

# Andres Fuster-Guillo

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42  
papers

255  
citations

10  
h-index

14  
g-index

46  
ext. papers

328  
ext. citations

2.8  
avg, IF

3.45  
L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 42 | A non-invasive approach for total cholesterol level prediction using machine learning. <i>IEEE Access</i> , <b>2022</b> , 1-1  | 3.5 | 1         |
| 41 | The DeepFish computer vision dataset for fish instance segmentation, classification, and size estimation. <i>Scientific Data</i> , <b>2022</b> , 9,                        | 8.2 | 2         |
| 40 | Multidimensional Measurement of Virtual Human Bodies Acquired with Depth Sensors. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 721-730             | 0.4 |           |
| 39 | IA-CPS: Intelligent architecture for cyber-physical systems management. <i>Journal of Computational Science</i> , <b>2021</b> , 53, 101409                                 | 3.4 | 1         |
| 38 | Iterative multilinear optimization for planar model fitting under geometric constraints. <i>PeerJ Computer Science</i> , <b>2021</b> , 7, e691                             | 2.7 |           |
| 37 | . <i>IEEE Access</i> , <b>2021</b> , 9, 12968-12988  | 3.5 | 4         |
| 36 | When Deep Learning Meets Data Alignment: A Review on Deep Registration Networks (DRNs). <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7524                     | 2.6 | 10        |
| 35 | Defining a Master Data Management Approach for Increasing Open Data Understandability. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 169-178                    | 0.9 | 1         |
| 34 | RGB-D-Based Framework to Acquire, Visualize and Measure the Human Body for Dietetic Treatments. <i>Sensors</i> , <b>2020</b> , 20,   | 3.8 | 4         |
| 33 | Deep Learning Architecture for Group Activity Recognition using Description of Local Motions* <b>2020</b> ,  |     | 3         |
| 32 | A collaborative working model for enhancing the learning process of science & engineering students. <i>Computers in Human Behavior</i> , <b>2020</b> , 103, 140-150        | 7.7 | 27        |
| 31 | Practical Method of Improving the Teamwork of Engineering Students Using Team Contracts to Minimize Conflict Situations. <i>IEEE Access</i> , <b>2019</b> , 7, 65083-65092 | 3.5 | 4         |
| 30 | Evaluating Impact on Motivation and Academic Performance of a Game-Based Learning Experience Using Kahoot. <i>Frontiers in Psychology</i> , <b>2019</b> , 10, 2843         | 3.4 | 15        |
| 29 | 3D Technologies to Acquire and Visualize the Human Body for Improving Dietetic Treatment. <i>Proceedings (mdpi)</i> , <b>2019</b> , 31, 53                                 | 0.3 | 2         |
| 28 | 3D non-rigid registration using color: Color Coherent Point Drift. <i>Computer Vision and Image Understanding</i> , <b>2018</b> , 169, 119-135                             | 4.3 | 10        |
| 27 | A Survey of 3D Rigid Registration Methods for RGB-D Cameras. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2018</b> , 74-98                      | 0.3 | 2         |
| 26 | Evaluation of sampling method effects in 3D non-rigid registration. <i>Neural Computing and Applications</i> , <b>2017</b> , 28, 953-967                                   | 4.8 | 10        |

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|----|---|-----|----|
| 25 | Constrained self-organizing feature map to preserve feature extraction topology. <i>Neural Computing and Applications</i> , <b>2017</b> , 28, 439-459                     | 4.8 | 2  |
| 24 | A Novel Active Imaging Model to Design Visual Systems: A Case of Inspection System for Specular Surfaces. <i>Sensors</i> , <b>2017</b> , 17,                              | 3.8 | 2  |
| 23 | A Quantitative Comparison of Calibration Methods for RGB-D Sensors Using Different Technologies. <i>Sensors</i> , <b>2017</b> , 17,                                       | 3.8 | 16 |
| 22 | 3D Body Registration from RGB-D Data with Unconstrained Movements and Single Sensor. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 317-329                     | 0.9 | 1  |
| 21 | An Iterative Method for 3D Body Registration Using a Single RGB-D Sensor. <i>International Journal of Computer Vision and Image Processing</i> , <b>2017</b> , 7, 26-39   | 0.7 |    |
| 20 | A Novel Prediction Method for Early Recognition of Global Human Behaviour in Image Sequences. <i>Neural Processing Letters</i> , <b>2016</b> , 43, 363-387                | 2.4 | 13 |
| 19 | Group activity description and recognition based on trajectory analysis and neural networks <b>2016</b> ,   |     | 9  |
| 18 | The university as an open data ecosystem. <i>International Journal of Design and Nature and Ecodynamics</i> , <b>2016</b> , 11, 250-257                                   | 2.3 | 8  |
| 17 | Developing a data map for opening public sector information. <i>International Journal of Design and Nature and Ecodynamics</i> , <b>2016</b> , 11, 370-375                | 2.3 | 2  |
| 16 | EMAR: Multiplane 3D Marker based Registration for depth-sensing cameras. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 9353-9365                            | 7.8 | 11 |
| 15 | Three-dimensional planar model estimation using multi-constraint knowledge based on k-means and RANSAC. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 34, 572-586 | 7.5 | 14 |
| 14 | Self-Organizing Activity Description Map to represent and classify human behaviour <b>2015</b> ,  |     | 8  |
| 13 | Non-rigid point set registration using color and data downsampling <b>2015</b> ,  |     | 2  |
| 12 | Adjustable compression method for still JPEG images. <i>Signal Processing: Image Communication</i> , <b>2015</b> , 32, 16-32  | 2.8 | 6  |
| 11 | Topology Preserving Self-Organizing Map of Features in Image Space for Trajectory Classification. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 271-280        | 0.9 | 1  |
| 10 | A Comparative Study of Downsampling Techniques for Non-rigid Point Set Registration Using Color. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 281-290         | 0.9 | 2  |
| 9  | A comparative study of registration methods for RGB-D video of static scenes. <i>Sensors</i> , <b>2014</b> , 14, 8547-76.8  |     | 23 |
| 8  | A predictive model for recognizing human behaviour based on trajectory representation <b>2014</b> ,   |     | 13 |

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|---|---|-----|----|
| 7 | Human behaviour recognition based on trajectory analysis using neural networks <b>2013</b> ,  |     | 11 |
| 6 | Model-Based Multi-view Registration for RGB-D Sensors. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 496-503                                   | 3   |    |
| 5 | Comparative Analysis of Temporal Segmentation Methods of Video Sequences <b>2013</b> , 43-58  |     | 1  |
| 4 | Automatic generation of image acquisition conditions for the quality control of specular surfaces <b>2007</b> ,   |     | 1  |
| 3 | Simulation of Automated Visual Inspection Systems for Specular Surfaces Quality Control. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 749-762 | 0.9 | 1  |
| 2 | Image labelling in real conditions. <i>Kybernetes</i> , <b>2005</b> , 34, 1587-1597   | 2   | 1  |
| 1 | Use of mathematical morphology in real-time path planning. <i>Kybernetes</i> , <b>2002</b> , 31, 115-123  | 2   | 8  |