# IvÃ¡n F MondragÃ³n Bernal

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | 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 |
| 2 | Aerial Identification of Amazonian Palms in High-Density Forest Using Deep Learning. Forests, 2022, 13, 655. | 2.1 | 2 |
| 3 | Optimal Deployment of WSN Nodes for Crop Monitoring Based on Geostatistical Interpolations. Plants, 2022, 11, 1636. | 3.5 | 0 |
| 4 | Novel Feature-Extraction Methods for the Estimation of Above-Ground Biomass in Rice Crops. Sensors, 2021, 21, 4369. | 3.8 | 5 |
| 5 | Assist-As-Needed Exoskeleton for Hand Joint Rehabilitation Based on Muscle Effort Detection. Sensors, 2021, 21, 4372. | 3.8 | 16 |
| 6 | AI-driven maturity stage identification of Amazonian fruits. IEEE Latin America Transactions, 2021, 19, 1383-1390. | 1.6 | 0 |
| 7 | Myoelectric pattern recognition of hand motions for stroke rehabilitation. Biomedical Signal Processing and Control, 2020, 57, 101737. | 5.7 | 28 |
| 8 | 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 |
| 9 | Velocity modulation assistance for stroke rehabilitation based on EMG muscular condition. , 2020, , . | | 2 |
| 10 | EMG-based adaptive trajectory generation for an exoskeleton model during hand rehabilitation exercises. , 2020, , . | | 8 |
| 11 | Estimation of Nitrogen in Rice Crops from UAV-Captured Images. Remote Sensing, 2020, 12, 3396. | 4.0 | 23 |
| 12 | EMG-driven hand model based on the classification of individual finger movements. Biomedical Signal Processing and Control, 2020, 58, 101834. | 5.7 | 49 |
| 13 | 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 |
| 14 | 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 |
| 15 | Onboard visual-based navigation system for power line following with UAV. International Journal of Advanced Robotic Systems, 2018, 15, 172988141876345. | 2.1 | 19 |
| 16 | Realâ€time transmission tower detection from video based on a feature descriptor. IET Computer Vision, 2017, 11, 33-42. | 2.0 | 14 |
| 17 | Multispectral mapping in agriculture: Terrain mosaic using an autonomous quadcopter UAV. , 2016, , . | | 34 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Visual based navigation for power line inspection by using virtual environments. Proceedings of SPIE, 2015, , . | 0.8 | 2 |
| 20 | Indoor mapping using SLAM for applications in Flexible Manufacturing Systems. , 2015, , . | | 4 |
| 21 | 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 |
| 22 | HMPMR strategy for real-time tracking in aerial images, using direct methods. Machine Vision and Applications, 2014, 25, 1283-1308. | 2.7 | 10 |
| 23 | Floor Optical Flow Based Navigation Controller for Multirotor Aerial Vehicles. Advances in Intelligent Systems and Computing, 2014, , 91-106. | 0.6 | 1 |
| 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 general purpose configurable navigation controller for micro aerial multirotor vehicles. , 2013, , . | | 8 |
| 26 | 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 |
| 27 | Vision Based Control for Micro Aerial Vehicles: Application to Sense and Avoid. Studies in Computational Intelligence, 2013, , 127-141. | 0.9 | 0 |
| 28 | Autonomous Guided Car Using a Fuzzy Controller. Studies in Computational Intelligence, 2013, , 37-55. | 0.9 | 0 |
| 29 | A visual AGV-urban car using Fuzzy control. , 2011, , . | | 9 |
| 30 | 3D object following based on visual information for Unmanned Aerial Vehicles. , 2011, , . | | 15 |
| 31 | 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 |
| 32 | Unmanned aerial vehicles UAVs attitude, height, motion estimation and control using visual systems. Autonomous Robots, 2010, 29, 17-34. | 4.8 | 53 |
| 33 | Omnidirectional vision applied to Unmanned Aerial Vehicles (UAVs) attitude and heading estimation. Robotics and Autonomous Systems, 2010, 58, 809-819. | 5.1 | 44 |
| 34 | Fuzzy controller for UAV-landing task using 3D-position visual estimation. , 2010, , . | | 22 |
| 35 | 3D pose estimation based on planar object tracking for UAVs control. , 2010, , . | | 48 |
| 36 | On-board and Ground Visual Pose Estimation Techniques for UAV Control. , 2010, , 301-320. | | 2 |

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|---|---|---|---|
| 37 | Computer Vision Onboard UAVs for Civilian Tasks. Journal of Intelligent and Robotic Systems: Theory and Applications, 2009, 54, 105-135. | 3.4 | 65 |
| 38 | Visual 3-D SLAM from UAVs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2009, 55, 299-321. | 3.4 | 123 |
| 39 | Trinocular ground system to control UAVs. , 2009, , . | | 28 |
| 40 | A pan-tilt camera Fuzzy vision controller on an unmanned aerial vehicle. , 2009, , . | | 17 |
| 41 | Computer Vision Onboard UAVs for Civilian Tasks. , 2008, , 105-135. | | 8 |
| 42 | STEREO VISUAL SYSTEM FOR AUTONOMOUS AIR VEHICLE NAVIGATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 203-208. | 0.4 | 5 |
| 43 | COLIBRI: A vision-Guided UAV for Surveillance and Visual Inspection. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , . | 0.0 | 33 |
| 44 | Visual Model Feature Tracking For UAV Control. , 2007, , . | | 37 |