

Alessandro Crespi

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

2,887
citations

687363

13
h-index

1058476

14
g-index

17
all docs

17
docs citations

17
times ranked

2427
citing authors

#	ARTICLE	IF	CITATIONS
1	From Swimming to Walking with a Salamander Robot Driven by a Spinal Cord Model. <i>Science</i> , 2007, 315, 1416-1420.	12.6	962
2	Tracking Individuals Shows Spatial Fidelity Is a Key Regulator of Ant Social Organization. <i>Science</i> , 2013, 340, 1090-1093.	12.6	335
3	AmphiBot I: an amphibious snake-like robot. <i>Robotics and Autonomous Systems</i> , 2005, 50, 163-175.	5.1	265
4	Online Optimization of Swimming and Crawling in an Amphibious Snake Robot. <i>IEEE Transactions on Robotics</i> , 2008, 24, 75-87.	10.3	256
5	Salamandra Robotica II: An Amphibious Robot to Study Salamander-Like Swimming and Walking Gaits. <i>IEEE Transactions on Robotics</i> , 2013, 29, 308-320.	10.3	213
6	Social network plasticity decreases disease transmission in a eusocial insect. <i>Science</i> , 2018, 362, 941-945.	12.6	202
7	Simulation and Robotics Studies of Salamander Locomotion: Applying Neurobiological Principles to the Control of Locomotion in Robots. <i>Neuroinformatics</i> , 2005, 3, 171-196.	2.8	166
8	Controlling swimming and crawling in a fish robot using a central pattern generator. <i>Autonomous Robots</i> , 2008, 25, 3-13.	4.8	148
9	Environmental monitoring using autonomous vehicles: a survey of recent searching techniques. <i>Current Opinion in Biotechnology</i> , 2017, 45, 76-84.	6.6	119
10	Online trajectory generation in an amphibious snake robot using a lamprey-like central pattern generator model. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007, , .	0.0	100
11	Flexibility of the axial central pattern generator network for locomotion in the salamander. <i>Journal of Neurophysiology</i> , 2015, 113, 1921-1940.	1.8	38
12	Automated computer-based detection of encounter behaviours in groups of honeybees. <i>Scientific Reports</i> , 2017, 7, 17663.	3.3	22
13	Reproducing Five Motor Behaviors in a Salamander Robot With Virtual Muscles and a Distributed CPG Controller Regulated by Drive Signals and Proprioceptive Feedback. <i>Frontiers in Neurorobotics</i> , 2020, 14, 604426.	2.8	21
14	Envirobot: A bio-inspired environmental monitoring platform. , 2016, , .		17
15	Salamandra Robotica: A Biologically Inspired Amphibious Robot that Swims and Walks. , 2009, , 35-64.		10
16	A Neuro-Inspired Computational Model for a Visually Guided Robotic Lamprey Using Frame and Event Based Cameras. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 2395-2402.	5.1	9