

Gen Endo

List of Publications by Year in descending order

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109
papers

1,246
citations

643344

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109
all docs

109
docs citations

109
times ranked

945
citing authors

#	ARTICLE	IF	CITATIONS
1	Giraffe Neck Robot: First Step Toward a Powerful and Flexible Robot Prototyping Based on Giraffe Anatomy. IEEE Robotics and Automation Letters, 2022, 7, 3539-3546.	3.3	13
2	Experimental comparison of antagonistic hydraulic muscle actuation under single/dual and zero/overlapped servovalve configurations. Mechatronics, 2022, 83, 102737.	2.0	2
3	Soft Tensegrity Robot Driven by Thin Artificial Muscles for the Exploration of Unknown Spatial Configurations. IEEE Robotics and Automation Letters, 2022, 7, 5349-5356.	3.3	21
4	Development of High-Durability Flexible Fabrics Using High-Strength Synthetic Fibers and its Application to Soft Robots. Journal of Robotics and Mechatronics, 2022, 34, 266-269.	0.5	2
5	Design and Fabrication of 3D Papercraft IPMC Robots. , 2022, , .		1
6	Alternating pressure control system for hydraulic robots. Mechatronics, 2022, 85, 102822.	2.0	8
7	Super Long-reach Articulated Arm. Journal of the Robotics Society of Japan, 2021, 39, 517-522.	0.0	0
8	Toward mission-dependent long robotic arm enhancement: design method of flying watch attachment allocation based on thrust drivability. ROBOMECH Journal, 2021, 8, .	0.9	3
9	Au/Pt Double-Layer Electrodes and Expanding Internal Chamber for Improving Air-Hose-Free Thin McKibben Muscles. , 2021, , .		1
10	Shape Recognition of a Tensegrity With Soft Sensor Threads and Artificial Muscles Using a Recurrent Neural Network. IEEE Robotics and Automation Letters, 2021, 6, 6228-6234.	3.3	13
11	Tension Control Method Utilizing Antagonistic Tension to Enlarge the Workspace of Coupled Tendon-Driven Articulated Manipulator. IEEE Robotics and Automation Letters, 2021, 6, 6647-6653.	3.3	4
12	Self-excitation pneumatic soft actuator inspired by vocal cords. Sensors and Actuators A: Physical, 2021, 331, 112816.	2.0	7
13	A Wire-driven Robot using Synthetic Fiber Ropes. Journal of the Robotics Society of Japan, 2021, 39, 795-798.	0.0	0
14	Recurrent Braiding of Thin McKibben Muscles to Overcome Their Limitation of Contraction. Soft Robotics, 2020, 7, 251-258.	4.6	19
15	Development of Hiryu-II: A Long-Reach Articulated Modular Manipulator Driven by Thrusters. IEEE Robotics and Automation Letters, 2020, 5, 4963-4969.	3.3	6
16	Design of knee support device based on four-bar linkage and hydraulic artificial muscle. ROBOMECH Journal, 2020, 7, .	0.9	12
17	A Wearable Ankle Exercise Device for Deep Vein Thrombosis Prevention Using Thin McKibben Muscles. , 2020, , .		4
18	Experimental Verification of Impact Absorbing Property of Wire Driven Joint with Synthetic Fiber Rope. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	Proposal and Prototyping of Self-Excited Pneumatic Actuator Using Automatic-Flow-Path-Switching-Mechanism. IEEE Robotics and Automation Letters, 2020, 5, 3058-3065.	3.3	4
20	Tendon-driven Elastic Telescopic Arm -Integration of Linear Motion and Bending Motion-. , 2020, , .		3
21	New Soft Robot Hand Configuration With Combined Biotensegrity and Thin Artificial Muscle. IEEE Robotics and Automation Letters, 2020, 5, 4345-4351.	3.3	31
22	Pneumatic Soft Actuator Using Self-Excitation Based on Automatic-Jet-Switching-Structure. IEEE Robotics and Automation Letters, 2020, 5, 4042-4048.	3.3	4
23	Design of a Guide Pulley Achieving Identical Wire Path Length for a Double Joint Mechanism. , 2020, , .		0
24	Simultaneous 3D Forming and Patterning Method of Realizing Soft IPMC Robots. , 2020, , .		2
25	Development of a super long reach coupled tendon-driven manipulator "Super Dragon", Transactions of the JSME (in Japanese), 2019, 85, 19-00075-19-00075.	0.1	1
26	Flying watch: an attachable strength enhancement device for long-reach robotic arms. ROBOMECH Journal, 2019, 6, .	0.9	3
27	IPMC Monolithic Thin Film Robots Fabricated Through a Multi-Layer Casting Process. IEEE Robotics and Automation Letters, 2019, 4, 1335-1342.	3.3	25
28	Super Dragon: A 10-m-Long-Coupled Tendon-Driven Articulated Manipulator. IEEE Robotics and Automation Letters, 2019, 4, 934-941.	3.3	42
29	Active Textile Braided in Three Strands with Thin McKibben Muscle. Soft Robotics, 2019, 6, 250-262.	4.6	32
30	Fabrication of "18 Weave" Muscles and Their Application to Soft Power Support Suit for Upper Limbs Using Thin McKibben Muscle. IEEE Robotics and Automation Letters, 2019, 4, 2532-2538.	3.3	53
31	Bundled Wire Drive: Proposal and Feasibility Study of a Novel Tendon-Driven Mechanism Using Synthetic Fiber Ropes. IEEE Robotics and Automation Letters, 2019, 4, 966-972.	3.3	11
32	Soft Polymer-Electrolyte-Fuel-Cell Tube Realizing Air-Hose-Free Thin McKibben Muscles. , 2019, , .		7
33	Food Handling Mechanism. Journal of the Robotics Society of Japan, 2019, 37, 495-498.	0.0	1
34	Frequency Response of Honeycomb Structured IPMC Actuator Fabricated through 3D Printing with Dispersion Liquid. , 2019, , .		1
35	Modeling of Synthetic Fiber Ropes and Frequency Response of Long-Distance Cable" Pulley System. IEEE Robotics and Automation Letters, 2018, 3, 1743-1750.	3.3	16
36	Long-Legged Hexapod Giacometti Robot Using Thin Soft McKibben Actuator. IEEE Robotics and Automation Letters, 2018, 3, 100-107.	3.3	26

#	ARTICLE	IF	CITATIONS
37	Prototyping of cylindrical structures made of helical artificial muscles. Transactions of the JSME (in Japanese), 2018, 84, 1-14.	0.1	1
38	A Proposal of Super Long Reach Articulated Manipulator with Gravity Compensation using Thrusters. , 2018, , .		9
39	Estimation of the Longitudinal Elasticity Modulus of Braided Synthetic Fiber Rope Utilizing Classical Laminate Theory with the Unit N/tex. Applied Sciences (Switzerland), 2018, 8, 1096.	1.3	6
40	Super-low friction and lightweight hydraulic cylinder using multi-directional forging magnesium alloy and its application to robotic leg. Advanced Robotics, 2018, 32, 524-534.	1.1	7
41	A proposal of a new rotational-compliant joint with oil-hydraulic McKibben artificial muscles. Advanced Robotics, 2018, 32, 511-523.	1.1	25
42	Development of New Terminal Fixation Method for Synthetic Fiber Ropes. IEEE Robotics and Automation Letters, 2018, 3, 4321-4328.	3.3	11
43	Braiding Thin McKibben Muscles to Enhance Their Contracting Abilities. IEEE Robotics and Automation Letters, 2018, 3, 3240-3246.	3.3	35
44	Basic study for drive mechanism with synthetic fiber rope (Terminal fixation method using a grooved) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.1	1
45	Investigation of Repetitive Bending Durability of Synthetic Fiber Ropes. IEEE Robotics and Automation Letters, 2018, 3, 1779-1786.	3.3	15
46	Design of thin McKibben muscle and multifilament structure. Sensors and Actuators A: Physical, 2017, 261, 66-74.	2.0	106
47	Spiral Mecanum Wheel achieving omnidirectional locomotion in step-climbing. , 2017, , .		6
48	Development of a coupled tendon-driven 3D multi-joint manipulator (Investigation of tension transfer) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.1	4
49	Development of a practical robotic follower to support Home Oxygen Therapy patients - empirical evaluation in public space. , 2017, , .		0
50	Analytical and experimental study on actuation time of displacement amplified electromagnetic actuator. , 2017, , .		1
51	Experimental Verification of the Hill-climbing Performance of Blade-Type Crawler for High-speed Rough-terrain. Journal of the Robotics Society of Japan, 2017, 35, 153-159.	0.0	1
52	Development of a 20-m-long Giacometti arm with balloon body based on kinematic model with air resistance. , 2017, , .		29
53	Proposal of tendon-driven elastic telescopic arm and initial bending experiment. , 2017, , .		4
54	Consecutive Impact Loading and Preloading Effect on Stiffness of Woven Synthetic-Fiber Rope. Journal of Textile Science and Technology, 2017, 03, 1-16.	0.2	9

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55	Development of a food handling gripper considering an appetizing presentation. , 2016, , .		31
56	Development of a Blade-type Crawler Mechanism for a Fast Deployment Task to Observe Eruptions on Mt. Mihara. Journal of Field Robotics, 2016, 33, 371-390.	3.2	13
57	Development of a mobile manipulator for nuclear plant disaster, HELIOS X (Mechanical design and) Tj ETQq1 1 0.784314 rgBJ /Overlo 0.1	0.1	2
58	A novel long-reach robot with propulsion through water-jet. , 2016, , .		7
59	Design of a weight-compensated and coupled tendon-driven articulated long-reach manipulator. , 2016, , .		18
60	Hose-free pneumatic bags-muscle driven by gas/liquid conversion. , 2016, , .		5
61	Blade-type crawler vehicle with wings in ground effect for traversing uneven terrain at high speed. , 2016, , .		2
62	Terrain mapping under extreme light conditions with direct stereo matching method through aggregating matching costs by weight. Advanced Robotics, 2016, 30, 861-876.	1.1	0
63	Development of a mobile robotic cart to support HOT patient's going out via Force and Inverted pendulum control. , 2016, , .		2
64	TITAN-XIII: sprawling-type quadruped robot with ability of fast and energy-efficient walking. ROBOMECH Journal, 2016, 3, .	0.9	66
65	Basic study for drive mechanism with synthetic fiber rope " investigation of strength reduction by bending and terminal fixation method. Advanced Robotics, 2016, 30, 206-217.	1.1	22
66	Normalizing abstractions of heterogeneous robotic systems by using Roles: usability study in the administration of software and development tools. Advanced Robotics, 2016, 30, 565-584.	1.1	0
67	Trot gait based feed-forward walking on challenging terrain: Case of high step climbing. , 2015, , .		2
68	Hand-Eye calibration using stereo camera through pure rotations -fitting circular arc in 3D space with joint angle constraint-. , 2015, , .		3
69	How to optimize the slope walking motion by the quadruped walking robot. Advanced Robotics, 2015, 29, 1497-1509.	1.1	10
70	In-field self-calibration of robotic manipulator using stereo camera: application to Humanitarian Demining Robot. Advanced Robotics, 2015, 29, 1045-1059.	1.1	3
71	A Proposal of Using Fiber reinforced Foamed Urethane as Structural Material for a Robot. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 208.	0.0	0
72	Strength of Synthetic Fiber Ropes Degraded by Repetitive Bending. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 27-28.	0.0	0

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73	FastWalking with Consideration of an Acceleration and a Deceleration for a Quadruped Robot. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 206-207.	0.0	1
74	PneumaticWalking Assistive System with a Soft Exoskeleton and a Follower Robot for Power Source. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 339-340.	0.0	0
75	Mobile robotic cart development to support Home Oxygen Therapy patient's going out via Force control with Inverted pendulum control. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 272-273.	0.0	0
76	Development of Surgical Forceps Manipulator Using Flexible Joint and Two Pneumatic Cylinder to Two Degree-of-Freedom Flexion. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 146-147.	0.0	0
77	Escort type mobile robotic cart development to support HOT patient's going out applying new operational interface mechanism. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 35-36.	0.0	0
78	Gliding, swimming and walking: Development of multi-functional underwater robot Glide Walker. , 2014, , .		2
79	Development of a coupled tendon-driven 3D multi-joint manipulator. , 2014, , .		28
80	Pneumatic walking assistive device for use over long period. Advanced Robotics, 2014, 28, 1253-1264.	1.1	3
81	Blade-type crawler vehicle bio-inspired by a wharf roach. , 2014, , .		7
82	Development of quadruped walking robot TITAN XII and its basic consideration on the control of large obstacle traversing motion. Transactions of the JSME (in Japanese), 2014, 80, DR0128-DR0128.	0.1	8
83	Mobile Robotic Field Server for Field-scale and Fruit-scale Crop Monitoring. Agricultural Information Research, 2014, 23, 140-153.	0.2	2
84	Basic consideration about optimal control of a quadruped walking robot during slope walking motion. , 2013, , .		4
85	Non-Tumbling Gait and directional normalized energy stability margin. Advanced Robotics, 2013, 27, 1137-1145.	1.1	4
86	Robot development in cooperation with patients: Application of Hyper-Tether to support Home Oxygen Therapy patients. , 2013, , .		0
87	Landmine buried depth estimation by curve characterization of metal mine detector signals. , 2013, , .		8
88	Development of biologically inspired educational robots based on gliding locomotion. , 2013, , .		3
89	Development of lightweight sprawling-type quadruped robot TITAN-XIII and its dynamic walking. , 2013, , .		26
90	Nontumbling Gait for Multilegged Robots and Its Directional Normalized Energy Stability Margin. ISRN Robotics, 2013, 2013, 1-10.	1.3	0

#	ARTICLE	IF	CITATIONS
91	Development of multi-wheeled snake-like rescue robots with active elastic trunk. , 2012, , .		22
92	Study on Roller-Walker " Improvement of Locomotive Efficiency of Quadruped Robots by Passive Wheels. Advanced Robotics, 2012, 26, 969-988.	1.1	25
93	Study on a practical robotic follower to support Home Oxygen Therapy patients — Prototype cart development applying the inverted pendulum control. , 2012, , .		6
94	Study on a practical robotic follower to support home oxygen therapy patients-development and control of a mobile platform. , 2011, , .		12
95	Study on Roller-Walker - Energy efficiency of Roller-Walk -. , 2011, , .		21
96	An empirical comparison of a free dynamics simulator “Open Dynamics Engine” with TITAN-VIII hardware torque/power measurements. , 2011, , .		4
97	Structure synthesis on-the-fly in a modular robot. , 2011, , .		7
98	Study of body weight shifting on robotic assisted gait rehabilitation with NaTUre-gaits. , 2011, , .		2
99	Development of a Light Duty Hand-Arm System:. Transactions of the Society of Instrument and Control Engineers, 2011, 47, 640-647.	0.1	0
100	A Weight Compensation Mechanism with a Non-Circular Pulley and a Spring: Application to a Parallel Four-Bar Linkage Arm. SICE Journal of Control Measurement and System Integration, 2010, 3, 130-136.	0.4	15
101	Development of a light duty arm with an active-fingertip gripper for handling discoid objects. , 2010, , .		6
102	A passive weight compensation mechanism with a non-circular pulley and a spring. , 2010, , .		55
103	A Biologically Inspired Biped Locomotion Strategy for Humanoid Robots: Modulation of Sinusoidal Patterns by a Coupled Oscillator Model. , 2008, 24, 185-191.		98
104	Study on Roller-Walker - Adaptation of characteristics of the propulsion by a leg trajectory -. , 2008, , .		18
105	A simple approach to diverse humanoid locomotion. , 2007, , .		2
106	Improving humanoid locomotive performance with learnt approximated dynamics via Gaussian processes for regression. , 2007, , .		15
107	Leg-wheel hybrid walking vehicle (Roller-Walker). Advanced Robotics, 1998, 13, 241-242.	1.1	4
108	A self-contained and terrain-adaptive active cord mechanism. Advanced Robotics, 1998, 13, 243-244.	1.1	2

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109	Stabilization and modelling of tensile properties of braided synthetic fibre rope for dynamic loading. Journal of the Textile Institute, 0, , 1-9.	1.0	2