

Carrick Detweiler

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

992
citations

516710

16
h-index

552781

26
g-index

50
all docs

50
docs citations

50
times ranked

1156
citing authors

#	ARTICLE	IF	CITATIONS
1	Autonomous Aerial Water Sampling. <i>Journal of Field Robotics</i> , 2015, 32, 1095-1113.	6.0	103
2	On crop height estimation with UAVs. , 2014, , .		89
3	Intercomparison of Small Unmanned Aircraft System (sUAS) Measurements for Atmospheric Science during the LAPSE-RATE Campaign. <i>Sensors</i> , 2019, 19, 2179.	3.8	88
4	Resonant wireless power transfer to ground sensors from a UAV. , 2012, , .		84
5	AMOUR V: A Hovering Energy Efficient Underwater Robot Capable of Dynamic Payloads. <i>International Journal of Robotics Research</i> , 2010, 29, 547-570.	8.5	60
6	Smokey comes of age: unmanned aerial systems for fire management. <i>Frontiers in Ecology and the Environment</i> , 2016, 14, 333-339.	4.0	42
7	Automatic live fingerlings counting using computer vision. <i>Computers and Electronics in Agriculture</i> , 2019, 167, 105015.	7.7	35
8	Characterising the spatial and temporal activities of free-ranging cows from GPS data. <i>Rangeland Journal</i> , 2012, 34, 149.	0.9	32
9	Charge selection algorithms for maximizing sensor network life with UAV-based limited wireless recharging. , 2013, , .		32
10	Self-assembling mobile linkages. <i>IEEE Robotics and Automation Magazine</i> , 2007, 14, 45-55.	2.0	30
11	A Drone by Any Other Name: Purposes, End-User Trustworthiness, and Framing, but Not Terminology, Affect Public Support for Drones. <i>IEEE Technology and Society Magazine</i> , 2018, 37, 80-91.	0.8	24
12	Using unmanned aerial vehicles to sample aquatic ecosystems. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 1021-1030.	2.0	23
13	Color-accurate underwater imaging using perceptual adaptive illumination. <i>Autonomous Robots</i> , 2011, 31, 285-296.	4.8	22
14	Obtaining the Thermal Structure of Lakes from the Air. <i>Water (Switzerland)</i> , 2015, 7, 6467-6482.	2.7	21
15	Extending Wireless Rechargeable Sensor Network Life without Full Knowledge. <i>Sensors</i> , 2017, 17, 1642.	3.8	18
16	Design and Evaluation of Sensor Housing for Boundary Layer Profiling Using Multirotors. <i>Sensors</i> , 2019, 19, 2481.	3.8	18
17	UAV Recharging Opportunities and Policies for Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , 2015, 11, 824260.	2.2	17
18	Environmental Reviews and Case Studies: Bringing Unmanned Aerial Systems Closer to the Environment. <i>Environmental Practice</i> , 2015, 17, 188-200.	0.3	15

#	ARTICLE	IF	CITATIONS
19	Inferring and monitoring invariants in robotic systems. <i>Autonomous Robots</i> , 2017, 41, 1027-1046.	4.8	15
20	Matching scale-space features in 1D panoramas. <i>Computer Vision and Image Understanding</i> , 2006, 103, 184-195.	4.7	13
21	On air-to-water radio communication between UAVs and water sensor networks. , 2015, , .		13
22	Fire-Aware Planning of Aerial Trajectories and Ignitions. , 2018, , .		12
23	How people make sense of drones used for atmospheric science (and other purposes): hopes, concerns, and recommendations. <i>Journal of Unmanned Vehicle Systems</i> , 2019, 7, 219-234.	1.2	11
24	UAS-Rx interface for mission planning, fire tracking, fire ignition, and real-time updating. , 2017, , .		10
25	Unmanned Aerial Auger for Underground Sensor Installation. , 2018, , .		10
26	Dimensional inconsistencies in code and ROS messages: A study of 5.9M lines of code. , 2017, , .		9
27	Sensing water properties at precise depths from the air. <i>Journal of Field Robotics</i> , 2018, 35, 1205-1221.	6.0	9
28	Reducing failure rates of robotic systems though inferred invariants monitoring. , 2013, , .		8
29	Surface classification for sensor deployment from UAV landings. , 2015, , .		8
30	UAV Based Wireless Charging of Sensor Networks Without Prior Knowledge. , 2018, , .		8
31	Towards Aerial Recovery of Parachute-Deployed Payloads. , 2018, , .		7
32	Investigation of Communicative Flight Paths for Small Unmanned Aerial Systems. , 2018, , .		7
33	Omni-directional hovercraft design as a foundation for MAV education. , 2012, , .		6
34	UAV Localization in Row Crops. <i>Journal of Field Robotics</i> , 2017, 34, 1275-1296.	6.0	6
35	Adaptive Decentralized Control of Mobile Underwater Sensor Networks and Robots for Modeling Underwater Phenomena. <i>Journal of Sensor and Actuator Networks</i> , 2014, 3, 113-149.	3.9	5
36	Co-Regulated Consensus of Cyber-Physical Resources in Multi-Agent Unmanned Aircraft Systems. <i>Electronics (Switzerland)</i> , 2019, 8, 569.	3.1	5

#	ARTICLE	IF	CITATIONS
37	University of Nebraska unmanned aerial system (UAS) profiling during the LAPSE-RATE field campaign. Earth System Science Data, 2021, 13, 2457-2470.	9.9	5
38	The waterbug sub-surface sampler: Design, control and analysis. , 2016, , .		4
39	Sensing Water Properties at Precise Depths from the Air. Springer Proceedings in Advanced Robotics, 2018, , 205-220.	1.3	4
40	Extending Endurance of Multicopters: The Current State-of-the-Art. , 2019, , .		4
41	Trajectory Selection for Power-over-Tether Atmospheric Sensing UAS. , 2021, , .		4
42	Co-Regulating Communication for Asynchronous Information Consensus. , 2018, , .		3
43	Freyja: A Full Multirotor System for Agile & Precise Outdoor Flights. , 2021, , .		3
44	Towards In-Flight Transfer of Payloads Between Multirotors. IEEE Robotics and Automation Letters, 2020, 5, 6201-6208.	5.1	2
45	In-Air Exchange of Small Payloads Between Multirotor Aerial Systems. Springer Proceedings in Advanced Robotics, 2020, , 511-523.	1.3	2
46	Online Soil Classification Using a UAS Sensor Emplacement System. Springer Proceedings in Advanced Robotics, 2021, , 174-184.	1.3	1
47	Autonomous, Long-Range, Sensor Emplacement Using Unmanned Aircraft Systems. , 2022, 2, 437-467.		0