Hiroshi Kaminaga

List of Publications by Year
in descending order

32 papers	505 citations	1307594 7 h-index	1474206 9 g-index
32 all docs	32 docs citations	32 times ranked	330 citing authors

#	Article	IF	Citations
1	Development of 3-DOF wrist mechanism for electro-hydrostatically driven robot arm. Advanced Robotics, 2020, 34, 958-973.	1.8	7
2	Toward Industrialization of Humanoid Robots: Autonomous Plasterboard Installation to Improve Safety and Efficiency. IEEE Robotics and Automation Magazine, 2019, 26, 20-29.	2.0	7
3	Humanoid Robot HRP-5P: An Electrically Actuated Humanoid Robot With High-Power and Wide-Range Joints. IEEE Robotics and Automation Letters, 2019, 4, 1431-1438.	5.1	100
4	Wire Driven Multi-fingered Hand. , 2019, , 457-479.		0
5	Redundant Strain Measurement of Link Structures for Improved Stability of Light Weight Torque Controlled Robots. , 2018, , .		0
6	Current-pressure-position triple-loop feedback control of electro-hydrostatic actuators for humanoid robots. Advanced Robotics, 2018, 32, 1269-1284.	1.8	12
7	Key design parameters of a few types of electro-hydrostatic actuators for humanoid robots. Advanced Robotics, 2018, 32, 1241-1252.	1.8	15
8	Perception Based Locomotion System for a Humanoid Robot with Adaptive Footstep Compensation under Task Constraints. , 2018, , .		8
9	Control of Humanoid Robots and Actuators. Journal of the Robotics Society of Japan, 2018, 36, 128-133.	0.1	0
10	Mechanism and Control of Whole-Body Electro-Hydrostatic Actuator Driven Humanoid Robot Hydra. Springer Proceedings in Advanced Robotics, 2017, , 656-665.	1.3	23
11	Wire Driven Multi-fingered Hand. , 2017, , 1-23.		1
12	Enhancement of mechanical strength, computational power, and heat management for fieldwork humanoid robots. , 2016, , .		10
13	A robot hand driven by hydraulic cluster actuators. , 2014, , .		9
14	Low-friction tendon-driven robot hand with carpal tunnel mechanism in the palm by optimal 3D allocation of pulleys. , 2014, , .		17
15	Development of high-power and backdrivable linear electro-hydrostatic actuator. , 2014, , .		21
16	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
17	Cr-N alloy thin-film based torque sensors and joint torque servo systems for compliant robot control. , 2013, , .		48
18	Evaluations on contribution of backdrivability and force measurement performance on force sensitivity of actuators. , 2013, , .		17

#	Article	IF	Citations
19	Viscous pump for highly backdrivable Electro-Hydrostatic Actuator. , 2012, , .		1
20	Kinematic optimization and online adaptation of swing foot trajectory for biped locomotion. , 2012, , .		3
21	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.	1.0	6
22	Screw pump for Electro-Hydrostatic Actuator that enhances backdrivability. , 2011, , .		2
23	Measurement crosstalk elimination of torque encoder using selectively compliant suspension. , 2011, , .		8
24	High-fidelity joint drive system by torque feedback control using high precision linear encoder. , 2010, , .		41
25	Backdrivability analysis of Electro-Hydrostatic Actuator and series dissipative actuation model. , 2010, , .		34
26	Electro-hydrostatic actuators with Series Dissipative property and their application to power assist devices. , 2010, , .		11
27	Development of backdrivable hydraulic joint mechanism for knee joint of humanoid robots. , 2009, , .		50
28	Anthropomorphic robot hand with hydrostatic cluster actuator and detachable passive wire mechanism. , 2009, , .		8
29	A method of single camera robocup humanoid robot localization using cooperation with walking control. , 2008, , .		6
30	Backdrivable miniature hydrostatic transmission for actuation of anthropomorphic robot hands. , 2007, , .		10
31	One-hand drive-type power-assisted wheelchair with a direction control device using pneumatic pressure. Advanced Robotics, 2002, 16, 773-784.	1.8	10
32	Robust Nonlinear Control of Parametric Uncertain Systems With Unknown Friction and Its Application to a Pneumatic Control Valve. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2000, 122, 257-262.	1.6	13