

Gemma Piella

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.

93
papers

1,767
citations

18
h-index

40
g-index

100
ext. papers

2,251
ext. citations

5.5
avg, IF

5.21
L-index

#	Paper	IF	Citations
93	Survey on 3D face reconstruction from uncalibrated images. <i>Computer Science Review</i> , 2021 , 40, 100400	8.3	8
92	Nonlinear interaction between APOE ϵ allele load and age in the hippocampal surface of cognitively intact individuals. <i>Human Brain Mapping</i> , 2021 , 42, 47-64	5.9	4
91	Re-Identification and growth detection of pulmonary nodules without image registration using 3D siamese neural networks. <i>Medical Image Analysis</i> , 2021 , 67, 101823	15.4	4
90	Assessment of Radiomics and Deep Learning for the Segmentation of Fetal and Maternal Anatomy in Magnetic Resonance Imaging and Ultrasound. <i>Academic Radiology</i> , 2021 , 28, 173-188	4.3	8
89	Identifying causative mechanisms linking early-life stress to psycho-cardio-metabolic multi-morbidity: The EarlyCause project. <i>PLoS ONE</i> , 2021 , 16, e0245475	3.7	1
88	A novel approach to multiple anatomical shape analysis: Application to fetal ventriculomegaly. <i>Medical Image Analysis</i> , 2020 , 64, 101750	15.4	4
87	A survey on machine and statistical learning for longitudinal analysis of neuroimaging data in Alzheimer's disease. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 189, 105348	6.9	15
86	Analysis of nonstandardized stress echocardiography sequences using multiview dimensionality reduction. <i>Medical Image Analysis</i> , 2020 , 60, 101594	15.4	4
85	Integration of convolutional neural networks for pulmonary nodule malignancy assessment in a lung cancer classification pipeline. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 185, 105172	6.9	23
84	TTTS-STgan: Stacked Generative Adversarial Networks for TTTS Fetal Surgery Planning Based on 3D Ultrasound. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 3595-3606	11.7	0
83	Deep Q-CapsNet Reinforcement Learning Framework for Intrauterine Cavity Segmentation in TTTS Fetal Surgery Planning. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 3113-3124	11.7	0
82	Fetal cortical surface atlas parcellation based on growth patterns. <i>Human Brain Mapping</i> , 2019 , 40, 3881-3899	5.99	11
81	Revealing heterogeneity of brain imaging phenotypes in Alzheimer's disease based on unsupervised clustering of blood marker profiles. <i>PLoS ONE</i> , 2019 , 14, e0211121	3.7	6
80	Fully automatic 3D reconstruction of the placenta and its peripheral vasculature in intrauterine fetal MRI. <i>Medical Image Analysis</i> , 2019 , 54, 263-279	15.4	20
79	Global Planar Convolutions for Improved Context Aggregation in Brain Tumor Segmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 393-405	0.9	1
78	TTTS-GPS: Patient-specific preoperative planning and simulation platform for twin-to-twin transfusion syndrome fetal surgery. <i>Computer Methods and Programs in Biomedicine</i> , 2019 , 179, 104993	6.9	10
77	Global and Regional Changes in Cortical Development Assessed by MRI in Fetuses with Isolated Nonsevere Ventriculomegaly Correlate with Neonatal Neurobehavior. <i>American Journal of Neuroradiology</i> , 2019 , 40, 1567-1574	4.4	3

76	Medical-based Deep Curriculum Learning for Improved Fracture Classification. <i>Lecture Notes in Computer Science</i> , 2019 , 694-702	0.9	11
75	Image-Based 3D Characterization of Abdominal Aortic Aneurysm Deformation After Endovascular Aneurysm Repair. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 267	5.8	3
74	Multimodal image registration using Laplacian commutators. <i>Information Fusion</i> , 2019 , 49, 130-145	16.7	17
73	Patch spaces and fusion strategies in patch-based label fusion. <i>Computerized Medical Imaging and Graphics</i> , 2019 , 71, 79-89	7.6	2
72	Machine learning-based phenogrouping in heart failure to identify responders to cardiac resynchronization therapy. <i>European Journal of Heart Failure</i> , 2019 , 21, 74-85	12.3	90
71	Segmentation and classification in MRI and US fetal imaging: Recent trends and future prospects. <i>Medical Image Analysis</i> , 2019 , 51, 61-88	15.4	40
70	Random walks with statistical shape prior for cochlea and inner ear segmentation in micro-CT images. <i>Machine Vision and Applications</i> , 2018 , 29, 405-414	2.8	4
69	Machine Learning Analysis of Left Ventricular Function to Characterize Heart Failure With Preserved Ejection Fraction. <i>Circulation: Cardiovascular Imaging</i> , 2018 , 11, e007138	3.9	57
68	Learning non-linear patch embeddings with neural networks for label fusion. <i>Medical Image Analysis</i> , 2018 , 44, 143-155	15.4	12
67	Patient-specific estimation of detailed cochlear shape from clinical CT images. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018 , 13, 389-396	3.9	13
66	Cortical folding alterations in fetuses with isolated non-severe ventriculomegaly. <i>NeuroImage: Clinical</i> , 2018 , 18, 103-114	5.3	10
65	Towards a Complete In Silico Assessment of the Outcome of Cochlear Implantation Surgery. <i>Molecular Neurobiology</i> , 2018 , 55, 173-186	6.2	6
64	Computational Evaluation of Cochlear Implant Surgery Outcomes Accounting for Uncertainty and Parameter Variability. <i>Frontiers in Physiology</i> , 2018 , 9, 498	4.6	5
63	Fetal MRI Synthesis via Balanced Auto-Encoder Based Generative Adversarial Networks. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 2599-2602	0.9	1
62	Revealing Regional Associations of Cortical Folding Alterations with In Utero Ventricular Dilation Using Joint Spectral Embedding. <i>Lecture Notes in Computer Science</i> , 2018 , 11072, 620-627	0.9	2
61	Learning to combine complementary segmentation methods for fetal and 6-month infant brain MRI segmentation. <i>Computerized Medical Imaging and Graphics</i> , 2018 , 69, 52-59	7.6	4
60	FETAL CORTICAL PARCELLATION BASED ON GROWTH PATTERNS 2018 , 2018, 696-699	1.5	2
59	Characterization of myocardial motion patterns by unsupervised multiple kernel learning. <i>Medical Image Analysis</i> , 2017 , 35, 70-82	15.4	32

58	Toward the automatic quantification of in utero brain development in 3D structural MRI: A review. <i>Human Brain Mapping</i> , 2017 , 38, 2772-2787	5.9	26
57	Discriminative confidence estimation for probabilistic multi-atlas label fusion. <i>Medical Image Analysis</i> , 2017 , 42, 274-287	15.4	7
56	On the Role of Patch Spaces in Patch-Based Label Fusion. <i>Lecture Notes in Computer Science</i> , 2017 , 37-44	0.9	
55	Learning and combining image neighborhoods using random forests for neonatal brain disease classification. <i>Medical Image Analysis</i> , 2017 , 42, 189-199	15.4	8
54	Characterizing Patterns of Response During Mild Stress-Testing in Continuous Echocardiography Recordings Using a Multiview Dimensionality Reduction Technique. <i>Lecture Notes in Computer Science</i> , 2017 , 502-513	0.9	1
53	Quasi-Conformal Technique for Integrating and Validating Myocardial Tissue Characterization in MRI with Ex-Vivo Human Histological Data. <i>Lecture Notes in Computer Science</i> , 2017 , 172-181	0.9	
52	Iterated random walks with shape prior. <i>Image and Vision Computing</i> , 2016 , 54, 12-21	3.7	3
51	Building an Ensemble of Complementary Segmentation Methods by Exploiting Probabilistic Estimates. <i>Lecture Notes in Computer Science</i> , 2016 , 27-35	0.9	11
50	Enhanced Probabilistic Label Fusion by Estimating Label Confidences Through Discriminative Learning. <i>Lecture Notes in Computer Science</i> , 2016 , 505-512	0.9	1
49	Random walks with shape prior for cochlea segmentation in ex vivo CT. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016 , 11, 1647-59	3.9	3
48	Automatic Model Generation Framework for Computational Simulation of Cochlear Implantation. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 2453-2463	4.7	11
47	Integration of Multi-Plane Tissue Doppler and B-Mode Echocardiographic Images for Left Ventricular Motion Estimation. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 89-97	11.7	2
46	Electrophysiology Model for a Human Heart with Ischemic Scar and Realistic Purkinje Network. <i>Lecture Notes in Computer Science</i> , 2016 , 90-97	0.9	
45	Learning pathological deviations from a normal pattern of myocardial motion: Added value for CRT studies? 2016 , 365-382		
44	Analysis of Uncertainty and Variability in Finite Element Computational Models for Biomedical Engineering: Characterization and Propagation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016 , 4, 85	5.8	14
43	A framework for optimal kernel-based manifold embedding of medical image data. <i>Computerized Medical Imaging and Graphics</i> , 2015 , 41, 93-107	7.6	10
42	Characterization of Myocardial Velocities by Multiple Kernel Learning: Application to Heart Failure with Preserved Ejection Fraction. <i>Lecture Notes in Computer Science</i> , 2015 , 65-73	0.9	1
41	Discriminative Dimensionality Reduction for Patch-Based Label Fusion. <i>Lecture Notes in Computer Science</i> , 2015 , 94-103	0.9	5

40	Improved myocardial motion estimation combining tissue Doppler and B-mode echocardiographic images. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 2098-106	11.7	5
39	Pre to Intraoperative Data Fusion Framework for Multimodal Characterization of Myocardial Scar Tissue. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2014 , 2, 1900211	3	2
38	Diffusion maps for multimodal registration. <i>Sensors</i> , 2014 , 14, 10562-77	3.8	17
37	Image-Based Estimation of Myocardial Acceleration Using TDDFD: A Phantom Study. <i>Lecture Notes in Computer Science</i> , 2014 , 262-270	0.9	
36	An Adaptive Multiscale Similarity Measure for Non-rigid Registration. <i>Lecture Notes in Computer Science</i> , 2014 , 203-212	0.9	
35	Generating anatomical models of the heart and the aorta from medical images for personalized physiological simulations. <i>Medical and Biological Engineering and Computing</i> , 2013 , 51, 1209-19	3.1	12
34	3D strain assessment in ultrasound (Straus): a synthetic comparison of five tracking methodologies. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 1632-46	11.7	43
33	Multiview diffeomorphic registration: application to motion and strain estimation from 3D echocardiography. <i>Medical Image Analysis</i> , 2013 , 17, 348-64	15.4	15
32	Interventional endocardial motion estimation from electroanatomical mapping data: application to scar characterization. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 1217-24	5	7
31	Temporal Diffeomorphic Free Form Deformation to Quantify Changes Induced by Left and Right Bundle Branch Block and Pacing. <i>Lecture Notes in Computer Science</i> , 2013 , 134-141	0.9	3
30	Manifold Learning Characterization of Abnormal Myocardial Motion Patterns: Application to CRT-Induced Changes. <i>Lecture Notes in Computer Science</i> , 2013 , 450-457	0.9	1
29	Patient-Specific Manifold Embedding of Multispectral Images Using Kernel Combinations. <i>Lecture Notes in Computer Science</i> , 2013 , 82-89	0.9	0
28	Myocardial motion estimation combining tissue doppler and B-mode echocardiographic images. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 484-91	0.9	2
27	Temporal diffeomorphic free-form deformation: application to motion and strain estimation from 3D echocardiography. <i>Medical Image Analysis</i> , 2012 , 16, 427-50	15.4	104
26	Atlas-based quantification of myocardial motion abnormalities: added-value for understanding the effect of cardiac resynchronization therapy. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 2186-97	3.5	7
25	Constrained manifold learning for the characterization of pathological deviations from normality. <i>Medical Image Analysis</i> , 2012 , 16, 1532-49	15.4	30
24	Endocardial motion estimation from electro-anatomical data 2012 ,		2
23	SPM to the heart: Mapping of 4D continuous velocities for motion abnormality quantification 2012 ,		11

22	Temporal Diffeomorphic Free Form Deformation (TDFFD) Applied to Motion and Deformation Quantification of Tagged MRI Sequences. <i>Lecture Notes in Computer Science</i> , 2012 , 68-77	0.9	9
21	A spatiotemporal statistical atlas of motion for the quantification of abnormal myocardial tissue velocities. <i>Medical Image Analysis</i> , 2011 , 15, 316-28	15.4	62
20	Multiview Diffeomorphic Registration for Motion and Strain Estimation from 3D Ultrasound Sequences. <i>Lecture Notes in Computer Science</i> , 2011 , 375-383	0.9	3
19	Cardiac Deformation from Electro-Anatomical Mapping Data: Application to Scar Characterization. <i>Lecture Notes in Computer Science</i> , 2011 , 47-54	0.9	2
18	Characterizing pathological deviations from normality using constrained manifold-learning. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 256-63	0.9	3
17	Caracterizaci3n de la deformaci3n mioc3rdica en pacientes con hipertrofia ventricular izquierda de diferente etiolog3a mediante el uso de distribuciones de strain obtenidas de im3genes de resonancia magn3tica. <i>Revista Espanola De Cardiologia</i> , 2010 , 63, 1281-1291	1.5	12
16	Temporal diffeomorphic free-form deformation for strain quantification in 3D-US images. <i>Lecture Notes in Computer Science</i> , 2010 , 13, 1-8	0.9	14
15	Atlas Construction and Image Analysis Using Statistical Cardiac Models. <i>Lecture Notes in Computer Science</i> , 2010 , 1-13	0.9	
14	Atlas-Based Quantification of Myocardial Motion Abnormalities: Added-value for the Understanding of CRT Outcome?. <i>Lecture Notes in Computer Science</i> , 2010 , 65-74	0.9	
13	Image Fusion for Enhanced Visualization: A Variational Approach. <i>International Journal of Computer Vision</i> , 2009 , 83, 1-11	10.6	95
12	Multi-sequence Registration of Cine, Tagged and Delay-Enhancement MRI with Shift Correction and Steerable Pyramid-Based Detagging. <i>Lecture Notes in Computer Science</i> , 2009 , 330-338	0.9	6
11	Towards content-oriented patent document processing. <i>World Patent Information</i> , 2008 , 30, 21-33	1.4	63
10	ADAPTIVE WAVELETS FOR IMAGE COMPRESSION USING UPDATE LIFTING: QUANTIZATION AND ERROR ANALYSIS. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2006 , 04, 41-63	0.9	11
9	Modified M-band synthesis filter bank for fractional scalability of images. <i>IEEE Signal Processing Letters</i> , 2006 , 13, 345-348	3.2	5
8	Combining Seminorms in Adaptive Lifting Schemes and Applications to Image Analysis and Compression. <i>Journal of Mathematical Imaging and Vision</i> , 2006 , 25, 203-226	1.6	12
7	Adaptive lifting schemes combining seminorms for lossless image compression 2005 ,		6
6	Building nonredundant adaptive wavelets by update lifting. <i>Applied and Computational Harmonic Analysis</i> , 2005 , 18, 252-281	3.1	22
5	Gradient-driven update lifting for adaptive wavelets. <i>Signal Processing: Image Communication</i> , 2005 , 20, 813-831	2.8	13

4	A general framework for multiresolution image fusion: from pixels to regions. <i>Information Fusion</i> , 2003 , 4, 259-280	16.7	501
3	Adaptive lifting schemes with perfect reconstruction. <i>IEEE Transactions on Signal Processing</i> , 2002 , 50, 1620-1630	4.8	61
2	Adaptive update lifting with a decision rule based on derivative filters. <i>IEEE Signal Processing Letters</i> , 2002 , 9, 329-332	3.2	37
1	A region-based multiresolution image fusion algorithm		32