camera Images by Spatiotemporal Filtering Using the Human Skeletal Model. , 2018, , .		25
44	Multi-class grasping classifiers using EEG data and a common spatial pattern filter. Advanced Robotics, 2017, 31, 468-481.	1.1	1
45	Generation of action description from classification of motion and object. Robotics and Autonomous Systems, 2017, 91, 247-257.	3.0	4
46	Planning of goal-oriented motion from stochastic motion primitives and optimal controlling of joint torques in whole-body. Robotics and Autonomous Systems, 2017, 91, 226-233.	3.0	4
47	Mechanism and Control of Whole-Body Electro-Hydrostatic Actuator Driven Humanoid Robot Hydra. Springer Proceedings in Advanced Robotics, 2017, , 656-665.	0.9	23
48	Supervoxel Plane Segmentation and Multi-Contact Motion Generation for Humanoid Stair Climbing. International Journal of Humanoid Robotics, 2017, 14, 1650022.	0.6	7
49	Completeness of randomized kinodynamic planners with state-based steering. Robotics and Autonomous Systems, 2017, 89, 85-94.	3.0	6
50	ZMP Support Areas for Multicontact Mobility Under Frictional Constraints. IEEE Transactions on Robotics, 2017, 33, 67-80.	7.3	82
51	Adsorption of Nafamostat Mesilate on AN69ST Membranes: A Single‐Center Retrospective and In Vitro Study. Therapeutic Apheresis and Dialysis, 2017, 21, 620-627.	0.4	9
52	Admissible velocity propagation: Beyond quasi-static path planning for high-dimensional robots. International Journal of Robotics Research, 2017, 36, 44-67.	5.8	37
53	Computational Human Model as Robot Technology. Springer Tracts in Advanced Robotics, 2017, , 541-567.	0.3	0
54	Incorrect label detection using convolutional autoencoder in labeling task of optical motion capture data. , 2017, , .		0

#	Article	IF	Citations
55	Adaptive Edge Features Estimation for Humanoid Robot Visual Perception. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2016, , 171-177.	0.3	1
56	Enhancement of mechanical strength, computational power, and heat management for fieldwork humanoid robots. , 2016, , .		10
57	Modeling and Identification of a Realistic Spiking Neural Network and Musculoskeletal Model of the Human Arm, and an Application to the Stretch Reflex. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 591-602.	2.7	34
58	Generating action descriptions from statistically integrated representations of human motions and sentences. Neural Networks, 2016, 80, 1-8.	3.3	8
59	Action recognition from only somatosensory information using spectral learning in a hidden Markov model. Robotics and Autonomous Systems, 2016, 78, 29-35.	3.0	5
60	Incremental statistical learning for integrating motion primitives and language in humanoid robots. Autonomous Robots, 2016, 40, 657-667.	3.2	0
61	Spatio-temporal structure of human motion primitives and its application to motion prediction. Robotics and Autonomous Systems, 2016, 75, 288-296.	3.0	4
62	Real-time Unsupervised Segmentation of human whole-body motion and its application to humanoid robot acquisition of motion symbols. Robotics and Autonomous Systems, 2016, 75, 260-272.	3.0	21
63	Spatial adaption of robot trajectories based on laplacian trajectory editing. Autonomous Robots, 2016, 40, 159-173.	3.2	9
64	Motion Recognition Employing Multiple Kernel Learning of Fisher Vectors Using Local Skeleton Features. , 2015, , .		7
65	Online deformation of optimal trajectories for constrained nonprehensile manipulation. , 2015, , .		8
66	Stability of surface contacts for humanoid robots: Closed-form formulae of the Contact Wrench Cone for rectangular support areas. , 2015, , .		65
67	Symbolically structured database for human whole body motions based on association between motion symbols and motion words. Robotics and Autonomous Systems, 2015, 66, 75-85.	3.0	12
68	Correlated space formation for human whole-body motion primitives and descriptive word labels. Robotics and Autonomous Systems, 2015, 66, 35-43.	3.0	5
69	A Hybrid System Framework for Unified Impedance and Admittance Control. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 78, 359-375.	2.0	84
70	Construction of a space of motion labels from their mapping to full-body motion symbols. Advanced Robotics, 2015, 29, 115-126.	1.1	8
71	Gesture recognition using hybrid generative-discriminative approach with Fisher Vector. , 2015, , .		8
72	Using a human action database to recognize actions in monocular image sequences: recovering human whole body configurations. Advanced Robotics, 2015, 29, 771-784.	1.1	5

#	Article	IF	Citations
73	Recursive process of motion recognition and generation for action-based interaction. Advanced Robotics, 2015, 29, 287-299.	1.1	2
74	Action database for categorizing and inferring human poses from video sequences. Robotics and Autonomous Systems, 2015, 70, 116-125.	3.0	8
75	A New Trajectory Deformation Algorithm Based on Affine Transformations. IEEE Transactions on Robotics, 2015, 31, 1054-1063.	7.3	26
76	Multi-modal gesture recognition using integrated model of motion, audio and video. Chinese Journal of Mechanical Engineering (English Edition), 2015, 28, 657-665.	1.9	7
77	Statistical mutual conversion between whole body motion primitives and linguistic sentences for human motions. International Journal of Robotics Research, 2015, 34, 1314-1328.	5.8	38
78	Task Parameterization Using Continuous Constraints Extracted From Human Demonstrations. IEEE Transactions on Robotics, 2015, 31, 1458-1471.	7.3	48
79	Multi-modal Gesture Recognition Using Integrated Model of Motion, Audio and Video. Transactions of the Society of Instrument and Control Engineers, 2015, 51, 390-399.	0.1	0
80	A robot hand driven by hydraulic cluster actuators. , 2014, , .		9
81	Low-friction tendon-driven robot hand with carpal tunnel mechanism in the palm by optimal 3D allocation of pulleys. , 2014, , .		17
82	Development of high-power and backdrivable linear electro-hydrostatic actuator. , 2014, , .		21
83	Musculoskeletal modeling and physiological validation. , 2014, , .		6
84	Sampling-based trajectory imitation in constrained environments using Laplacian-RRT. , 2014, , .		2
85	Full body motion adaption based on task-space distance meshes. , 2014, , .		3
86	Completeness of randomized kinodynamic planners with state-based steering. , 2014, , .		2
87	Simultaneous global inverse kinematics and geometric parameter identification of human skeletal model from motion capture data. Mechanism and Machine Theory, 2014, 74, 274-284.	2.7	21
88	Identifiability and identification of inertial parameters using the underactuated base-link dynamics for legged multibody systems. International Journal of Robotics Research, 2014, 33, 446-468.	5.8	87
89	Motion recognition and recovery from occluded monocular observations. Robotics and Autonomous Systems, 2014, 62, 818-832.	3.0	10
90	Human Musculoskeletal Modeling and Its Validation and Applications. Journal of the Robotics Society of Japan, 2014, 32, 870-873.	0.0	0

#	Article	IF	Citations
91	Motion synthesis from stochastically encoded motion primitives for anthropomorphic robotic arm. , 2014, , .		1
92	Motion-Language Association Model for Human-Robot Communication. Springer Tracts in Advanced Robotics, 2014, , 17-30.	0.3	2
93	Biomechanical modeling of abdominal muscle system considering tendinous intersection and abdominal cavity's compressibility. , 2013, , .		0
94	Modeling and identification of the human arm stretch reflex using a realistic spiking neural network and musculoskeletal model. , 2013, , .		6
95	Generating sentence from motion by using large-scale and high-order N-grams. , 2013, , .		4
96	Design of an ankle-knee joint system of a humanoid robot with a linear electro-hydrostatic actuator driven parallel ankle mechanism and redundant biarticular actuators. , 2013, , .		7
97	Locally weighted least squares policy iteration for model-free learning in uncertain environments. , 2013, , .		1
98	Cr-N alloy thin-film based torque sensors and joint torque servo systems for compliant robot control. , 2013, , .		48
99	Reactive stepping strategies for bipedal walking based on neutral point and boundary condition optimization. , 2013, , .		8
100	Evaluations on contribution of backdrivability and force measurement performance on force sensitivity of actuators. , 2013, , .		17
101	Language Space from Whole Body Motions and Its Application to Motion Recognition. Transactions of the Japanese Society for Artificial Intelligence, 2013, 28, 361-369.	0.1	0
102	Design of Motion Database with Language by Using Stochastic Correlation. IEEJ Transactions on Electronics, Information and Systems, 2013, 133, 1680-1686.	0.1	0
103	ANTHROPOMORPHIC BIOLOGICAL EQUIPMENT. , 2013, , .		0
104	On the structural identifiability of joint parameters from motion capture data. , 2012, , .		2
105	Fast inverse kinematics algorithm for large DOF system with decomposed gradient computation based on recursive formulation of equilibrium. , 2012, , .		21
106	On using methods from robotics to study human task dependent balance during whole-body pointing and drawing movements. , 2012, , .		1
107	Viscous pump for highly backdrivable Electro-Hydrostatic Actuator. , 2012, , .		1
108	Analytical real-time pattern generation for trajectory modification and footstep replanning of humanoid robots. , 2012, , .		6

#	Article	IF	Citations
109	Bigram-based natural language model and statistical motion symbol model for scalable language of humanoid robots. , 2012, , .		14
110	Balancing anatomy and function in a musculoskeletal model of hands. , 2012, , .		0
111	Incremental learning of full body motion primitives and their sequencing through human motion observation. International Journal of Robotics Research, 2012, 31, 330-345.	5.8	155
112	Time-optimal Path Parameterization for critically dynamic motions of humanoid robots. , 2012, , .		19
113	Regularity properties and deformation of wheeled robots trajectories. , 2012, , .		2
114	Pressure Feedback Control Based on Singular Perturbation Method of an Electro-Hydrostatic Actuator for an Exoskeletal Power-Assist System. Journal of Robotics and Mechatronics, 2012, 24, 354-362.	0.5	6
115	Walking motion generation of humanoid robots: Connection of orbital energy trajectories via minimal energy control. , 2011, , .		8
116	Prediction of human behaviors in the future through symbolic inference. , 2011, , .		8
117	Screw pump for Electro-Hydrostatic Actuator that enhances backdrivability. , 2011, , .		2
118	Physical human robot interaction in imitation learning. , 2011, , .		8
119	Human motion database with a binary tree and node transition graphs. Autonomous Robots, 2011, 30, 87-98.	3.2	20
120	Real-time implementation of physically consistent identification of human body segments. , 2011, , .		31
121	Muscle strength and Mass Distribution Identification toward subject-specific musculoskeletal modeling. , 2011, , .		6
122	Motion data retrieval based on statistic correlation between motion symbol space and language. , 2011, , .		3
123	Measurement crosstalk elimination of torque encoder using selectively compliant suspension. , 2011, , .		8
124	Inverse kinematics based on high-order moments of feature points and their Jacobian matrices. , 2011, , .		2
125	Crystal Ball: Prediction of Human Behaviors in the Future through Symbolic Inference. Journal of the Robotics Society of Japan, 2011, 29, 745-751.	0.0	0
126	Switching Feedback Controllers Based on the Maximal CPI Sets for Stabilization of Humanoid Robots. Journal of the Robotics Society of Japan, 2011, 29, 384-394.	0.0	0

#	Article	IF	Citations
127	Symbol Acquisition from Motion Patterns and Their Sparce Coding by an Associative Memory Model with Self-organizing Nonmonotonicity. Journal of the Robotics Society of Japan, 2011, 29, 801-810.	0.0	0
128	Musculoskeletal-see-through mirror: Computational modeling and algorithm for whole-body muscle activity visualization in real time. Progress in Biophysics and Molecular Biology, 2010, 103, 310-317.	1.4	59
129	Retrieval and Generation of Human Motions Based on Associative Model between Motion Symbols and Motion Labels. Journal of the Robotics Society of Japan, 2010, 28, 723-734.	0.0	4
130	Mimesis Model from Partial Observations for a Humanoid Robot. International Journal of Robotics Research, 2010, 29, 60-80.	5.8	29
131	Mimetic Communication Model with Compliant Physical Contact in Human—Humanoid Interaction. International Journal of Robotics Research, 2010, 29, 1684-1704.	5.8	71
132	Associative processes between behavioral symbols and a large scale language model. , 2010, , .		5
133	High-fidelity joint drive system by torque feedback control using high precision linear encoder. , 2010, , .		41
134	Switching control and quick stepping motion generation based on the maximal CPI sets for falling avoidance of humanoid robots. , 2010, , .		14
135	Effects of nerve signal transmission delay in somatosensory reflex modeling based on inverse dynamics and optimization. , 2010, , .		7
136	What do you expect from a robot that tells your future? The crystal ball. , 2010, , .		5
137	Incremental learning of human behaviors using hierarchical hidden Markov models. , 2010, , .		17
138	Backdrivability analysis of Electro-Hydrostatic Actuator and series dissipative actuation model. , 2010, , .		34
139	Identification of standard inertial parameters for large-DOF robots considering physical consistency. , 2010, , .		14
140	Electro-hydrostatic actuators with Series Dissipative property and their application to power assist devices. , 2010, , .		11
141	Organization of behavioral knowledge from extraction of temporal-spatial features of human whole body motions. , 2010, , .		2
142	Unified Impedance and Admittance Control. , 2010, , .		189
143	Incremental Learning of Full Body Motion Primitives. Studies in Computational Intelligence, 2010, , 383-406.	0.7	6
144	Identification of flying humanoids and humans. , 2010, , .		3

#	Article	IF	Citations
145	Towards Lifelong Learning and Organization of Whole Body Motion Patterns. Springer Tracts in Advanced Robotics, 2010, , 87-97.	0.3	5
146	Robot Kinematics and Dynamics for Modeling the Human Body. Springer Tracts in Advanced Robotics, 2010, , 49-60.	0.3	8
147	Theory of Communication between Human and Humanoid Robot based on Embodied Symbol Model. Journal of the Robotics Society of Japan, 2010, 28, 735-745.	0.0	0
148	Realtime identification software for human whole-body segment parameters using motion capture and its visualization interface. , 2009, , .		4
149	Optimal estimation of human body segments dynamics using realtime visual feedback. , 2009, , .		9
150	Real-time identification and visualization of human segment parameters. , 2009, 2009, 3983-6.		26
151	Monitoring the segment parameters during long term physical training from motion capture data. , 2009, 2009, 5247-50.		4
152	Incremental learning of integrated semiotics based on linguistic and behavioral symbols. , 2009, , .		5
153	Characterization of motor skill based on musculoskeletal model. , 2009, 2009, 6542-5.		5
154	Base force/torque sensing for position based Cartesian impedance control. , 2009, , .		18
155	Computationally fast estimation of muscle tension for realtime Bio-feedback. , 2009, 2009, 6546-9.		8
156	Mimetic communication with impedance control for physical human-robot interaction. , 2009, , .		5
157	Statistically integrated semiotics that enables mutual inference between linguistic and behavioral symbols for humanoid robots. , 2009, , .		24
158	Online acquisition and visualization of motion primitives for humanoid robots. , 2009, , .		13
159	Associating and reshaping of whole body motions for object manipulation. , 2009, , .		6
160	Comparative study of representations for segmentation of whole body human motion data. , 2009, , .		4
161	Incremental Learning and Memory Consolidation of Whole Body Human Motion Primitives. Adaptive Behavior, 2009, 17, 484-507.	1.1	6
162	Comparative Study on Serial and Parallel Forward Dynamics Algorithms for Kinematic Chains*. International Journal of Robotics Research, 2009, 28, 622-629.	5.8	27

#	Article	IF	Citations
163	Identification of Human Limb Viscoelasticity using Robotics Methods to Support the Diagnosis of Neuromuscular Diseases. International Journal of Robotics Research, 2009, 28, 1322-1333.	5.8	20
164	Online Segmentation and Clustering From Continuous Observation of Whole Body Motions. IEEE Transactions on Robotics, 2009, 25, 1158-1166.	7.3	97
165	Development of backdrivable hydraulic joint mechanism for knee joint of humanoid robots. , 2009, , .		50
166	Whole body motion primitive segmentation from monocular video. , 2009, , .		6
167	Detecting changes in motion characteristics during sports training. , 2009, 2009, 4011-4.		9
168	Anthropomorphic robot hand with hydrostatic cluster actuator and detachable passive wire mechanism. , 2009, , .		8
169	Boundary Condition Relaxation Method for Stepwise Pedipulation Planning of Biped Robots. IEEE Transactions on Robotics, 2009, 25, 658-669.	7.3	52
170	Identification of Human Mass Properties From Motion. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 988-993.	0.4	8
171	Symbolic Proof of Inertia-Parameter Identifiability of Legged Mechanisms from Unactuated Base-Link Dynamics. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 693-698.	0.4	7
172	Kinetic chain of overarm throwing in terms of joint rotations revealed by induced acceleration analysis. Journal of Biomechanics, 2008, 41, 2874-2883.	0.9	146
173	Hardware design of high performance miniature anthropomorphic robots. Robotics and Autonomous Systems, 2008, 56, 82-94.	3.0	52
174	Special issue on robotics and neuroscience. Neural Networks, 2008, 21, 551-552.	3.3	3
175	Incremental Learning, Clustering and Hierarchy Formation of Whole Body Motion Patterns using Adaptive Hidden Markov Chains. International Journal of Robotics Research, 2008, 27, 761-784.	5.8	176
176	Human and humanoid identification from base-link dynamics. , 2008, , .		2
177	Dynamics simulation of humanoid robots with position-controlled joints and closed kinematic chains. , 2008, , .		1
178	Hybrid image stabilization for in vivo microscopic imaging. , 2008, , .		0
179	Integrating whole body motion primitives and natural language for humanoid robots. , 2008, , .		18
180	Motion capture based human motion recognition and imitation by direct marker control. , 2008, , .		84

#	Article	IF	Citations
181	Image Stabilization for <i>In Vivo</i> Microscopy by High-Speed Visual Feedback Control. , 2008, 24, 45-54.		42
182	Incremental learning of full body motion primitives for humanoid robots. , 2008, , .		26
183	Employing wave variables for coordinated control of robots with distributed control architecture. , 2008, , .		8
184	In vivo microscope image stabilization through 3-D motion compensation using a contact-type sensor. , 2008, , .		5
185	Resolving the problem of non-integrability of nullspace velocities for compliance control of redundant manipulators by using semi-definite Lyapunov functions. , 2008, , .		35
186	Motion capture based identification of the human body inertial parameters. , 2008, 2008, 4575-8.		40
187	Scaffolding on-line segmentation of full body human motion patterns. , 2008, , .		31
188	Combining automated on-line segmentation and incremental clustering for whole body motions. , 2008, , .		17
189	Association of whole body motion from tool knowledge for humanoid robots. , 2008, , .		6
190	Modeling and identification of human neuromusculoskeletal network based on biomechanical property of muscle. , 2008, 2008, 3706-9.		15
191	Missing motion data recovery using factorial hidden Markov models. , 2008, , .		2
192	Recognition of human driving behaviors based on stochastic symbolization of time series signal. , 2008, , .		53
193	Identification of humanoid robots dynamics using floating-base motion dynamics. , 2008, , .		24
194	2P1-F09 Inertial Parameters Identifiability of Humanoid Robot Based on the Baselink Equation of Motion. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2008, 2008, _2P1-F09_1-_2P1-F09_4.	0.0	3
195	Interactive topology formation of linguistic space and motion space. , 2007, , .		7
196	Modeling and Identifying the Somatic Reflex Network of the Human Neuromuscular System. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2717-21.	0.5	9
197	Mimesis Scheme using a Monocular Vision System on a Humanoid Robot. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	15
198	Capture Database through Symbolization, Recognition and Generation of Motion Patterns. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	30

#	Article	IF	Citations
199	Motion capturing from monocular vision by statistical inference based on motion database: Vector field approach. , 2007, , .		3
200	Estimating viscoelastic properties of human limb joints based on motion capture and robotic Identification Technologies. , 2007, , .		4
201	Representability of human motions by factorial hidden Markov models. , 2007, , .		24
202	Backdrivable miniature hydrostatic transmission for actuation of anthropomorphic robot hands. , 2007, , .		10
203	Enhancement of Boundary Condition Relaxation Method for 3D Hopping Motion Planning of Biped Robots. , 2007, , .		18
204	A Painless and Constraint-free Method to Estimate Viscoelastic Passive Dynamics of Limbs' Joints to Support Diagnosis of Neuromuscular Diseases. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5362-5.	0.5	3
205	Toe joint mechanism using parallel four-bar linkage enabling humanlike multiple support at toe pad and toe tip. , 2007, , .		18
206	Incremental on-line hierarchical clustering of whole body motion patterns. , 2007, , .		23
207	Mimetic Communication Theory for Humanoid Robots Interacting with Humans. , 2007, , 128-139.		2
208	Symbolic Memory of Motion Patterns by an Associative Memory Dynamics with Self-organizing Nonmonotonicity. Lecture Notes in Computer Science, 2007, , 203-213.	1.0	3
209	Parallel O(log N) Algorithm for Dynamics Simulation of Humanoid Robots. , 2006, , .		16
210	Gravity Compensation on Humanoid Robot Control with Robust Joint Servo and Non-integrated Rate-gyroscope. , 2006, , .		7
211	Segmentation, Memorization, Recognition and Abstraction of Humanoid Motions Based on Correlations and Associative Memory. , 2006, , .		18
212	Humanoid Robot's Autonomous Acquisition of Proto-Symbols through Motion Segmentation. , 2006, , .		51
213	Intraoperative 3D visualization for surgical field deformation with geometric pattern projection. Systems and Computers in Japan, 2006, 37, 45-54.	0.2	0
214	Laser-scan endoscope system for intraoperative geometry acquisition and surgical robot safety management. Medical Image Analysis, 2006, 10, 509-519.	7.0	61
215	Macroscopic Modeling and Identification of the Human Neuromuscular Network. , 2006, 2006, 99-105.		13
216	Hierarchical Concept Formation in Associative Memory Models and its Application to Memory of Motions for Humanoid Robots. , 2006, , .		2

#	Article	IF	Citations
217	Stochastic Model of Imitating a New Observed Motion Based on the Acquired Motion Primitives. , 2006, , .		19
218	Somatosensory computation for man-machine interface from motion-capture data and musculoskeletal human model. , 2005, 21, 58-66.		168
219	Motion Emergence of Humanoid Robots by Attractor Design of a Nonlinear Dynamics. Transactions of the Society of Instrument and Control Engineers, 2005, 41, 533-540.	0.1	2
220	Laser-Pointing Endoscope System for Intraoperative 3D Geometric Registration. Journal of the Robotics Society of Japan, 2003, 21, 302-308.	0.0	2
221	Motion-Cancelling Robot System for Minimally Invasive Cardiac Surgery. Journal of the Robotics Society of Japan, 2003, 21, 451-459.	0.0	6
222	Passive Safety Enhancement in Surgical Robot Navigation.. Journal of the Robotics Society of Japan, 2003, 21, 178-184.	0.0	1
223	Small Occupancy Robotic Mechanisms for Endoscopic Surgery. Lecture Notes in Computer Science, 2002, , 75-82.	1.0	33
224	Humanoid robot simulator for the METI HRP Project. Robotics and Autonomous Systems, 2001, 37, 101-114.	3.0	11
225	Microgravity Rover using Electro-magnetic Actuation.. Journal of the Robotics Society of Japan, 2001, 19, 485-491.	0.0	5
226	Title is missing!. Journal of the Robotics Society of Japan, 2001, 19, 818-821.	0.0	1
227	Optical Drive of SMA Active Forceps for Minimally Invasive Surgery.. Journal of the Robotics Society of Japan, 1999, 17, 439-448.	0.0	5
228	Design of Steering Mechanism and Control of Nonholonomic Trailer Systems.. Journal of the Robotics Society of Japan, 1999, 17, 839-847.	0.0	15
229	Design of the Chained Form Manipulator.. Journal of the Robotics Society of Japan, 1999, 17, 61-67.	0.0	4
230	A Space Robot with the Center-of-Mass Invariance.. Journal of the Robotics Society of Japan, 1998, 16, 258-264.	0.0	0
231	The Integration Theory of Reactive Behaviors and Its Application to Reactive Grasp by a Multi-Fingered Hand.. Journal of the Robotics Society of Japan, 1997, 15, 448-459.	0.0	10
232	Computation of Marginal External Force Space of Power Grasp Using Polyhedral Convex Set Theory.. Journal of the Robotics Society of Japan, 1997, 15, 728-735.	0.0	5
233	The Chaotic Mobile Robot.. Journal of the Robotics Society of Japan, 1997, 15, 918-926.	0.0	3
234	Chaos and Robots. Nonholonomy and Chaos.. Journal of the Robotics Society of Japan, 1997, 15, 1122-1125.	0.0	0

#	Article	IF	Citations
235	Chaotic Behavior and Nonlinear Control of a Two-joint Planer Arm with a Free Joint. Control on Nonholonomic Mechanisms with Drift.. Journal of the Robotics Society of Japan, 1996, 14, 602-611.	0.0	6
236	Experimental Research of a Nonholonomic Manipulator.. Journal of the Robotics Society of Japan, 1996, 14, 694-702.	0.0	0
237	Spiral Motion of Nonholonomic Space Robots.. Journal of the Robotics Society of Japan, 1995, 13, 1020-1029.	0.0	2
238	Theoretical Design and Nonlinear Control of a Nonholonomic Manipulator.. Journal of the Robotics Society of Japan, 1995, 13, 674-682.	0.0	0
239	Non-holonomic Robot Systems. Part 5. Motion Control under Dynamical Non-holonomic Constraints.. Journal of the Robotics Society of Japan, 1994, 12, 231-239.	0.0	3
240	Dynamics and Stability in Coordination of Multiple Robotic Mechanisms. International Journal of Robotics Research, 1989, 8, 44-61.	5.8	303
241	Task-Priority Based Redundancy Control of Robot Manipulators. International Journal of Robotics Research, 1987, 6, 3-15.	5.8	859
242	Inverse Kinematic Solutions With Singularity Robustness for Robot Manipulator Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1986, 108, 163-171.	0.9	907
243	In-vivo estimation of the human elbow joint dynamics during passive movements based on the musculo-skeletal kinematics computation. , 0, , .		10
244	Stable penalty-based model of frictional contacts. , 0, , .		27
245	Balanced micro/macro contact model for forward dynamics of rigid multibody. , 0, , .		3
246	Primitive communication based on motion recognition and generation with hierarchical mimesis model. , 0, , .		29
247	Leveraging Cone Double Description for Multi-contact Stability of Humanoids with Applications to Statics and Dynamics. , 0, , .		62