

Imma Boada

List of Publications by Year in descending order

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52
papers

1,319
citations

567144

15
h-index

377752

34
g-index

55
all docs

55
docs citations

55
times ranked

2025
citing authors

#	ARTICLE	IF	CITATIONS
1	Serious games for health. Entertainment Computing, 2013, 4, 231-247.	1.8	211
2	Wallerian Degeneration in the Corticospinal Tract Evaluated by Diffusion Tensor Imaging Correlates with Motor Deficit 30 Days after Middle Cerebral Artery Ischemic Stroke. American Journal of Neuroradiology, 2010, 31, 1324-1330.	1.2	167
3	Acute Damage to the Posterior Limb of the Internal Capsule on Diffusion Tensor Tractography as an Early Imaging Predictor of Motor Outcome after Stroke. American Journal of Neuroradiology, 2011, 32, 857-863.	1.2	151
4	Quantification of Thrombus Hounsfield Units on Noncontrast CT Predicts Stroke Subtype and Early Recanalization after Intravenous Recombinant Tissue Plasminogen Activator. American Journal of Neuroradiology, 2012, 33, 90-96.	1.2	120
5	Using a serious game to complement CPR instruction in a nurse faculty. Computer Methods and Programs in Biomedicine, 2015, 122, 282-291.	2.6	85
6	Semi-automated method for brain hematoma and edema quantification using computed tomography. Computerized Medical Imaging and Graphics, 2009, 33, 304-311.	3.5	53
7	Image Segmentation Using Information Bottleneck Method. IEEE Transactions on Image Processing, 2009, 18, 1601-1612.	6.0	44
8	Multimodal Data Fusion Based on Mutual Information. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 1574-1587.	2.9	44
9	Automatic Transfer Functions Based on Informational Divergence. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 1932-1941.	2.9	42
10	Reliability of the ABC/2 Method in Determining Acute Infarct Volume. Journal of Neuroimaging, 2012, 22, 155-159.	1.0	35
11	A new e-learning platform for radiology education (RadEd). Computer Methods and Programs in Biomedicine, 2016, 126, 63-75.	2.6	29
12	A web-based e-learning tool for UML class diagrams. , 2010, , .		25
13	High-Dimensional Normalized Mutual Information for Image Registration Using Random Lines. Lecture Notes in Computer Science, 2006, , 264-271.	1.0	23
14	Analysis of new diffusion tensor imaging anisotropy measures in the three-phase plot. Journal of Magnetic Resonance Imaging, 2010, 31, 1435-1444.	1.9	20
15	Image Segmentation Using Excess Entropy. Journal of Signal Processing Systems, 2009, 54, 205-214.	1.4	19
16	Normalized similarity measures for medical image registration. , 2004, 5370, 108.		18
17	Breast Density Segmentation: A Comparison of Clustering and Region Based Techniques. Lecture Notes in Computer Science, 2008, , 9-16.	1.0	17
18	Image registration by compression. Information Sciences, 2010, 180, 1121-1133.	4.0	14

#	ARTICLE	IF	CITATIONS
19	Approximations of 2D and 3D generalized Voronoi diagrams. International Journal of Computer Mathematics, 2008, 85, 1003-1022.	1.0	13
20	Viewpoint information channel for illustrative volume rendering. Computers and Graphics, 2010, 34, 351-360.	1.4	13
21	An Information-Theoretic Observation Channel for Volume Visualization. Computer Graphics Forum, 2013, 32, 411-420.	1.8	13
22	Information Theory-Based Automatic Multimodal Transfer Function Design. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 870-880.	3.9	12
23	Compression-based Image Registration. , 2006, , .		11
24	Increased Corticospinal Tract Fractional Anisotropy Can Discriminate Stroke Onset Within the First 4.5 Hours. Stroke, 2013, 44, 1162-1165.	1.0	11
25	Novel Brain Complexity Measures Based on Information Theory. Entropy, 2018, 20, 491.	1.1	8
26	Similarity-Based Exploded Views. Lecture Notes in Computer Science, 2008, , 154-165.	1.0	7
27	A Serious Game on the First-Aid Procedure in Choking Scenarios: Design and Evaluation Study. JMIR Serious Games, 2020, 8, e16655.	1.7	7
28	Medical image registration based on random line sampling. , 2005, , .		6
29	An Automatic Correction Tool For Relational Database Schemas. , 0, , .		6
30	Volumetric ambient occlusion for volumetric models. Visual Computer, 2010, 26, 687-695.	2.5	6
31	An Arduino-based device for visually impaired people to play videogames. Multimedia Tools and Applications, 2018, 77, 19591-19613.	2.6	6
32	Evaluation of an automatic lean meat percentage quantification method based on a partial volume model from computed tomography scans. Computers and Electronics in Agriculture, 2018, 151, 365-375.	3.7	6
33	A Deep-Learning Based Solution to Automatically Control Closure and Seal of Pizza Packages. IEEE Access, 2021, 9, 167267-167281.	2.6	6
34	CPRforblind: A video game to introduce cardiopulmonary resuscitation protocol to blind people. British Journal of Educational Technology, 2018, 49, 636-645.	3.9	5
35	How the gender of a victim character in a virtual scenario created to learn CPR protocol affects student nursesâ€™ performance. Computer Methods and Programs in Biomedicine, 2018, 162, 233-241.	2.6	5
36	3D texture-based hybrid visualizations. Computers and Graphics, 2003, 27, 41-49.	1.4	4

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37	An automatic correction tool that can learn. , 2011, , .		4
38	A Formative Assessment Tool for Conceptual Database Design Using UML Class Diagram. International Journal of Emerging Technologies in Learning, 2010, 5, 27.	0.8	4
39	Multiresolution image registration based on tree data structures. Graphical Models, 2011, 73, 111-126.	1.1	3
40	The Framework of a Life Support Simulation Application. Procedia Computer Science, 2012, 15, 293-294.	1.2	3
41	Videoconferencing in eHealth: Requirements, integration and workflow. , 2013, , .		3
42	Design and Deployment of a Generic Software for Managing Industrial Vision Systems. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2171-2186.	3.4	3
43	ACME: Plataforma de Aprendizaje Electrónico (e-learning) con Funcionalidades Deseables en el Ámbito de la Ingeniería. Formacion Universitaria, 2012, 5, 3-16.	0.2	3
44	An octree-based multiresolution hybrid framework. Future Generation Computer Systems, 2004, 20, 1275-1284.	4.9	2
45	Information-Theoretic Approach for Automated White Matter Fiber Tracts Reconstruction. Neuroinformatics, 2012, 10, 305-318.	1.5	2
46	Hierarchical clustering based on the information bottleneck method using a control process. Pattern Analysis and Applications, 2015, 18, 619-637.	3.1	2
47	A Method to Compensate for the Errors Caused by Temperature in Structured-Light 3D Cameras. Sensors, 2021, 21, 2073.	2.1	2
48	Medical Image Registration Based on BSP and Quad-Tree Partitioning. Lecture Notes in Computer Science, 2006, , 1-8.	1.0	2
49	An efficient and uniformly behaving streamline-based $\frac{1}{4}$ CT fibre tracking algorithm using volume-wise structure tensor and signal processing techniques. Computer Methods in Applied Mechanics and Engineering, 2022, 394, 114888.	3.4	2
50	A Monte Carlo-Based Fiber Tracking Algorithm using Diffusion Tensor MRI. , 2006, , .		1
51	Quantification of computed tomography pork carcass images. , 2014, , .		1
52	An automatic correction tool for inorganic chemical formulas. , 2010, , .		0