Iván F Mondragón Bernal

List of Publications by Year
in descending order

44 papers	953 citations	567281 15 h-index	552781 26 g-index
44 all docs	44 docs citations	44 times ranked	923 citing authors

#	Article	IF	Citations
1	Visual 3-D SLAM from UAVs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2009, 55, 299-321.	3.4	123
2	Computer Vision Onboard UAVs for Civilian Tasks. Journal of Intelligent and Robotic Systems: Theory and Applications, 2009, 54, 105-135.	3.4	65
3	On-board and Ground Visual Pose Estimation Techniques for UAV Control. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 61, 301-320.	3.4	56
4	Unmanned aerial vehicles UAVs attitude, height, motion estimation and control using visual systems. Autonomous Robots, 2010, 29, 17-34.	4.8	53
5	High-Throughput Biomass Estimation in Rice Crops Using UAV Multispectral Imagery. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 96, 573-589.	3.4	51
6	EMG-driven hand model based on the classification of individual finger movements. Biomedical Signal Processing and Control, 2020, 58, 101834.	5.7	49
7	3D pose estimation based on planar object tracking for UAVs control. , 2010, , .		48
8	Omnidirectional vision applied to Unmanned Aerial Vehicles (UAVs) attitude and heading estimation. Robotics and Autonomous Systems, 2010, 58, 809-819.	5.1	44
9	Visual Model Feature Tracking For UAV Control. , 2007, , .		37
10	Multispectral mapping in agriculture: Terrain mosaic using an autonomous quadcopter UAV. , 2016, , .		34
11	COLIBRI: A vision-Guided UAV for Surveillance and Visual Inspection. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	33
12	A General Purpose Configurable Controller for Indoors and Outdoors GPS-Denied Navigation for Multirotor Unmanned Aerial Vehicles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 73, 387-400.	3.4	33
13	Trinocular ground system to control UAVs. , 2009, , .		28
14	Geo-Mapping and Visual Stitching to Support Landmine Detection Using a Low-Cost UAV. International Journal of Advanced Robotic Systems, 2015, 12, 125.	2.1	28
15	Myoelectric pattern recognition of hand motions for stroke rehabilitation. Biomedical Signal Processing and Control, 2020, 57, 101737.	5.7	28
16	Estimation of Nitrogen in Rice Crops from UAV-Captured Images. Remote Sensing, 2020, 12, 3396.	4.0	23
17	Fuzzy controller for UAV-landing task using 3D-position visual estimation. , 2010, , .		22
18	Onboard visual-based navigation system for power line following with UAV. International Journal of Advanced Robotic Systems, 2018, 15, 172988141876345.	2.1	19

#	Article	IF	Citations
19	A pan-tilt camera Fuzzy vision controller on an unmanned aerial vehicle. , 2009, , .		17
20	An Immersive Virtual Reality Training Game for Power Substations Evaluated in Terms of Usability and Engagement. Applied Sciences (Switzerland), 2022, 12, 711.	2.5	17
21	Assist-As-Needed Exoskeleton for Hand Joint Rehabilitation Based on Muscle Effort Detection. Sensors, 2021, 21, 4372.	3.8	16
22	3D object following based on visual information for Unmanned Aerial Vehicles. , 2011, , .		15
23	Real-time transmission tower detection from video based on a feature descriptor. IET Computer Vision, 2017, 11, 33-42.	2.0	14
24	A Hierarchical Tracking Strategy for Vision-Based Applications On-Board UAVs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 72, 517-539.	3.4	13
25	A novel NIR-image segmentation method for the precise estimation of above-ground biomass in rice crops. PLoS ONE, 2020, 15, e0239591.	2.5	13
26	HMPMR strategy for real-time tracking in aerial images, using direct methods. Machine Vision and Applications, 2014, 25, 1283-1308.	2.7	10
27	A visual AGV-urban car using Fuzzy control. , 2011, , .		9
28	Computer Vision Onboard UAVs for Civilian Tasks. , 2008, , 105-135.		8
29	A general purpose configurable navigation controller for micro aerial multirotor vehicles. , 2013, , .		8
30	EMG-based adaptive trajectory generation for an exoskeleton model during hand rehabilitation exercises. , 2020, , .		8
31	Autonomous Landing of an Unmanned Aerial Vehicle using Image-Based Fuzzy Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 79-86.	0.4	6
32	STEREO VISUAL SYSTEM FOR AUTONOMOUS AIR VEHICLE NAVIGATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 203-208.	0.4	5
33	Novel Feature-Extraction Methods for the Estimation of Above-Ground Biomass in Rice Crops. Sensors, 2021, 21, 4369.	3.8	5
34	Indoor mapping using SLAM for applications in Flexible Manufacturing Systems. , 2015, , .		4
35	Visual based navigation for power line inspection by using virtual environments. Proceedings of SPIE, 2015, , .	0.8	2
36	Â3D-printed pediatric temporal bone models for surgical training: a patient-specific and low-cost alternative. Journal of 3D Printing in Medicine, 2019, 3, 135-143.	2.0	2

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37	Velocity modulation assistance for stroke rehabilitation based on EMG muscular condition. , 2020, , .		2
38	On-board and Ground Visual Pose Estimation Techniques for UAV Control. , 2010, , 301-320.		2
39	Aerial Identification of Amazonian Palms in High-Density Forest Using Deep Learning. Forests, 2022, 13, 655.	2.1	2
40	Floor Optical Flow Based Navigation Controller for Multirotor Aerial Vehicles. Advances in Intelligent Systems and Computing, 2014, , 91-106.	0.6	1
41	AI-driven maturity stage identification of Amazonian fruits. IEEE Latin America Transactions, 2021, 19, 1383-1390.	1.6	0
42	Vision Based Control for Micro Aerial Vehicles: Application to Sense and Avoid. Studies in Computational Intelligence, 2013, , 127-141.	0.9	0
43	Autonomous Guided Car Using a Fuzzy Controller. Studies in Computational Intelligence, 2013, , 37-55.	0.9	0
44	Optimal Deployment of WSN Nodes for Crop Monitoring Based on Geostatistical Interpolations. Plants, 2022, 11, 1636.	3.5	0