Swee King Phang

List of Publications by Year
in descending order

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46 papers	436 citations	1170033 9 h-index	1113639 15 g-index
46 all docs	46 docs citations	46 times ranked	383 citing authors

#	Article	IF	Citations
1	COAA* â€" An Optimized Obstacle Avoidance and Navigational Algorithm for UAVs Operating in Partially Observable 2D Environments. Unmanned Systems, 2022, 10, 159-174.	2.7	3
2	Design and Implementation of an Agricultural UAV With Optimized Spraying Mechanism. MATEC Web of Conferences, 2021, 335, 02002.	0.1	3
3	Wi-Fi CSI Based Human Sign Language Recognition using LSTM Network. , 2021, , .		1
4	Development of simultaneous localization and mapping algorithm using optical sensor for multi-rotor UAV. AIP Conference Proceedings, 2020, , .	0.3	3
5	DF-WiSLR: Device-Free Wi-Fi-based Sign Language Recognition. Pervasive and Mobile Computing, 2020, 69, 101289.	2.1	12
6	Improving aerodynamic efficiency of a Skywalker drone. AIP Conference Proceedings, 2020, , .	0.3	1
7	Classification of meditation states through EEG: A method using discrete wavelet transform. AIP Conference Proceedings, 2020, , .	0.3	7
8	Development of a hybrid vertical take-off and landing unmanned aerial vehicle for maritime application. AIP Conference Proceedings, 2020, , .	0.3	0
9	Computer vision algorithm development for classification of palm fruit ripeness. AIP Conference Proceedings, 2020, , .	0.3	2
10	Optimized autonomous UAV design with obstacle avoidance capability. AIP Conference Proceedings, 2020, , .	0.3	3
11	Sign language gesture recognition with bispectrum features using SVM. AIP Conference Proceedings, 2020, , .	0.3	1
12	Small scale autonomous watercraft for aquatic mapping. AIP Conference Proceedings, 2020, , .	0.3	0
13	Optimized autonomous UAV design for duration enhancement. AIP Conference Proceedings, 2020, , .	0.3	1
14	Development of low computational power vision tracking algorithm on embedded system. AIP Conference Proceedings, 2019, , .	0.3	0
15	Low cost haptic and motion based mixed reality peripheral interface. AIP Conference Proceedings, 2019, , .	0.3	0
16	Higher Order Feature Extraction and Selection for Robust Human Gesture Recognition using CSI of COTS Wi-Fi Devices. Sensors, 2019, 19, 2959.	2.1	9
17	Design, Dynamics Modelling and Control of a H-Shape Multi-rotor System for Indoor Navigation. , 2019, , .		2
18	Trajectory Planning for Improving Vision-Based Target Geolocation Performance Using a Quad-Rotor UAV. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 2382-2394.	2.6	17

#	Article	IF	Citations
19	Vision-Based Target Three-Dimensional Geolocation Using Unmanned Aerial Vehicles. IEEE Transactions on Industrial Electronics, 2018, 65, 8052-8061.	5.2	38
20	High-Precision Multi-UAV Teaming for the First Outdoor Night Show in Singapore. Unmanned Systems, 2018, 06, 39-65.	2.7	21
21	Application of Steady-State Integral Proportional Integral Controller for Inner Dynamics Control Loop of Multi-rotor UAVs. , 2018, , .		3
22	Autonomous Ledge Detection and Landing with Multi-rotor UAV. , 2018, , .		1
23	Nonlinear Flight Control Design for Maneuvering Flight of Quadrotors in High Speed and Large Acceleration. , 2018, , .		5
24	Real-Time Landing Spot Detection and Pose Estimation on Thermal Images Using Convolutional Neural Networks. , 2018, , .		2
25	Vision-aided tracking of a moving ground vehicle with a hybrid UAV. , 2017, , .		6
26	System integration of a vision-guided UAV for autonomous landing on moving platform. , 2016, , .		25
27	Search and Rescue Using Multiple Drones in Post-Disaster Situation. Unmanned Systems, 2016, 04, 83-96.	2.7	18
28	Drones for cooperative search and rescue in post-disaster situation. , 2015, , .		24
29	Systems design and implementation with jerk-optimized trajectory generation for UAV calligraphy. Mechatronics, 2015, 30, 65-75.	2.0	26
30	Development of an Unmanned Helicopter for Vertical Replenishment. Unmanned Systems, 2015, 03, 63-87.	2.7	14
31	Systematic Design Methodology and Construction of Micro Aerial Quadrotor Vehicles. , 2015, , 181-206.		7
32	Systematic Design and Implementation of a Micro Unmanned Quadrotor System. Unmanned Systems, 2014, 02, 121-141.	2.7	31
33	Explicit model identification and control of a micro aerial vehicle. , 2014, , .		5
34	UAV calligraphy. , 2014, , .		3
35	Guidance, navigation and control of an unmanned helicopter for automatic cargo transportation. , 2014, , .		16
36	An efficient UAV navigation solution for confined but partially known indoor environments. , 2014, , .		17

#	Article	IF	Citations
37	A mono-camera and scanning laser range finder based UAV indoor navigation system. , 2013, , .		27
38	Development of an Unmanned Coaxial Rotorcraft for the DARPA UAVForge Challenge. Unmanned Systems, 2013, 01, 211-245.	2.7	18
39	Platform design and mathematical modeling of an ultralight quadrotor micro aerial vehicle. , 2013, , .		12
40	Development of an Unconventional Unmanned Coaxial Rotorcraft: GremLion. Lecture Notes in Computer Science, 2013, , 120-129.	1.0	0
41	Formation flight of unmanned rotorcraft based on robust and perfect tracking approach. , 2012, , .		3
42	Nonlinear modeling of a miniature fixed-pitch coaxial UAV. , 2012, , .		4
43	Design and mathematical modeling of a 4-standard-propeller (4SP) quadrotor. , 2012, , .		29
44	DESIGN AND CONSTRUCTION METHODOLOGY OF AN INDOOR UAV SYSTEM WITH EMBEDDED VISION. Control and Intelligent Systems, 2012, 40, .	0.3	4
45	Autonomous Mini-UAV for indoor flight with embedded on-board vision processing as navigation system. , 2010, , .		5
46	System Integration of a Vision-Guided UAV for Autonomous Tracking on Moving Platform in Low Illumination Condition. , 0, , .		7