

Thiago Boaventura Cunha

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

625
citations

1684129

5
h-index

1720014

7
g-index

25
all docs

25
docs citations

25
times ranked

520
citing authors

#	ARTICLE	IF	CITATIONS
1	A hybrid model-based evolutionary optimization with passive boundaries for physical human-robot interaction. , 2022, , .		0
2	Certification of linear closed-loop controllers using the $\ u\ _2$ -gap metric and the generalized stability margin. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	0
3	Benchmarking Force Control Algorithms. , 2021, , .		4
4	Task-space impedance control of a parallel Delta robot using dual quaternions and a neural network. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	3
5	Joint kinematic configuration influence on the passivity of an impedance-controlled robotic leg. , 2019, , .		0
6	Online prediction of threading task failure using Convolutional Neural Networks. , 2018, , .		10
7	Control of Motion and Compliance. , 2017, , 135-346.		3
8	Interaction Force Estimation for Transparency Control on Wearable Robots Using a Kalman Filter. Biosystems and Biorobotics, 2017, , 489-493.	0.3	5
9	Acceleration-based transparency control framework for wearable robots. , 2016, , .		14
10	Is Active Impedance the Key to a Breakthrough for Legged Robots?. Springer Tracts in Advanced Robotics, 2016, , 3-19.	0.4	7
11	Coupled systems analyses for high-performance robust force control of wearable robots. , 2016, , .		1
12	Robot impedance control and passivity analysis with inner torque and velocity feedback loops. Control Theory and Technology, 2016, 14, 97-112.	1.6	56
13	WHY OFF-THE-SHELF PHYSICS SIMULATORS FAIL IN EVALUATING FEEDBACK CONTROLLER PERFORMANCE - A CASE STUDY FOR QUADRUPEDAL ROBOTS. , 2016, , 464-472.		3
14	Towards versatile legged robots through active impedance control. International Journal of Robotics Research, 2015, 34, 1003-1020.	8.5	146
15	Model-Based Hydraulic Impedance Control for Dynamic Robots. IEEE Transactions on Robotics, 2015, 31, 1324-1336.	10.3	105
16	On the use of positive feedback for improved torque control. Control Theory and Technology, 2015, 13, 266-285.	1.6	2
17	Stability and performance of the compliance controller of the quadruped robot HyQ. , 2013, , .		64
18	Torque-control based compliant actuation of a quadruped robot. , 2012, , .		18

#	ARTICLE	IF	CITATIONS
19	On the role of load motion compensation in high-performance force control. , 2012, , .		45
20	Performance Assessment of Digital Hydraulics in a Quadruped Robot Leg. , 2012, , .		2
21	Dynamic torque control of a hydraulic quadruped robot. , 2012, , .		104
22	Modeling of a novel 3-way rotary type electro-hydraulic valve. , 2010, , .		6
23	Control of a hydraulically-actuated quadruped robot leg. , 2010, , .		19
24	A tutorial on a multi-mode identification procedure based on the complex-curve fitting method. JVC/Journal of Vibration and Control, 0, , 107754632110576.	2.6	0