

Dario Floreano

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73
papers

3,832
citations

28
h-index

61
g-index

80
ext. papers

5,234
ext. citations

8.5
avg, IF

6.26
L-index

#	Paper	IF	Citations
73	Science, technology and the future of small autonomous drones. <i>Nature</i> , 2015 , 521, 460-6	50.4	582
72	Soft Robotic Grippers. <i>Advanced Materials</i> , 2018 , 30, e1707035	24	555
71	Versatile Soft Grippers with Intrinsic Electroadhesion Based on Multifunctional Polymer Actuators. <i>Advanced Materials</i> , 2016 , 28, 231-8	24	394
70	Variable stiffness material based on rigid low-melting-point-alloy microstructures embedded in soft poly(dimethylsiloxane) (PDMS). <i>RSC Advances</i> , 2013 , 3, 24671	3.7	146
69	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 1690-1700	6.8	144
68	Stretchable pumps for soft machines. <i>Nature</i> , 2019 , 572, 516-519	50.4	140
67	Ultrastretchable Strain Sensors Using Carbon Black-Filled Elastomer Composites and Comparison of Capacitive Versus Resistive Sensors. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700284	6.8	139
66	Soft Biomimetic Fish Robot Made of Dielectric Elastomer Actuators. <i>Soft Robotics</i> , 2018 , 5, 466-474	9.2	119
65	Steerable miniature jumping robot. <i>Autonomous Robots</i> , 2010 , 28, 295-306	3	103
64	Variable Stiffness Fiber with Self-Healing Capability. <i>Advanced Materials</i> , 2016 , 28, 10142-10148	24	101
63	A Collision-resilient Flying Robot. <i>Journal of Field Robotics</i> , 2014 , 31, 496-509	6.7	98
62	Sleep and Wake Classification With ECG and Respiratory Effort Signals. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2009 , 3, 71-8	5.1	97
61	The Foldable Drone: A Morphing Quadrotor That Can Squeeze and Fly. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 209-216	4.2	93
60	Analog Genetic Encoding for the Evolution of Circuits and Networks. <i>IEEE Transactions on Evolutionary Computation</i> , 2007 , 11, 596-607	15.6	74
59	The current state and future outlook of rescue robotics. <i>Journal of Field Robotics</i> , 2019 , 36, 1171-1191	6.7	73
58	Genetic Team Composition and Level of Selection in the Evolution of Cooperation. <i>IEEE Transactions on Evolutionary Computation</i> , 2009 , 13, 648-660	15.6	72
57	A perching mechanism for micro aerial vehicles. <i>Journal of Micro-Nano Mechatronics</i> , 2009 , 5, 77-91		66

56	Bioinspired dual-stiffness origami. <i>Science Robotics</i> , 2018 , 3,	18.6	61
55	From wheels to wings with evolutionary spiking circuits. <i>Artificial Life</i> , 2005 , 11, 121-38	1.4	47
54	Magnetic Continuum Device with Variable Stiffness for Minimally Invasive Surgery. <i>Advanced Intelligent Systems</i> , 2020 , 2, 1900086	6	46
53	Reynolds flocking in reality with fixed-wing robots: Communication range vs. maximum turning rate 2011 ,		45
52	Adaptive Morphology: A Design Principle for Multimodal and Multifunctional Robots. <i>IEEE Robotics and Automation Magazine</i> , 2016 , 23, 42-54	3.4	45
51	A Foldable Antagonistic Actuator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1997-2008	5.5	42
50	. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 2362-2369	4.2	36
49	Insect-Inspired Mechanical Resilience for Multicopters. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 1248-1255	4.2	34
48	Evolution of spiking neural circuits in autonomous mobile robots. <i>International Journal of Intelligent Systems</i> , 2006 , 21, 1005-1024	8.4	32
47	On-Board Relative Bearing Estimation for Teams of Drones Using Sound. <i>IEEE Robotics and Automation Letters</i> , 2016 , 1, 820-827	4.2	31
46	Learning Vision-Based Flight in Drone Swarms by Imitation. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 4523-4530	4.2	30
45	Data-driven body-machine interface for the accurate control of drones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7913-7918	11.5	26
44	. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 3813-3820	4.2	25
43	Euler spring collision protection for flying robots 2013 ,		24
42	Bioinspired wing and tail morphing extends drone flight capabilities. <i>Science Robotics</i> , 2020 , 5,	18.6	23
41	All-Fabric Wearable Electroadhesive Clutch. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800313	6.8	22
40	Forceful manipulation with micro air vehicles. <i>Science Robotics</i> , 2018 , 3,	18.6	19
39	Indoor navigation with a swarm of flying robots 2012 ,		18

38	Phase Changing Materials-Based Variable-Stiffness Tensegrity Structures. <i>Soft Robotics</i> , 2020 , 7, 362-369.	2	18
37	An Active Uprighting Mechanism for Flying Robots. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 1152-1157	6.5	15
36	Predictive control of aerial swarms in cluttered environments. <i>Nature Machine Intelligence</i> , 2021 , 3, 545-554	5.5	14
35	The AirBurr: A flying robot that can exploit collisions	2012 ,	13
34	Inquiry-Based Learning With RoboGen: An Open-Source Software and Hardware Platform for Robotics and Artificial Intelligence. <i>IEEE Transactions on Learning Technologies</i> , 2019 , 12, 356-369	4	13
33	Lighter and Stronger: Cofabricated Electrodes and Variable Stiffness Elements in Dielectric Actuators. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000069	6	12
32	The Influence of Limited Visual Sensing on the Reynolds Flocking Algorithm	2019 ,	11
31	A Morphing Cargo Drone for Safe Flight in Proximity of Humans. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 4233-4240	4.2	10
30	UWB-based System for UAV Localization in GNSS-Denied Environments: Characterization and Dataset	2020 ,	10
29	Soft Haptic Device to Render the Sensation of Flying Like a Drone. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 2524-2531	4.2	9
28	Variable-stiffness tensegrity spine. <i>Smart Materials and Structures</i> , 2020 , 29, 075013	3.4	9
27	Haptic Feedback Perception and Learning With Cable-Driven Guidance in Exosuit Teleoperation of a Simulated Drone. <i>IEEE Transactions on Haptics</i> , 2019 , 12, 375-385	2.7	9
26	Vision-Based Drone Flocking in Outdoor Environments. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 2954-2961	4.2	9
25	Spatial Encoding of Translational Optic Flow in Planar Scenes by Elementary Motion Detector Arrays. <i>Scientific Reports</i> , 2018 , 8, 5821	4.9	8
24	Downside Up: Rethinking Parcel Position for Aerial Delivery. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 4297-4304	4.2	6
23	Enhancing pilot performance with a SymBodic system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 6599-602	0.9	5
22	Haptic Guidance with a Soft Exoskeleton Reduces Error in Drone Teleoperation. <i>Lecture Notes in Computer Science</i> , 2018 , 404-415	0.9	5
21	Personalized Telerobotics by Fast Machine Learning of Body-Machine Interfaces. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 179-186	4.2	5

20	VIODE: A Simulated Dataset to Address the Challenges of Visual-Inertial Odometry in Dynamic Environments. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 1343-1350	4.2	5
19	Cross-Packet Coding for Delay-Constrained Streaming Applications. <i>IEEE Communications Letters</i> , 2019 , 23, 1962-1966	3.8	4
18	Embodied Flight with a Drone 2019 ,		4
17	Tracking and Relative Localization of Drone Swarms With a Vision-Based Headset. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 1455-1462	4.2	4
16	Stretchable and Soft Electrode Adhesion Using Liquid-Metal Subsurface Microelectrodes. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100263	6.8	4
15	A Variable Stiffness Magnetic Catheter Made of a Conductive Phase-Change Polymer for Minimally Invasive Surgery. <i>Advanced Functional Materials</i> , 2107662	15.6	3
14	SwarmLab: a Matlab Drone Swarm Simulator 2020 ,		3
13	Hand-worn Haptic Interface for Drone Teleoperation 2020 ,		3
12	Smart Textiles that Teach: Fabric-Based Haptic Device Improves the Rate of Motor Learning. <i>Advanced Intelligent Systems</i> , 2100043	6	3
11	Insect Inspired Self-Righting for Fixed-Wing Drones. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 6805-6812	4.1	3
10	How to compete with robots by assessing job automation risks and resilient alternatives.. <i>Science Robotics</i> , 2022 , 7, eabg5561	18.6	2
9	Robotic Elytra: Insect-Inspired Protective Wings for Resilient and Multi-Modal Drones. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 223-230	4.2	1
8	Arm-wrist haptic sleeve for drone teleoperation. <i>IEEE Robotics and Automation Letters</i> , 2021 , 1-1	4.2	1
7	Distributed Predictive Drone Swarms in Cluttered Environments. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 73-80	4.2	1
6	Conditions for the emergence of circumnutations in plant roots. <i>PLoS ONE</i> , 2021 , 16, e0252202	3.7	1
5	On the Scalability of Vision-Based Drone Swarms in the Presence of Occlusions. <i>IEEE Access</i> , 2022 , 10, 28133-28146	3.5	1
4	Autonomous Detection and Deterrence of Pigeons on Buildings by Drones. <i>IEEE Access</i> , 2022 , 10, 1745-1755	3.5	0
3	Passive Perching with Energy Storage for Winged Aerial Robots. <i>Advanced Intelligent Systems</i> , 2100150	6	0

- 2 Personalized Human-Swarm Interaction Through Hand Motion. *IEEE Robotics and Automation Letters*, **2021**, 6, 8341-8348 4.2 ○
- 1 Dual Stiffness Tensegrity Platform for Resilient Robotics. *Advanced Intelligent Systems*, 2200025 6