

# Dario Floreano

## List of Publications by Year in Descending Order

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**Version:** 2024-04-26

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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	Autonomous Detection and Deterrence of Pigeons on Buildings by Drones. <i>IEEE Access</i> , <b>2022</b> , 10, 1745-1755	3.55	0
72	Robotic Elytra: Insect-Inspired Protective Wings for Resilient and Multi-Modal Drones. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 7, 223-230	4.2	1
71	Distributed Predictive Drone Swarms in Cluttered Environments. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 7, 73-80	4.2	1
70	On the Scalability of Vision-Based Drone Swarms in the Presence of Occlusions. <i>IEEE Access</i> , <b>2022</b> , 10, 28133-28146	3.5	1
69	How to compete with robots by assessing job automation risks and resilient alternatives.. <i>Science Robotics</i> , <b>2022</b> , 7, eabg5561	18.6	2
68	Arm-wrist haptic sleeve for drone teleoperation. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 1-1	4.2	1
67	Vision-Based Drone Flocking in Outdoor Environments. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 2954-2961	4.2	9
66	Tracking and Relative Localization of Drone Swarms With a Vision-Based Headset. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 1455-1462	4.2	4
65	VIODE: A Simulated Dataset to Address the Challenges of Visual-Inertial Odometry in Dynamic Environments. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 1343-1350	4.2	5
64	Predictive control of aerial swarms in cluttered environments. <i>Nature Machine Intelligence</i> , <b>2021</b> , 3, 545-554	5.4	14
63	Conditions for the emergence of circumnutations in plant roots. <i>PLoS ONE</i> , <b>2021</b> , 16, e0252202	3.7	1
62	Stretchable and Soft Electroadhesion Using Liquid-Metal Subsurface Microelectrodes. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2100263	6.8	4
61	Personalized Human-Swarm Interaction Through Hand Motion. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 8341-8348	4.2	0
60	Insect Inspired Self-Righting for Fixed-Wing Drones. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 6805-6812	4.2	3
59	A Morphing Cargo Drone for Safe Flight in Proximity of Humans. <i>IEEE Robotics and Automation Letters</i> , <b>2020</b> , 5, 4233-4240	4.2	10
58	Variable-stiffness tensegrity spine. <i>Smart Materials and Structures</i> , <b>2020</b> , 29, 075013	3.4	9
57	SwarmLab: a Matlab Drone Swarm Simulator <b>2020</b> ,		3

56	UWB-based System for UAV Localization in GNSS-Denied Environments: Characterization and Dataset <b>2020</b> ,		10
55	Magnetic Continuum Device with Variable Stiffness for Minimally Invasive Surgery. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 1900086	6	46
54	Phase Changing Materials-Based Variable-Stiffness Tensegrity Structures. <i>Soft Robotics</i> , <b>2020</b> , 7, 362-369.	4.2	18
53	Personalized Telerobotics by Fast Machine Learning of Body-Machine Interfaces. <i>IEEE Robotics and Automation Letters</i> , <b>2020</b> , 5, 179-186	4.2	5
52	Hand-worn Haptic Interface for Drone Teleoperation <b>2020</b> ,		3
51	Downside Up: Rethinking Parcel Position for Aerial Delivery. <i>IEEE Robotics and Automation Letters</i> , <b>2020</b> , 5, 4297-4304	4.2	6
50	Lighter and Stronger: Cofabricated Electrodes and Variable Stiffness Elements in Dielectric Actuators. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 2000069	6	12
49	Bioinspired wing and tail morphing extends drone flight capabilities. <i>Science Robotics</i> , <b>2020</b> , 5,	18.6	23
48	Learning Vision-Based Flight in Drone Swarms by Imitation. <i>IEEE Robotics and Automation Letters</i> , <b>2019</b> , 4, 4523-4530	4.2	30
47	Cross-Packet Coding for Delay-Constrained Streaming Applications. <i>IEEE Communications Letters</i> , <b>2019</b> , 23, 1962-1966	3.8	4
46	Soft Haptic Device to Render the Sensation of Flying Like a Drone. <i>IEEE Robotics and Automation Letters</i> , <b>2019</b> , 4, 2524-2531	4.2	9
45	The current state and future outlook of rescue robotics. <i>Journal of Field Robotics</i> , <b>2019</b> , 36, 1171-1191	6.7	73
44	Stretchable pumps for soft machines. <i>Nature</i> , <b>2019</b> , 572, 516-519	50.4	140
43	Embodied Flight with a Drone <b>2019</b> ,		4
42	The Influence of Limited Visual Sensing on the Reynolds Flocking Algorithm <b>2019</b> ,		11
41	Haptic Feedback Perception and Learning With Cable-Driven Guidance in Exosuit Teleoperation of a Simulated Drone. <i>IEEE Transactions on Haptics</i> , <b>2019</b> , 12, 375-385	2.7	9
40	All-Fabric Wearable Electrode Adhesive Clutch. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800313	6.8	22
39	The Foldable Drone: A Morphing Quadrotor That Can Squeeze and Fly. <i>IEEE Robotics and Automation Letters</i> , <b>2019</b> , 4, 209-216	4.2	93

38	Inquiry-Based Learning With RoboGen: An Open-Source Software and Hardware Platform for Robotics and Artificial Intelligence. <i>IEEE Transactions on Learning Technologies</i> , <b>2019</b> , 12, 356-369	4	13
37	. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 2362-2369	4.2	36
36	Ultrastretchable Strain Sensors Using Carbon Black-Filled Elastomer Composites and Comparison of Capacitive Versus Resistive Sensors. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1700284	6.8	139
35	Soft Biomimetic Fish Robot Made of Dielectric Elastomer Actuators. <i>Soft Robotics</i> , <b>2018</b> , 5, 466-474	9.2	119
34	. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 3813-3820	4.2	25
33	Bioinspired dual-stiffness origami. <i>Science Robotics</i> , <b>2018</b> , 3,	18.6	61
32	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> , <b>2018</b> , 115, 7913-7918	11.5	26
31	Spatial Encoding of Translational Optic Flow in Planar Scenes by Elementary Motion Detector Arrays. <i>Scientific Reports</i> , <b>2018</b> , 8, 5821	4.9	8
30	Haptic Guidance with a Soft Exoskeleton Reduces Error in Drone Teleoperation. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 404-415	0.9	5
29	Forceful manipulation with micro air vehicles. <i>Science Robotics</i> , <b>2018</b> , 3,	18.6	19
28	Soft Robotic Grippers. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707035	24	555
27	Insect-Inspired Mechanical Resilience for Multicopters. <i>IEEE Robotics and Automation Letters</i> , <b>2017</b> , 2, 1248-1255	4.2	34
26	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 1690-1700	6.8	144
25	On-Board Relative Bearing Estimation for Teams of Drones Using Sound. <i>IEEE Robotics and Automation Letters</i> , <b>2016</b> , 1, 820-827	4.2	31
24	Versatile Soft Grippers with Intrinsic Electroadhesion Based on Multifunctional Polymer Actuators. <i>Advanced Materials</i> , <b>2016</b> , 28, 231-8	24	394
23	Adaptive Morphology: A Design Principle for Multimodal and Multifunctional Robots. <i>IEEE Robotics and Automation Magazine</i> , <b>2016</b> , 23, 42-54	3.4	45
22	Variable Stiffness Fiber with Self-Healing Capability. <i>Advanced Materials</i> , <b>2016</b> , 28, 10142-10148	24	101
21	A Foldable Antagonistic Actuator. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2015</b> , 20, 1997-2008	5.5	42

20	Science, technology and the future of small autonomous drones. <i>Nature</i> , <b>2015</b> , 521, 460-6	50.4	582
19	A Collision-resilient Flying Robot. <i>Journal of Field Robotics</i> , <b>2014</b> , 31, 496-509	6.7	98
18	Variable stiffness material based on rigid low-melting-point-alloy microstructures embedded in soft poly(dimethylsiloxane) (PDMS). <i>RSC Advances</i> , <b>2013</b> , 3, 24671	3.7	146
17	Euler spring collision protection for flying robots <b>2013</b> ,		24
16	An Active Uprighting Mechanism for Flying Robots. <i>IEEE Transactions on Robotics</i> , <b>2012</b> , 28, 1152-1157	6.5	15
15	The AirBurr: A flying robot that can exploit collisions <b>2012</b> ,		13
14	Indoor navigation with a swarm of flying robots <b>2012</b> ,		18
13	Reynolds flocking in reality with fixed-wing robots: Communication range vs. maximum turning rate <b>2011</b> ,		45
12	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> , <b>2010</b> , 2010, 6599-602	0.9	5
11	Steerable miniature jumping robot. <i>Autonomous Robots</i> , <b>2010</b> , 28, 295-306	3	103
10	Genetic Team Composition and Level of Selection in the Evolution of Cooperation. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2009</b> , 13, 648-660	15.6	72
9	A perching mechanism for micro aerial vehicles. <i>Journal of Micro-Nano Mechatronics</i> , <b>2009</b> , 5, 77-91		66
8	Sleep and Wake Classification With ECG and Respiratory Effort Signals. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2009</b> , 3, 71-8	5.1	97
7	Analog Genetic Encoding for the Evolution of Circuits and Networks. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2007</b> , 11, 596-607	15.6	74
6	Evolution of spiking neural circuits in autonomous mobile robots. <i>International Journal of Intelligent Systems</i> , <b>2006</b> , 21, 1005-1024	8.4	32
5	From wheels to wings with evolutionary spiking circuits. <i>Artificial Life</i> , <b>2005</b> , 11, 121-38	1.4	47
4	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
3	Passive Perching with Energy Storage for Winged Aerial Robots. <i>Advanced Intelligent Systems</i> , 2100150	6	0

- 2 Smart Textiles that Teach: Fabric-Based Haptic Device Improves the Rate of Motor Learning. *Advanced Intelligent Systems*,2100043 6 3
- 1 Dual Stiffness Tensegrity Platform for Resilient Robotics. *Advanced Intelligent Systems*,2200025 6