

Maziar Ahmad Sharbafi

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

753
citations

777949

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759306

22
g-index

57
all docs

57
docs citations

57
times ranked

450
citing authors

#	ARTICLE	IF	CITATIONS
1	Passive hydraulic prosthetic foot to improve the push-off during walking. Mechanism and Machine Theory, 2022, 172, 104777.	2.7	9
2	Bioinspired Legged Robot Design via Blended Physical and Virtual Impedance Control. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 105, 1.	2.0	7
3	Unified GRF-based control for adjusting hopping frequency with various robot configurations. Advanced Robotics, 2022, 36, 641-653.	1.1	5
4	Hybrid Electric-Pneumatic Actuator. Studies in Computational Intelligence, 2021, , 55-61.	0.7	3
5	Adjustable Compliance and Force Feedback as Key Elements for Stable and Efficient Hopping. IEEE Robotics and Automation Letters, 2021, 6, 6797-6804.	3.3	8
6	From a biological template model to gait assistance with an exosuit. Bioinspiration and Biomimetics, 2021, 16, 066024.	1.5	9
7	Biarticular muscles in light of template models, experiments and robotics: a review. Journal of the Royal Society Interface, 2020, 17, 20180413.	1.5	27
8	A Novel Adjustable Damper Design for a Hybrid Passive Ankle Prosthesis. Actuators, 2020, 9, 74.	1.2	7
9	How far are Pneumatic Artificial Muscles from biological muscles?. , 2020, , .		8
10	Neuromechanical force-based control of a powered prosthetic foot. Wearable Technologies, 2020, 1, .	1.6	13
11	A biarticular passive exosuit to support balance control can reduce metabolic cost of walking. Bioinspiration and Biomimetics, 2020, 15, 036009.	1.5	23
12	Bio-Inspired Balance Control Assistance Can Reduce Metabolic Energy Consumption in Human Walking. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1760-1769.	2.7	19
13	Concerted Control of Stance and Balance Locomotor Subfunctionsâ€™ Leg Force as a Conductor. IEEE Transactions on Medical Robotics and Bionics, 2019, 1, 49-57.	2.1	14
14	Parallel Compliance Design for Increasing Robustness and Efficiency in Legged Locomotionâ€™Proof of Concept. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1541-1552.	3.7	22
15	From template to anchors: transfer of virtual pendulum posture control balance template to adaptive neuromuscular gait model increases walking stability. Royal Society Open Science, 2019, 6, 181911.	1.1	16
16	TIP Model: A Combination of Unstable Subsystems for Lateral Balance in Walking. , 2019, , .		2
17	Human-like hopping in machines. Biological Cybernetics, 2019, 113, 227-238.	0.6	11
18	Modular Composition of Human Gaits Through Locomotor Subfunctions and Sensor-Motor-Maps. Biosystems and Biorobotics, 2019, , 339-343.	0.2	0

#	ARTICLE	IF	CITATIONS
19	Modeling, control and analysis of a curved feet compliant biped with HZD approach. Nonlinear Dynamics, 2018, 91, 459-473.	2.7	8
20	A 3D Template Model for Healthy and Impaired Walking. , 2018, , .		5
21	Leg Force Control Through Biarticular Muscles for Human Walking Assistance. Frontiers in Neurobotics, 2018, 12, 39.	1.6	24
22	How locomotion sub-functions can control walking at different speeds?. Journal of Biomechanics, 2017, 53, 163-170.	0.9	25
23	Reconstruction of human swing leg motion with passive biarticular muscle models. Human Movement Science, 2017, 52, 96-107.	0.6	28
24	Template model inspired leg force feedback based control can assist human walking. , 2017, 2017, 473-478.		22
25	Reflex control of body posture in standing. , 2017, , .		5
26	Fundamental Subfunctions of Locomotion. , 2017, , 11-53.		11
27	Conceptual Models of Legged Locomotion. , 2017, , 55-131.		9
28	Electric-Pneumatic Actuator: A New Muscle for Locomotion. Actuators, 2017, 6, 30.	1.2	23
29	Locomotor Sub-functions for Control of Assistive Wearable Robots. Frontiers in Neurobotics, 2017, 11, 44.	1.6	11
30	Legged Robots with Bioinspired Morphology. , 2017, , 457-561.		5
31	A new biarticular actuator design facilitates control of leg function in BioBiped3. Bioinspiration and Biomimetics, 2016, 11, 046003.	1.5	69
32	VBLA, a swing leg control approach for humans and robots. , 2016, , .		18
33	Template-based hopping control of a bio-inspired segmented robotic leg. , 2016, , .		8
34	FMCH: A new model for human-like postural control in walking. , 2015, , .		47
35	Mimicking human walking with 5-link model using HZD controller. , 2015, , .		3
36	ICE matching, robust and fast feature-based scan matching for an online operation. Journal of Experimental and Theoretical Artificial Intelligence, 2015, 27, 137-157.	1.8	1

#	ARTICLE	IF	CITATIONS
37	Hopping control for the musculoskeletal bipedal robot: BioBiped. , 2014, , .		14
38	SLIP with swing leg augmentation as a model for running. , 2014, , .		1
39	Stable running by leg force-modulated hip stiffness. , 2014, , .		17
40	Compliant hip function simplifies control for hopping and running. , 2013, , .		9
41	Robust hopping based on virtual pendulum posture control. Bioinspiration and Biomimetics, 2013, 8, 036002.	1.5	48
42	Controllers for robust hopping with upright trunk based on the Virtual Pendulum concept. , 2012, , .		25
43	Design and implementation of minimal components brushless DC motor driver for mobile robots. , 2011, , .		1
44	Increasing the robustness of Acrobot walking control using compliant mechanisms. , 2011, , .		1
45	IDFC: A new approach to control bifurcation in TCP/RED. Journal of Network and Computer Applications, 2011, 34, 2042-2050.	5.8	4
46	Improving operational space control of heavy manipulators via open-loop compensation. , 2011, , .		1
47	ICE matching, a novel approach for localization problem. , 2010, , .		1
48	ICE Matching, a Robust Mobile Robot Localization with Application to SLAM. , 2010, , .		3
49	Multi agent routing to multi targets via ant colony. , 2010, , .		7
50	Motion Control of Omni-Directional Three-Wheel Robots by Brain-Emotional-Learning-Based Intelligent Controller. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 630-638.	3.3	70
51	Designing a Bidding-Agent for Electricity Markets: A Multi Agent Cooperative Learning Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8443-8448.	0.4	1
52	Implementing Parametric Reinforcement Learning in Robocup Rescue Simulation. Lecture Notes in Computer Science, 2008, , 409-416.	1.0	4
53	A combination of MADM and genetic algorithm for optimal DG allocation in power systems. , 2007, , .		20