Felipe Gonzlez

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#	Paper	IF	Citations
90	Unmanned Aerial Vehicles (UAVs) and Artificial Intelligence Revolutionizing Wildlife Monitoring and Conservation. <i>Sensors</i> , 2016 , 16,	3.8	213
89	An Overview of Small Unmanned Aerial Vehicles for Air Quality Measurements: Present Applications and Future Prospectives. <i>Sensors</i> , 2016 , 16,	3.8	180
88	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
87	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
86	Development and Validation of a UAV Based System for Air Pollution Measurements. <i>Sensors</i> , 2016 , 16,	3.8	94
85	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
84	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
83	On parallel hybrid-electric propulsion system for unmanned aerial vehicles. <i>Progress in Aerospace Sciences</i> , 2012 , 51, 1-17	8.8	77
82	Aerial Mapping of Forests Affected by Pathogens Using UAVs, Hyperspectral Sensors, and Artificial Intelligence. <i>Sensors</i> , 2018 , 18,	3.8	64
81	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
80	Wind-energy based path planning for Unmanned Aerial Vehicles using Markov Decision Processes 2013 ,		41
79	Autonomous UAV with vision based on-board decision making for remote sensing and precision agriculture 2017 ,		38
78	A Methodology to Monitor Airborne PM Dust Particles Using a Small Unmanned Aerial Vehicle. <i>Sensors</i> , 2017 , 17,	3.8	36
77	Robust design optimisation using multi-objective evolutionary algorithms. <i>Computers and Fluids</i> , 2008 , 37, 565-583	2.8	35
76	UAVs and Machine Learning Revolutionising Invasive Grass and Vegetation Surveys in Remote Arid Lands. <i>Sensors</i> , 2018 , 18,	3.8	32
75	. IEEE Transactions on Evolutionary Computation, 2011 , 15, 133-150	15.6	32
74	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

(2016-2018)

73	UAVs, Hyperspectral Remote Sensing, and Machine Learning Revolutionizing Reef Monitoring. <i>Sensors</i> , 2018 , 18,	3.8	28	
72	Hybrid-Game Strategies for multi-objective design optimization in engineering. <i>Computers and Fluids</i> , 2011 , 47, 189-204	2.8	26	
71	Robust evolutionary algorithms for UAV/UCAV aerodynamic and RCS design optimisation. <i>Computers and Fluids</i> , 2008 , 37, 547-564	2.8	25	
70	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	
69	Active Transonic Aerofoil Design Optimization Using Robust Multiobjective Evolutionary Algorithms. <i>Journal of Aircraft</i> , 2011 , 48, 1084-1094	1.6	24	
68	Enabling UAV Navigation with Sensor and Environmental Uncertainty in Cluttered and GPS-Denied Environments. <i>Sensors</i> , 2016 , 16,	3.8	24	
67	UAV Framework for Autonomous Onboard Navigation and People/Object Detection in Cluttered Indoor Environments. <i>Remote Sensing</i> , 2020 , 12, 3386	5	22	
66	Autonomous UAVs wildlife detection using thermal imaging, predictive navigation and computer vision 2016 ,		22	
65	Vision-Based Target Finding and Inspection of a Ground Target Using a Multirotor UAV System. <i>Sensors</i> , 2017 , 17,	3.8	21	
64	A UAV system for autonomous target detection and gas sensing 2017 ,		19	
63	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	
62	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	
61	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	
60	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	
59	A Deep Reinforcement Learning Framework for UAV Navigation in Indoor Environments 2019,		13	
58	Design and flight testing of an integrated solar powered UAV and WSN for remote gas sensing 2015 ,		13	
57	2016,		13	
56	UAV based target finding and tracking in GPS-denied and cluttered environments 2016 ,		13	

55	Nonlinear Model Predictive Control for a multi-rotor with heavy slung load 2014 ,		12
54	Enabling Aircraft Emergency Landings Using Active Visual Site Detection. <i>Springer Tracts in Advanced Robotics</i> , 2015 , 167-181).5	11
53	Increasing Autonomy Transparency through capability communication in multiple heterogeneous UAV management 2015 ,		9
52	An Automated Emergency Landing System for Fixed-Wing Aircraft: Planning and Control. <i>Journal of Field Robotics</i> , 2015 , 32, 1114-1140	5·7	9
51	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
50	Uncertainty based online planning for UAV target finding in cluttered and GPS-denied environments 2016 ,		9
49	MPC controlled multirotor with suspended slung Load: System architecture and visual load detection 2016 ,		8
48	UAV tracking and following a ground target under motion and localisation uncertainty 2017,		7
47	Multi-rotor with suspended load: System Dynamics and Control Toolbox 2015 ,		7
46	A Framework for UAV Navigation and Exploration in GPS-Denied Environments 2019,		7
46 45	Robust multidisciplinary UAS design optimisation. Structural and Multidisciplinary Optimization	6	7
	Robust multidisciplinary UAS design optimisation. <i>Structural and Multidisciplinary Optimization</i> , 2012 , 45, 433-450 A Dynamic Navigation Model for Unmanned Aircraft Systems and an Application to Autonomous	,.6 ,.8	
45	Robust multidisciplinary UAS design optimisation. <i>Structural and Multidisciplinary Optimization</i> , 2012 , 45, 433-450 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 , 3	2	7
45 44	Robust multidisciplinary UAS design optimisation. <i>Structural and Multidisciplinary Optimization</i> , 2012 , 45, 433-450 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 Extending persistent monitoring by combining ocean models and Markov Decision Processes 2012 ,	2	7
45 44 43	Robust multidisciplinary UAS design optimisation. Structural and Multidisciplinary Optimization, 2012, 45, 433-450 A Dynamic Navigation Model for Unmanned Aircraft Systems and an Application to Autonomous Front-On Environmental Sensing and Photography Using Low-Cost Sensor Systems. Sensors, 2015, 15, 21537-53 Extending persistent monitoring by combining ocean models and Markov Decision Processes 2012, Computational Fluid Dynamics Analysis of Externally Blown Flap Configuration for Transport Aircraft. Journal of Aircraft, 2008, 45, 172-184	8	7 6 6
45 44 43 42	Robust multidisciplinary UAS design optimisation. Structural and Multidisciplinary Optimization, 2012, 45, 433-450 A Dynamic Navigation Model for Unmanned Aircraft Systems and an Application to Autonomous Front-On Environmental Sensing and Photography Using Low-Cost Sensor Systems. Sensors, 2015, 15, 21537-53 Extending persistent monitoring by combining ocean models and Markov Decision Processes 2012, Computational Fluid Dynamics Analysis of Externally Blown Flap Configuration for Transport Aircraft. Journal of Aircraft, 2008, 45, 172-184 Single and multiBbjective UAV aerofoil optimisation via hierarchical asynchronous parallel	8	7 6 6
45 44 43 42 41	Robust multidisciplinary UAS design optimisation. Structural and Multidisciplinary Optimization, 2012, 45, 433-450 A Dynamic Navigation Model for Unmanned Aircraft Systems and an Application to Autonomous Front-On Environmental Sensing and Photography Using Low-Cost Sensor Systems. Sensors, 2015, 15, 21537-53 Extending persistent monitoring by combining ocean models and Markov Decision Processes 2012, Computational Fluid Dynamics Analysis of Externally Blown Flap Configuration for Transport Aircraft. Journal of Aircraft, 2008, 45, 172-184 Single and multibijective UAV aerofoil optimisation via hierarchical asynchronous parallel evolutionary algorithm. Aeronautical Journal, 2006, 110, 659-672 Autonomous UAV Navigation for Active Perception of Targets in Uncertain and Cluttered	8	76666

37	2012,		5
36	A UKF-based estimation strategy for actuator fault detection of UASs 2013 ,		5
35	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
34	A Framework for Multiple Ground Target Finding and Inspection Using a Multirotor UAS. <i>Sensors</i> , 2020 , 20,	3.8	5
33	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
32	UAV tracking of mobile target in occluded, cluttered and GPS-denied environments 2018,		4
31	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
30	UAS Mission Path Planning System (MPPS) Using Hybrid-Game Coupled to Multi-Objective Optimiser 2009 ,		4
29	. IEEE Aerospace and Electronic Systems Magazine, 2007 , 22, 29-44	2.4	4
28	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
27	A Framework for Vision-Based Multiple Target Finding and Action Using Multirotor UAVs 2018,		4
26	Multi and hyperspectral UAV remote sensing: Grapevine phylloxera detection in vineyards 2018,		4
25	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
24	Advanced Computational Intelligence System for Inverse Aeronautical Design Optimisation 2011,		3
23	Custom power systems and software platforms for wind farms under voltage dips situations 2008,		3
22	Drone-Based Autonomous Motion Planning System for Outdoor Environments under Object Detection Uncertainty. <i>Remote Sensing</i> , 2021 , 13, 4481	5	3
21	Multi-UAV Target-Finding in Simulated Indoor Environments using Deep Reinforcement Learning 2020 ,		3
20	Design and Testing of a Recycled 3D Printed and Foldable Unmanned Aerial Vehicle for Remote Sensing 2018 ,		3

19	Visual servoing of a quadrotor with suspended slung load for object detection and tracking 2017,		2
18	Multiple Ground Target Finding and Action Using UAVs 2019,		2
17	2014,		2
16	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
15	Advanced robust design optimization of FRP sandwich floor panels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 10, 012182	0.4	2
14	Evolutionary methods for multidisciplinary optimization applied to the design of UAV systems Engineering Optimization, 2007, 39, 773-795	2	2
13	Unmanned Aerial Vehicle and Artificial Intelligence for Thermal Target Detection in Search and Rescue Applications 2020 ,		2
12	A Method for Evaluating and Selecting Suitable Hardware for Deployment of Embedded System on UAVs. <i>Sensors</i> , 2020 , 20,	3.8	2
11	A Novel Approach for Invasive Weeds and Vegetation Surveys Using UAS and Artificial Intelligence 2018 ,		2
10	2020,		1
10	Towards Simulating Semantic Onboard UAV Navigation 2020,		1
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9 8 7	Towards Simulating Semantic Onboard UAV Navigation 2020, A Review of Current Approaches for UAV Autonomous Mission Planning for Mars Biosignatures Detection 2020, Incorporating Hierarchical Information for UAV based Semantic Mapping 2021, Design and flight testing of a bio-inspired plume tracking algorithm for unmanned aerial vehicles	2.9	1 1
9 8 7 6	Towards Simulating Semantic Onboard UAV Navigation 2020, A Review of Current Approaches for UAV Autonomous Mission Planning for Mars Biosignatures Detection 2020, Incorporating Hierarchical Information for UAV based Semantic Mapping 2021, Design and flight testing of a bio-inspired plume tracking algorithm for unmanned aerial vehicles 2016, Nonlinear Actuator Fault Detection for Small-Scale UASs. Journal of Intelligent and Robotic Systems:	2.9 4.5	1 1 1
9 8 7 6	Towards Simulating Semantic Onboard UAV Navigation 2020, A Review of Current Approaches for UAV Autonomous Mission Planning for Mars Biosignatures Detection 2020, Incorporating Hierarchical Information for UAV based Semantic Mapping 2021, Design and flight testing of a bio-inspired plume tracking algorithm for unmanned aerial vehicles 2016, Nonlinear Actuator Fault Detection for Small-Scale UASs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 73, 557-572 LiDAR-based Computational Fluid Dynamics heat transfer models for bushfire conditions.		1 1 1 0

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