

# Matthew Coombes

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4512618/publications.pdf>

Version: 2024-02-01

23  
papers

500  
citations

1039406

9  
h-index

1125271

13  
g-index

24  
all docs

24  
docs citations

24  
times ranked

539  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Algorithm for Quantized Particle Filtering With Multiple Degrading Sensors: Degradation Estimation and Target Tracking. IEEE Transactions on Industrial Informatics, 2023, 19, 5830-5838.	7.2	6
2	Economic Model-Predictive Control for Aircraft Forced Landing: Framework and Two-Level Implementation. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 1119-1132.	2.6	5
3	Spectral analysis and mapping of blackgrass weed by leveraging machine learning and UAV multispectral imagery. Computers and Electronics in Agriculture, 2022, 192, 106621.	3.7	27
4	Spraying Coverage Path Planning for Agriculture Unmanned Aerial Vehicles. , 2021, , .		5
5	Decomposition-based mission planning for fixed-wing UAVs surveying in wind. Journal of Field Robotics, 2020, 37, 440-465.	3.2	19
6	Machine Learning-Based Crop Drought Mapping System by UAV Remote Sensing RGB Imagery. Unmanned Systems, 2020, 08, 71-83.	2.7	36
7	Flight Testing Boustrophedon Coverage Path Planning for Fixed Wing UAVs in Wind. , 2019, , .		5
8	Aerodrome situational awareness of unmanned aircraft: an integrated self-learning approach with Bayesian network semantic segmentation. IET Intelligent Transport Systems, 2018, 12, 868-874.	1.7	3
9	Wheat Drought Assessment by Remote Sensing Imagery Using Unmanned Aerial Vehicle. , 2018, , .		4
10	Fixed Wing UAV Survey Coverage Path Planning in Wind for Improving Existing Ground Control Station Software. , 2018, , .		8
11	Wheat yellow rust monitoring by learning from multispectral UAV aerial imagery. Computers and Electronics in Agriculture, 2018, 155, 157-166.	3.7	180
12	Optimal Polygon Decomposition for UAV Survey Coverage Path Planning in Wind. Sensors, 2018, 18, 2132.	2.1	45
13	Landing Site Reachability in a Forced Landing of Unmanned Aircraft in Wind. Journal of Aircraft, 2017, 54, 1415-1427.	1.7	19
14	Boustrophedon coverage path planning for UAV aerial surveys in wind. , 2017, , .		35
15	Machine Vision for UAS Ground Operations. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 88, 527-546.	2.0	9
16	Colour based semantic image segmentation and classification for unmanned ground operations. , 2016, , .		5
17	Unmanned ground operations using semantic image segmentation through a Bayesian network. , 2016, , .		2
18	Situation awareness for UAV operating in terminal areas using bearing-only observations and circuit flight rules. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
19	Enhanced situation awareness for unmanned aerial vehicle operating in terminal areas with circuit flight rules. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 1683-1693.	0.7	7
20	Online optimisation-based backstepping control design with application to quadrotor. IET Control Theory and Applications, 2016, 10, 1601-1611.	1.2	39
21	Reachability analysis of landing sites for forced landing of a UAS in wind using trochoidal turn paths. , 2015, , .		4
22	Reachability Analysis of Landing Sites for Forced Landing of a UAS. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 73, 635-653.	2.0	30
23	Reachability analysis of landing sites for forced landing of a UAS. , 2013, , .		5