

Wesley Roozing

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

286
citations

1684188
5
h-index

1474206
9
g-index

22
all docs

22
docs citations

22
times ranked

282
citing authors

#	ARTICLE	IF	CITATIONS
1	An Overview on Principles for Energy Efficient Robot Locomotion. <i>Frontiers in Robotics and AI</i> , 2018, 5, 129.	3.2	60
2	Development and Control of a Compliant Asymmetric Antagonistic Actuator for Energy Efficient Mobility. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016, 21, 1080-1091.	5.8	43
3	On the Stiffness Selection for Torque-Controlled Series-Elastic Actuators. <i>IEEE Robotics and Automation Letters</i> , 2017, 2, 2255-2262.	5.1	34
4	Design Optimisation and Control of Compliant Actuation Arrangements in Articulated Robots for Improved Energy Efficiency. <i>IEEE Robotics and Automation Letters</i> , 2016, 1, 1110-1117.	5.1	23
5	An efficient leg with series-parallel and biarticular compliant actuation: design optimization, modeling, and control of the eLeg. <i>International Journal of Robotics Research</i> , 2021, 40, 37-54.	8.5	21
6	Comparison of open-loop and closed-loop disturbance observers for series elastic actuators. , 2016, , .		17
7	Compliant antagonistic joint tuning for gravitational load cancellation and improved efficient mobility. , 2014, , .		13
8	Design of a Novel 3-DoF Leg with Series and Parallel Compliant Actuation for Energy Efficient Articulated Robots. , 2018, , .		12
9	What is the torque bandwidth of this actuator?. , 2017, , .		8
10	The eLeg: A Novel Efficient Leg Prototype Powered by Adjustable Parallel Compliant Actuation Principles. , 2018, , .		8
11	Low-cost vision-based 6-DOF MAV localization using IR beacons. , 2013, , .		5
12	On the efficient control of series-parallel compliant articulated robots. , 2020, , .		5
13	Energy-aware adaptive impedance control using offline task-based optimization. , 2021, , .		5
14	A Task-Based Post-Impact Safety Protocol Based on Energy Tanks. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 8791-8798.	5.1	5
15	Variable bipedal walking gait with variable leg stiffness. , 2014, , .		4
16	Explosive Motions with Compliant Actuation Arrangements in Articulated Robots. , 2018, , .		4
17	Enhanced Explosive Motion for Torque Controlled Actuators Through Field Weakening Control. , 2018, , .		4
18	Modeling and Control of Adjustable Articulated Parallel Compliant Actuation Arrangements in Articulated Robots. <i>Frontiers in Robotics and AI</i> , 2018, 5, 4.	3.2	4

#	ARTICLE	IF	CITATIONS
19	The Compliant Joint Toolbox for MATLAB: An Introduction With Examples. IEEE Robotics and Automation Magazine, 2019, 26, 52-63.	2.0	4
20	Bipedal walking gait with variable stiffness knees. , 2014, , .		3
21	Energy-based Safety in Series Elastic Actuation. , 2020, , .		2
22	Blending of Series-Parallel Compliant Actuation With Field Weakening Control for Explosive Motion Generation. IEEE Robotics and Automation Letters, 2021, 6, 2076-2083.	5.1	2