# Xavier Paolo Burgos-Artizzu

## List of Publications by Year
in descending order

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|---|---|---|---|
| 31 papers | 2,075 citations | 567281 15 h-index | 552781 26 g-index |
| 37 all docs | 37 docs citations | 37 times ranked | 2170 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | Robust Face Landmark Estimation under Occlusion. , 2013, , . | | 511 |
| 2 | Automatic segmentation of relevant textures in agricultural images. Computers and Electronics in Agriculture, 2011, 75, 75-83. | 7.7 | 257 |
| 3 | Automated measurement of mouse social behaviors using depth sensing, video tracking, and machine learning. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5351-60. | 7.1 | 248 |
| 4 | Real-time image processing for crop/weed discrimination in maize fields. Computers and Electronics in Agriculture, 2011, 75, 337-346. | 7.7 | 222 |
| 5 | A vision-based method for weeds identification through the Bayesian decision theory. Pattern Recognition, 2008, 41, 521-530. | 8.1 | 121 |
| 6 | A computer vision approach for weeds identification through Support Vector Machines. Applied Soft Computing Journal, 2011, 11, 908-915. | 7.2 | 112 |
| 7 | A new vision-based approach to differential spraying in precision agriculture. Computers and Electronics in Agriculture, 2008, 60, 144-155. | 7.7 | 106 |
| 8 | Evaluation of deep convolutional neural networks for automatic classification of common maternal fetal ultrasound planes. Scientific Reports, 2020, 10, 10200. | 3.3 | 79 |
| 9 | Detecting Social Actions of Fruit Flies. Lecture Notes in Computer Science, 2014, , 772-787. | 1.3 | 71 |
| 10 | Improving weed pressure assessment using digital images from an experience-based reasoning approach. Computers and Electronics in Agriculture, 2009, 65, 176-185. | 7.7 | 59 |
| 11 | Analysis of natural images processing for the extraction of agricultural elements. Image and Vision Computing, 2010, 28, 138-149. | 4.5 | 59 |
| 12 | Mapping Wide Row Crops with Video Sequences Acquired from a Tractor Moving at Treatment Speed. Sensors, 2011, 11, 7095-7109. | 3.8 | 35 |
| 13 | Evaluation of an improved tool for non-invasive prediction of neonatal respiratory morbidity based on fully automated fetal lung ultrasound analysis. Scientific Reports, 2019, 9, 1950. | 3.3 | 32 |
| 14 | Quantitative Ultrasound Image Analysis of Axillary Lymph Nodes to Diagnose Metastatic Involvement in Breast Cancer. Ultrasound in Medicine and Biology, 2019, 45, 2932-2941. | 1.5 | 22 |
| 15 | Analysis of maturation features in fetal brain ultrasound via artificial intelligence for the estimation of gestational age. American Journal of Obstetrics &amp; Gynecology MFM, 2021, 3, 100462. | 2.6 | 18 |
| 16 | Real-time expression-sensitive HMD face reconstruction. , 2015, , . | | 17 |
| 17 | An Image Segmentation Based on a Genetic Algorithm for Determining Soil Coverage by Crop Residues. Sensors, 2011, 11, 6480-6492. | 3.8 | 16 |
| 18 | Distance Estimation of an Unknown Person from a Portrait. Lecture Notes in Computer Science, 2014, , 313-327. | 1.3 | 15 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Generative Adversarial Networks to Improve Fetal Brain Fine-Grained Plane Classification. Sensors, 2021, 21, 7975. | 3.8 | 14 |
| 20 | Three-Dimensional Pose Estimation for Laboratory Mouse From Monocular Images. IEEE Transactions on Image Processing, 2019, 28, 4273-4287. | 9.8 | 11 |
| 21 | Real-time Image Processing for the Guidance of a Small Agricultural Field Inspection Vehicle. , 2008, , . | | 5 |
| 22 | The Predictive Value of the Cervical Consistency Index to Predict Spontaneous Preterm Birth in Asymptomatic Twin Pregnancies at the Second-Trimester Ultrasound Scan: A Prospective Cohort Study. Journal of Clinical Medicine, 2020, 9, 1784. | 2.4 | 5 |
| 23 | Mid-trimester prediction of spontaneous preterm birth with automated cervical quantitative ultrasound texture analysis and cervical length: a prospective study. Scientific Reports, 2021, 11, 7469. | 3.3 | 5 |
| 24 | Development and Evaluation of a Prototype Precision Spot Spray System Using Image Analysis to Target Guinea Grass in Sugarcane. Australian Journal of Multi-Disciplinary Engineering, 2011, 8, 97-106. | 0.8 | 4 |
| 25 | Quantitative ultrasound image analysis of axillary lymph nodes to differentiate malignancy from reactive benign changes due to COVID-19 vaccination. European Journal of Radiology, 2022, 154, 110438. | 2.6 | 4 |
| 26 | Optimisation of natural images processing using different evolutionary algorithms. , 2008, , . | | 3 |
| 27 | Pose and Expression-Coherent Face Recovery in the Wild. , 2015, , . | | 3 |
| 28 | Low levels of CIITA and high levels of SOCS1 predict COVID-19 disease severity in children and adults. IScience, 2022, 25, 103595. | 4.1 | 2 |
| 29 | Concordance of the risk of neonatal respiratory morbidity assessed by quantitative ultrasound lung texture analysis in fetuses of twin pregnancies. Scientific Reports, 2022, 12, . | 3.3 | 2 |
| 30 | Intra- and interobserver reproducibility of second trimester ultrasound cervical length measurement in a general population. Journal of Maternal-Fetal and Neonatal Medicine, 2020, , 1-4. | 1.5 | 1 |
| 31 | On combining vision-based hybrid classifiers for weeds detection in precision agriculture. International Journal of Reasoning-based Intelligent Systems, 2010, 2, 100. | 0.1 | 0 |