

Dario Floreano

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

6,620
citations

109137

35
h-index

102304

66
g-index

80
all docs

80
docs citations

80
times ranked

6214
citing authors

#	ARTICLE	IF	CITATIONS
1	Passive Perching with Energy Storage for Winged Aerial Robots. <i>Advanced Intelligent Systems</i> , 2023, 5, 2100150.	3.3	12
2	Distributed Predictive Drone Swarms in Cluttered Environments. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 73-80.	3.3	22
3	Robotic <i>Elytra</i> : Insect-Inspired Protective Wings for Resilient and Multi-Modal Drones. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 223-230.	3.3	4
4	Arm-Wrist Haptic Sleeve for Drone Teleoperation. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 12054-12061.	3.3	4
5	Autonomous Detection and Deterrence of Pigeons on Buildings by Drones. <i>IEEE Access</i> , 2022, 10, 1745-1755.	2.6	6
6	A Variable Stiffness Magnetic Catheter Made of a Conductive Phase-Change Polymer for Minimally Invasive Surgery. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	40
7	On the Scalability of Vision-Based Drone Swarms in the Presence of Occlusions. <i>IEEE Access</i> , 2022, 10, 28133-28146.	2.6	8
8	How to compete with robots by assessing job automation risks and resilient alternatives. <i>Science Robotics</i> , 2022, 7, eabg5561.	9.9	10
9	Dual Stiffness Tensegrity Platform for Resilient Robotics. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	4
10	Machine-Learning Based Monitoring of Cognitive Workload in Rescue Missions With Drones. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 4751-4762.	3.9	2
11	The Impact of Virtual Reality and Viewpoints in Body Motion Based Drone Teleoperation. , 2021, , .		3
12	Vision-Based Drone Flocking in Outdoor Environments. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 2954-2961.	3.3	42
13	Tracking and Relative Localization of Drone Swarms With a Vision-Based Headset. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 1455-1462.	3.3	22
14	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.	3.3	24
15	Predictive control of aerial swarms in cluttered environments. <i>Nature Machine Intelligence</i> , 2021, 3, 545-554.	8.3	66
16	Conditions for the emergence of circumnutations in plant roots. <i>PLoS ONE</i> , 2021, 16, e0252202.	1.1	7
17	Stretchable and Soft Electroadhesion Using Liquid-Metal Subsurface Microelectrodes. <i>Advanced Materials Technologies</i> , 2021, 6, 2100263.	3.0	16
18	From individual robots to robot societies. <i>Science Robotics</i> , 2021, 6, .	9.9	7

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19	Smart Textiles that Teach: Fabric-Based Haptic Device Improves the Rate of Motor Learning. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100043.	3.3	9
20	Personalized Human-Swarm Interaction Through Hand Motion. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 8341-8348.	3.3	1
21	Insect Inspired Self-Righting for Fixed-Wing Drones. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 6805-6812.	3.3	6
22	Magnetic Continuum Device with Variable Stiffness for Minimally Invasive Surgery. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900086.	3.3	92
23	Phase Changing Materials-Based Variable-Stiffness Tensegrity Structures. <i>Soft Robotics</i> , 2020, 7, 362-369.	4.6	40
24	Personalized Telerobotics by Fast Machine Learning of Body-Machine Interfaces. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 179-186.	3.3	15
25	Hand-worn Haptic Interface for Drone Teleoperation. , 2020, , .		14
26	Downside Up: Rethinking Parcel Position for Aerial Delivery. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 4297-4304.	3.3	14
27	Lighter and Stronger: Cofabricated Electrodes and Variable Stiffness Elements in Dielectric Actuators. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000069.	3.3	24
28	Bioinspired wing and tail morphing extends drone flight capabilities. <i>Science Robotics</i> , 2020, 5, .	9.9	80
29	A Morphing Cargo Drone for Safe Flight in Proximity of Humans. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 4233-4240.	3.3	20
30	Variable-stiffness tensegrity spine. <i>Smart Materials and Structures</i> , 2020, 29, 075013.	1.8	30
31	SwarmLab: a Matlab Drone Swarm Simulator. , 2020, , .		27
32	UWB-based System for UAV Localization in GNSS-Denied Environments: Characterization and Dataset. , 2020, , .		48
33	The current state and future outlook of rescue robotics. <i>Journal of Field Robotics</i> , 2019, 36, 1171-1191.	3.2	182
34	Stretchable pumps for soft machines. <i>Nature</i> , 2019, 572, 516-519.	18.7	263
35	Embodied Flight with a Drone. , 2019, , .		10
36	The Influence of Limited Visual Sensing on the Reynolds Flocking Algorithm. , 2019, , .		21

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37	Haptic Feedback Perception and Learning With Cable-Driven Guidance in Exosuit Teleoperation of a Simulated Drone. IEEE Transactions on Haptics, 2019, 12, 375-385.	1.8	13
38	Learning Vision-Based Flight in Drone Swarms by Imitation. IEEE Robotics and Automation Letters, 2019, 4, 4523-4530.	3.3	51
39	Cross-Packet Coding for Delay-Constrained Streaming Applications. IEEE Communications Letters, 2019, 23, 1962-1966.	2.5	4
40	Soft Haptic Device to Render the Sensation of Flying Like a Drone. IEEE Robotics and Automation Letters, 2019, 4, 2524-2531.	3.3	18
41	All-Fabric Wearable Electroadhesive Clutch. Advanced Materials Technologies, 2019, 4, 1800313.	3.0	43
42	The Foldable Drone: A Morphing Quadrotor That Can Squeeze and Fly. IEEE Robotics and Automation Letters, 2019, 4, 209-216.	3.3	178
43	Inquiry-Based Learning With RoboGen: An Open-Source Software and Hardware Platform for Robotics and Artificial Intelligence. IEEE Transactions on Learning Technologies, 2019, 12, 356-369.	2.2	23
44	FlyJacket: An Upper Body Soft Exoskeleton for Immersive Drone Control. IEEE Robotics and Automation Letters, 2018, 3, 2362-2369.	3.3	70
45	Ultrastretchable Strain Sensors Using Carbon Black-Filled Elastomer Composites and Comparison of Capacitive Versus Resistive Sensors. Advanced Materials Technologies, 2018, 3, 1700284.	3.0	219
46	Forceful manipulation with micro air vehicles. Science Robotics, 2018, 3, .	9.9	40
47	Soft Robotic Grippers. Advanced Materials, 2018, 30, e1707035.	11.1	1,097
48	Soft Biomimetic Fish Robot Made of Dielectric Elastomer Actuators. Soft Robotics, 2018, 5, 466-474.	4.6	222
49	Last-Centimeter Personal Drone Delivery: Field Deployment and User Interaction. IEEE Robotics and Automation Letters, 2018, 3, 3813-3820.	3.3	45
50	Bioinspired dual-stiffness origami. Science Robotics, 2018, 3, .	9.9	115
51	Data-driven body-machine interface for the accurate control of drones. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7913-7918.	3.3	57
52	Spatial Encoding of Translational Optic Flow in Planar Scenes by Elementary Motion Detector Arrays. Scientific Reports, 2018, 8, 5821.	1.6	11
53	Haptic Guidance with a Soft Exoskeleton Reduces Error in Drone Teleoperation. Lecture Notes in Computer Science, 2018, , 404-415.	1.0	7
54	Insect-Inspired Mechanical Resilience for Multicopters. IEEE Robotics and Automation Letters, 2017, 2, 1248-1255.	3.3	61

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55	Versatile Soft Grippers with Intrinsic Electrodehesion Based on Multifunctional Polymer Actuators. <i>Advanced Materials</i> , 2016, 28, 231-238.	11.1	593
56	Adaptive Morphology: A Design Principle for Multimodal and Multifunctional Robots. <i>IEEE Robotics and Automation Magazine</i> , 2016, 23, 42-54.	2.2	71
57	Variable Stiffness Fiber with Self-Healing Capability. <i>Advanced Materials</i> , 2016, 28, 10142-10148.	11.1	142
58	On-Board Relative Bearing Estimation for Teams of Drones Using Sound. <i>IEEE Robotics and Automation Letters</i> , 2016, 1, 820-827.	3.3	37
59	Dynamic Routing for Flying Ad Hoc Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2016, 65, 1690-1700.	3.9	216
60	Science, technology and the future of small autonomous drones. <i>Nature</i> , 2015, 521, 460-466.	13.7	908
61	A Foldable Antagonistic Actuator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 1997-2008.	3.7	60
62	A Collision-Resilient Flying Robot. <i>Journal of Field Robotics</i> , 2014, 31, 496-509.	3.2	145
63	Variable stiffness material based on rigid low-melting-point-alloy microstructures embedded in soft poly(dimethylsiloxane) (PDMS). <i>RSC Advances</i> , 2013, 3, 24671.	1.7	185
64	Euler spring collision protection for flying robots. , 2013, , .		35
65	An Active Uprighting Mechanism for Flying Robots. <i>IEEE Transactions on Robotics</i> , 2012, 28, 1152-1157.	7.3	17
66	The AirBurr: A flying robot that can exploit collisions. , 2012, , .		23
67	Indoor navigation with a swarm of flying robots. , 2012, , .		25
68	Reynolds flocking in reality with fixed-wing robots: Communication range vs. maximum turning rate. , 2011, , .		70
69	Steerable miniature jumping robot. <i>Autonomous Robots</i> , 2010, 28, 295-306.	3.2	128
70	Enhancing pilot performance with a SymBodic system. , 2010, 2010, 6599-602.		5
71	Genetic Team Composition and Level of Selection in the Evolution of Cooperation. <i>IEEE Transactions on Evolutionary Computation</i> , 2009, 13, 648-660.	7.5	94
72	A perching mechanism for micro aerial vehicles. <i>Journal of Micro-Nano Mechatronics</i> , 2009, 5, 77-91.	1.0	87

#	ARTICLE	IF	CITATIONS
73	Sleep and Wake Classification With ECG and Respiratory Effort Signals. IEEE Transactions on Biomedical Circuits and Systems, 2009, 3, 71-78.	2.7	112
74	Analog Genetic Encoding for the Evolution of Circuits and Networks. IEEE Transactions on Evolutionary Computation, 2007, 11, 596-607.	7.5	99
75	Evolution of spiking neural circuits in autonomous mobile robots. International Journal of Intelligent Systems, 2006, 21, 1005-1024.	3.3	38
76	From Wheels to Wings with Evolutionary Spiking Circuits. Artificial Life, 2005, 11, 121-138.	1.0	54
77	Enhancement of pressure-sensitive adhesive by CO ₂ laser treatment. Advanced Engineering Materials, 0, , .	1.6	0