

Felipe Gonzalez

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

90
papers

1,888
citations

23
h-index

41
g-index

101
ext. papers

2,459
ext. citations

3.7
avg, IF

5.28
L-index

#	Paper	IF	Citations
90	Predicting Canopy Chlorophyll Content in Sugarcane Crops Using Machine Learning Algorithms and Spectral Vegetation Indices Derived from UAV Multispectral Imagery. <i>Remote Sensing</i> , 2022 , 14, 1140	5	4
89	Drone-Based Autonomous Motion Planning System for Outdoor Environments under Object Detection Uncertainty. <i>Remote Sensing</i> , 2021 , 13, 4481	5	3
88	Incorporating Hierarchical Information for UAV based Semantic Mapping 2021 ,		1
87	LiDAR-based Computational Fluid Dynamics heat transfer models for bushfire conditions. <i>International Journal of Disaster Risk Reduction</i> , 2021 , 66, 102587	4.5	0
86	UAV Framework for Autonomous Onboard Navigation and People/Object Detection in Cluttered Indoor Environments. <i>Remote Sensing</i> , 2020 , 12, 3386	5	22
85	A Framework for Multiple Ground Target Finding and Inspection Using a Multirotor UAS. <i>Sensors</i> , 2020 , 20,	3.8	5
84	Unmanned Aerial Vehicle and Artificial Intelligence for Thermal Target Detection in Search and Rescue Applications 2020 ,		2
83	2020 ,		1
82	Towards Simulating Semantic Onboard UAV Navigation 2020 ,		1
81	Autonomous UAV Navigation for Active Perception of Targets in Uncertain and Cluttered Environments 2020 ,		6
80	A Review of Current Approaches for UAV Autonomous Mission Planning for Mars Biosignatures Detection 2020 ,		1
79	A Framework for Multi-Agent UAV Exploration and Target-Finding in GPS-Denied and Partially Observable Environments. <i>Sensors</i> , 2020 , 20,	3.8	5
78	Multi-UAV Target-Finding in Simulated Indoor Environments using Deep Reinforcement Learning 2020 ,		3
77	A Method for Evaluating and Selecting Suitable Hardware for Deployment of Embedded System on UAVs. <i>Sensors</i> , 2020 , 20,	3.8	2
76	A Deep Reinforcement Learning Framework for UAV Navigation in Indoor Environments 2019 ,		13
75	Characterization of the particle emission from a ship operating at sea using an unmanned aerial vehicle. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 691-702	4	19
74	Multiple Ground Target Finding and Action Using UAVs 2019 ,		2

73	A Framework for UAV Navigation and Exploration in GPS-Denied Environments 2019 ,		7
72	Using virtual reality and thermal imagery to improve statistical modelling of vulnerable and protected species. <i>PLoS ONE</i> , 2019 , 14, e0217809	3.7	4
71	UAV tracking of mobile target in occluded, cluttered and GPS-denied environments 2018 ,		4
70	A Novel Methodology for Improving Plant Pest Surveillance in Vineyards and Crops Using UAV-Based Hyperspectral and Spatial Data. <i>Sensors</i> , 2018 , 18,	3.8	95
69	UAVs and Machine Learning Revolutionising Invasive Grass and Vegetation Surveys in Remote Arid Lands. <i>Sensors</i> , 2018 , 18,	3.8	32
68	Aerial Mapping of Forests Affected by Pathogens Using UAVs, Hyperspectral Sensors, and Artificial Intelligence. <i>Sensors</i> , 2018 , 18,	3.8	64
67	UAVs, Hyperspectral Remote Sensing, and Machine Learning Revolutionizing Reef Monitoring. <i>Sensors</i> , 2018 , 18,	3.8	28
66	A Novel Approach for Invasive Weeds and Vegetation Surveys Using UAS and Artificial Intelligence 2018 ,		2
65	Design and Testing of a Recycled 3D Printed and Foldable Unmanned Aerial Vehicle for Remote Sensing 2018 ,		3
64	A Framework for Vision-Based Multiple Target Finding and Action Using Multirotor UAVs 2018 ,		4
63	Multi and hyperspectral UAV remote sensing: Grapevine phylloxera detection in vineyards 2018 ,		4
62	A UAV system for autonomous target detection and gas sensing 2017 ,		19
61	UAV tracking and following a ground target under motion and localisation uncertainty 2017 ,		7
60	Visual servoing of a quadrotor with suspended slung load for object detection and tracking 2017 ,		2
59	Autonomous UAV with vision based on-board decision making for remote sensing and precision agriculture 2017 ,		38
58	Determination of the vertical profile of particle number concentration adjacent to a motorway using an unmanned aerial vehicle. <i>Environmental Pollution</i> , 2017 , 230, 134-142	9.3	31
57	A Methodology to Monitor Airborne PM Dust Particles Using a Small Unmanned Aerial Vehicle. <i>Sensors</i> , 2017 , 17,	3.8	36
56	Towards the Automatic Detection of Pre-Existing Termite Mounds through UAS and Hyperspectral Imagery. <i>Sensors</i> , 2017 , 17,	3.8	5

55	Vision-Based Target Finding and Inspection of a Ground Target Using a Multirotor UAV System. <i>Sensors</i> , 2017 , 17,	3.8	21
54	MPC controlled multirotor with suspended slung Load: System architecture and visual load detection 2016 ,		8
53	Autonomous UAVs wildlife detection using thermal imaging, predictive navigation and computer vision 2016 ,		22
52	Enabling UAV Navigation with Sensor and Environmental Uncertainty in Cluttered and GPS-Denied Environments. <i>Sensors</i> , 2016 , 16,	3.8	24
51	Unmanned Aerial Vehicles (UAVs) and Artificial Intelligence Revolutionizing Wildlife Monitoring and Conservation. <i>Sensors</i> , 2016 , 16,	3.8	213
50	An Overview of Small Unmanned Aerial Vehicles for Air Quality Measurements: Present Applications and Future Prospectives. <i>Sensors</i> , 2016 , 16,	3.8	180
49	Development and Validation of a UAV Based System for Air Pollution Measurements. <i>Sensors</i> , 2016 , 16,	3.8	94
48	2016 ,		13
47	UAV based target finding and tracking in GPS-denied and cluttered environments 2016 ,		13
46	Modelling, Simulation and Flight Test of a Model Predictive Controlled Multirotor with Heavy Slung Load. <i>IFAC-PapersOnLine</i> , 2016 , 49, 182-187	0.7	16
45	Design and flight testing of a bio-inspired plume tracking algorithm for unmanned aerial vehicles 2016 ,		1
44	Uncertainty based online planning for UAV target finding in cluttered and GPS-denied environments 2016 ,		9
43	Development of a robust framework for an outdoor mobile manipulation UAV 2016 ,		6
42	Multi-rotor with suspended load: System Dynamics and Control Toolbox 2015 ,		7
41	Development and integration of a solar powered unmanned aerial vehicle and a wireless sensor network to monitor greenhouse gases. <i>Sensors</i> , 2015 , 15, 4072-96	3.8	87
40	Design and flight testing of an integrated solar powered UAV and WSN for remote gas sensing 2015 ,		13
39	Increasing Autonomy Transparency through capability communication in multiple heterogeneous UAV management 2015 ,		9
38	An Automated Emergency Landing System for Fixed-Wing Aircraft: Planning and Control. <i>Journal of Field Robotics</i> , 2015 , 32, 1114-1140	6.7	9

37	Towards the Development of a Low Cost Airborne Sensing System to Monitor Dust Particles after Blasting at Open-Pit Mine Sites. <i>Sensors</i> , 2015 , 15, 19667-87	3.8	83
36	A Dynamic Navigation Model for Unmanned Aircraft Systems and an Application to Autonomous Front-On Environmental Sensing and Photography Using Low-Cost Sensor Systems. <i>Sensors</i> , 2015 , 15, 21537-53	3.8	6
35	Enabling Aircraft Emergency Landings Using Active Visual Site Detection. <i>Springer Tracts in Advanced Robotics</i> , 2015 , 167-181	0.5	11
34	Multi-Objective Optimization Model Test Case Problems. <i>Intelligent Systems, Control and Automation: Science and Engineering</i> , 2015 , 123-194	0.6	
33	2014 ,		2
32	Nonlinear Actuator Fault Detection for Small-Scale UASs. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2014 , 73, 557-572	2.9	0
31	Recursive Actuator Fault Detection and Diagnosis for Emergency Landing of UASs. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 2495-2502		2
30	Nonlinear Model Predictive Control for a multi-rotor with heavy slung load 2014 ,		12
29	FPGA Implementation of an Evolutionary Algorithm for Autonomous Unmanned Aerial Vehicle On-Board Path Planning. <i>IEEE Transactions on Evolutionary Computation</i> , 2013 , 17, 272-281	15.6	51
28	Wind-energy based path planning for Unmanned Aerial Vehicles using Markov Decision Processes 2013 ,		41
27	A UKF-based estimation strategy for actuator fault detection of UASs 2013 ,		5
26	A review of optimization techniques used in the design of fibre composite structures for civil engineering applications. <i>Materials & Design</i> , 2012 , 33, 534-544		113
25	On parallel hybrid-electric propulsion system for unmanned aerial vehicles. <i>Progress in Aerospace Sciences</i> , 2012 , 51, 1-17	8.8	77
24	Robust multidisciplinary UAS design optimisation. <i>Structural and Multidisciplinary Optimization</i> , 2012 , 45, 433-450	3.6	7
23	Extending persistent monitoring by combining ocean models and Markov Decision Processes 2012 ,		6
22	2012 ,		5
21	Advanced Computational Intelligence System for Inverse Aeronautical Design Optimisation 2011 ,		3
20	. <i>IEEE Transactions on Evolutionary Computation</i> , 2011 , 15, 133-150	15.6	32

19	Hybrid-Game Strategies for multi-objective design optimization in engineering. <i>Computers and Fluids</i> , 2011 , 47, 189-204	2.8	26
18	Development of an autonomous unmanned aerial system to collect time-stamped samples from the atmosphere and localize potential pathogen sources. <i>Journal of Field Robotics</i> , 2011 , 28, 961-976	6.7	24
17	Assessment of the suitability of public mobile data networks for aircraft telemetry and control purposes. <i>Progress in Aerospace Sciences</i> , 2011 , 47, 240-248	8.8	4
16	Double-shock control bump design optimization using hybridized evolutionary algorithms. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2011 , 225, 1175-1192	0.9	5
15	Active Transonic Aerofoil Design Optimization Using Robust Multiobjective Evolutionary Algorithms. <i>Journal of Aircraft</i> , 2011 , 48, 1084-1094	1.6	24
14	UAS Mission Path Planning System (MPPS) Using Hybrid-Game Coupled to Multi-Objective Optimizer. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2010 , 132,	1.6	16
13	Advanced robust design optimization of FRP sandwich floor panels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 10, 012182	0.4	2
12	Reduction environmental effects of civil aircraft through multi-objective flight plan optimisation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 10, 012197	0.4	
11	Fast reconstruction of aerodynamic shapes using evolutionary algorithms and virtual nash strategies in a CFD design environment. <i>Journal of Computational and Applied Mathematics</i> , 2009 , 232, 61-71	2.4	15
10	UAS Mission Path Planning System (MPPS) Using Hybrid-Game Coupled to Multi-Objective Optimiser 2009 ,		4
9	New Aerospace Design Challenges: Robust Multidisciplinary Evolutionary Techniques 2009 , 343-358		
8	Evolutionary Optimisation Methods with Uncertainty for Modern Multidisciplinary Design in Aeronautical Engineering. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2009 , 271-284	0.3	9
7	Custom power systems and software platforms for wind farms under voltage dips situations 2008 ,		3
6	Computational Fluid Dynamics Analysis of Externally Blown Flap Configuration for Transport Aircraft. <i>Journal of Aircraft</i> , 2008 , 45, 172-184	1.6	6
5	Robust evolutionary algorithms for UAV/UCAV aerodynamic and RCS design optimisation. <i>Computers and Fluids</i> , 2008 , 37, 547-564	2.8	25
4	Robust design optimisation using multi-objective evolutionary algorithms. <i>Computers and Fluids</i> , 2008 , 37, 565-583	2.8	35
3	. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2007 , 22, 29-44	2.4	4
2	Evolutionary methods for multidisciplinary optimization applied to the design of UAV systems \square <i>Engineering Optimization</i> , 2007 , 39, 773-795	2	2

- 1 Single and multi-objective UAV aerofoil optimisation via hierarchical asynchronous parallel evolutionary algorithm. *Aeronautical Journal*, **2006**, 110, 659-672 0.9 6