

Debora G Gil

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

1,491
citations

471061

17
h-index

344852

36
g-index

91
all docs

91
docs citations

91
times ranked

1436
citing authors

#	ARTICLE	IF	CITATIONS
1	WM-DOVA maps for accurate polyp highlighting in colonoscopy: Validation vs. saliency maps from physicians. <i>Computerized Medical Imaging and Graphics</i> , 2015, 43, 99-111.	3.5	756
2	A CT-based Radiomics Signature Is Associated with Response to Immune Checkpoint Inhibitors in Advanced Solid Tumors. <i>Radiology</i> , 2021, 299, 109-119.	3.6	54
3	Statistical strategy for anisotropic adventitia modelling in IVUS. <i>IEEE Transactions on Medical Imaging</i> , 2006, 25, 768-778.	5.4	49
4	Estudio tractográfico de la anatomía helicoidal del miocardio ventricular mediante resonancia magnética por tensor de difusión. <i>Revista Espanola De Cardiología</i> , 2013, 66, 782-790.	0.6	43
5	Left ventricular torsion and longitudinal shortening: two fundamental components of myocardial mechanics assessed by tagged cine-MRI in normal subjects. <i>International Journal of Cardiovascular Imaging</i> , 2012, 28, 273-284.	0.7	37
6	A massively parallel computational electrophysiology model of the heart. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2011, 27, 1911-1929.	1.0	32
7	A Normalized Framework for the Design of Feature Spaces Assessing the Left Ventricular Function. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 733-745.	5.4	28
8	Helical Structure of the Cardiac Ventricular Anatomy Assessed by Diffusion Tensor Magnetic Resonance Imaging With Multiresolution Tractography. <i>Revista Espanola De Cardiología (English Ed)</i> , 2013, 66, 782-790.	0.4	28
9	Modelling of image-catheter motion for 3-D IVUS. <i>Medical Image Analysis</i> , 2009, 13, 91-104.	7.0	24
10	Mechanistic analysis of the function of agonists and allosteric modulators: reconciling two-state and operational models. <i>British Journal of Pharmacology</i> , 2013, 169, 1189-1202.	2.7	24
11	A quantitative and statistically robust method for the determination of xylem conduit spatial distribution. <i>American Journal of Botany</i> , 2010, 97, 1247-1259.	0.8	21
12	Approaching Artery Rigid Dynamics in IVUS. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 1670-1680.	5.4	20
13	Curvature Vector Flow With Assure Convergent Deformable Models for Shape Modelling. <i>Lecture Notes in Computer Science</i> , 2003, , 357-372.	1.0	20
14	Ultrathin Bronchoscopy with and without Virtual Bronchoscopic Navigation: Influence of Segmentation on Diagnostic Yield. <i>Respiration</i> , 2019, 97, 252-258.	1.2	19
15	A PBL Experience in the Teaching of Computer Graphics. <i>Computer Graphics Forum</i> , 2006, 25, 95-103.	1.8	18
16	Extending anisotropic operators to recover smooth shapes. <i>Computer Vision and Image Understanding</i> , 2005, 99, 110-125.	3.0	17
17	Recognition of the Mental Workloads of Pilots in the Cockpit Using EEG Signals. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2298.	1.3	17
18	Image-based cardiac phase retrieval in intravascular ultrasound sequences. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 60-72.	1.7	16

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19	Continuous Head Pose Estimation Using Manifold Subspace Embedding and Multivariate Regression. IEEE Access, 2018, 6, 18325-18334.	2.6	16
20	Myocardial Perfusion Characterization From Contrast Angiography Spectral Distribution. IEEE Transactions on Medical Imaging, 2008, 27, 641-649.	5.4	13
21	Variational Framework for Assessment of the Left Ventricle Motion. Mathematical Modelling of Natural Phenomena, 2008, 3, 76-100.	0.9	12
22	Free-form image registration of human cochlear 1/4 CT data using skeleton similarity as anatomical prior. Pattern Recognition Letters, 2016, 76, 76-82.	2.6	11
23	Multiple active receptor conformation, agonist efficacy and maximum effect of the system: the conformation-based operational model of agonism. Drug Discovery Today, 2013, 18, 365-371.	3.2	10
24	A Regularized Curvature Flow Designed for a Selective Shape Restoration. IEEE Transactions on Image Processing, 2004, 13, 1444-1458.	6.0	9
25	On the nature of 2D crystal unbending. Journal of Structural Biology, 2006, 156, 546-555.	1.3	9
26	Towards a Videobronchoscopy Localization System from Airway Centre Tracking. , 2017, , .		9
27	Helical Structure of Ventricular Anatomy by Diffusion Tensor Cardiac MR Tractography. JACC: Cardiovascular Imaging, 2012, 5, 754-755.	2.3	8
28	Fundamentals of Stop and Go active models. Image and Vision Computing, 2005, 23, 681-691.	2.7	7
29	Toward online quantification of tracheal stenosis from videobronchoscopy. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 935-945.	1.7	7
30	Segmentation of distal airways using structural analysis. PLoS ONE, 2019, 14, e0226006.	1.1	7
31	Mathematical Modeling of G Protein-Coupled Receptor Function: What Can We Learn from Empirical and Mechanistic Models?. Advances in Experimental Medicine and Biology, 2014, 796, 159-181.	0.8	7
32	Geometric steerable medial maps. Machine Vision and Applications, 2013, 24, 1255-1266.	1.7	6
33	Objective Endoscopic Measurements of Central Airway Stenosis: A Pilot Study. Respiration, 2018, 95, 63-69.	1.2	6
34	BronchoX: bronchoscopy exploration software for biopsy intervention planning. Healthcare Technology Letters, 2018, 5, 177-182.	1.9	6
35	Discarding Non Informative Regions for Efficient Colonoscopy Image Analysis. Lecture Notes in Computer Science, 2014, , 1-10.	1.0	6
36	E-Pilots: A System to Predict Hard Landing During the Approach Phase of Commercial Flights. IEEE Access, 2022, 10, 7489-7503.	2.6	6

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37	A Socio-Technical Simulation Model for the Design of the Future Single Pilot Cockpit: An Opportunity to Improve Pilot Performance. IEEE Access, 2022, 10, 22330-22343.	2.6	6
38	Shape Restoration via a Regularized Curvature Flow. Journal of Mathematical Imaging and Vision, 2004, 21, 205-223.	0.8	5
39	Image-based ECG sampling of IVUS sequences. , 2008, , .		5
40	Manifold parametrization of the left ventricle for a statistical modelling of its complete anatomy. , 2010, , .		5
41	Positive Airway Pressure to Enhance Computed Tomography Imaging for Airway Segmentation for Virtual Bronchoscopic Navigation. Respiration, 2018, 96, 525-534.	1.2	5
42	On-Line Lumen Centre Detection in Gastrointestinal and Respiratory Endoscopy. Lecture Notes in Computer Science, 2014, , 31-38.	1.0	5
43	Computation and Evaluation of Medial Surfaces for Shape Representation of Abdominal Organs. Lecture Notes in Computer Science, 2012, , 223-230.	1.0	5
44	Suppression of IVUS Image Rotation. A Kinematic Approach. Lecture Notes in Computer Science, 2005, , 359-368.	1.0	4
45	A Deterministic-Statistic Adventitia Detection in IVUS Images. Lecture Notes in Computer Science, 2005, , 65-74.	1.0	4
46	Detecting Loss of Diversity for an Efficient Termination of EAs. , 2013, , .		4
47	Image-Based Bronchial Anatomy Codification for Biopsy Guiding in Video Bronchoscopy. Lecture Notes in Computer Science, 2018, , 214-222.	1.0	4
48	Structure-Preserving Smoothing of Biomedical Images. Lecture Notes in Computer Science, 2009, , 427-434.	1.0	4
49	Optimal Medial Surface Generation for Anatomical Volume Representations. Lecture Notes in Computer Science, 2012, , 265-273.	1.0	4
50	What a Difference in Biomechanics Cardiac Fiber Makes. Lecture Notes in Computer Science, 2013, , 253-260.	1.0	4
51	A Complete Confidence Framework for Optical Flow. Lecture Notes in Computer Science, 2012, , 124-133.	1.0	4
52	Structure-preserving smoothing of biomedical images. Pattern Recognition, 2011, 44, 1842-1851.	5.1	3
53	Evaluation of the Capabilities of Confidence Measures for Assessing Optical Flow Quality. , 2013, , .		3
54	Anatomical parameterization for volumetric meshing of the liver. Proceedings of SPIE, 2014, , .	0.8	3

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55	Positive Airway Pressure-Enhanced CT to Improve Virtual Bronchoscopic Navigation. <i>Chest</i> , 2016, 150, 1003A.	0.4	3
56	Navigation Path Retrieval from Videobronchoscopy Using Bronchial Branches. <i>Lecture Notes in Computer Science</i> , 2016, , 62-70.	1.0	3
57	An Intelligent Radiomic Approach for Lung Cancer Screening. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1568.	1.3	3
58	Automatic evaluation of practices in Moodle for Self Learning in Engineering. <i>Journal of Technology and Science Education</i> , 2015, 5, .	0.5	2
59	Terminating evolutionary algorithms at their steady state. <i>Computational Optimization and Applications</i> , 2015, 61, 489-515.	0.9	2
60	Intraoperative Extraction of Airways Anatomy in VideoBronchoscopy. <i>IEEE Access</i> , 2020, 8, 159696-159704.	2.6	2
61	Stable Anatomical Structure Tracking for Video-Bronchoscopy Navigation. <i>Lecture Notes in Computer Science</i> , 2016, , 18-26.	1.0	2
62	An Illumination Model of the Trachea Appearance in Videobronchoscopy Images. <i>Lecture Notes in Computer Science</i> , 2012, , 313-320.	1.0	2
63	On-Line Lumen Centre Detection in Gastrointestinal and Respiratory Endoscopy. <i>Lecture Notes in Computer Science</i> , 2014, , 31-38.	1.0	2
64	P5B-12 How Do Conservation Laws Define a Motion Suppression Score in In-Vivo Ivus Sequences?. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2007, , .	0.0	1
65	Back to Front Architecture for Diagnosis as a Service. , 2018, , .		1
66	Localizing Pulmonary Lesions Using Fuzzy Deep Learning. , 2019, , .		1
67	Chromosomal positioning in spermatogenic cells is influenced by chromosomal factors associated with gene activity, bouquet formation and meiotic sex chromosome inactivation. <i>Chromosoma</i> , 2021, 130, 163-175.	1.0	1
68	Laplacian Unitary Domain for Texture Morphing. , 2015, , .		1
69	Mental Workload Detection Based on EEG Analysis. <i>Frontiers in Artificial Intelligence and Applications</i> , 2021, , .	0.3	1
70	The Benefits of IVUS Dynamics for Retrieving Stable Models of Arteries. , 0, , .		1
71	When Is a Confidence Measure Good Enough?. <i>Lecture Notes in Computer Science</i> , 2013, , 344-353.	1.0	1
72	Factors Affecting Optical Flow Performance in Tagging Magnetic Resonance Imaging. <i>Lecture Notes in Computer Science</i> , 2015, , 231-238.	1.0	1

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73	3D Stable Spatio-Temporal Polyp Localization in Colonoscopy Videos. Lecture Notes in Computer Science, 2016, , 140-152.	1.0	1
74	Inhibition of false landmarks. Pattern Recognition Letters, 2006, 27, 1022-1030.	2.6	0
75	Influence of the temporal resolution on the quantification of displacement fields in cardiac magnetic resonance tagged images. , 2008, , .		0
76	Decoupled external forces in a predictor-corrector segmentation scheme for LV contours in Tagged MR images. , 2010, 2010, 4805-8.		0
77	A confidence measure for assessing optical flow accuracy in the absence of ground truth. , 2011, , .		0
78	MIOCARDIA. , 2011, , .		0
79	Left-Ventricle Basal Region Constrained Parametric Mapping to Unitary Domain. Lecture Notes in Computer Science, 2017, , 163-171.	1.0	0
80	Anatomical medial surfaces with efficient resolution of branches singularities. Medical Image Analysis, 2017, 35, 390-402.	7.0	0
81	Medial structure generation for registration of anatomical structures. , 2017, , 313-344.		0
82	Computation of Left Ventricular Motion Patterns Using a Normalized Parametric Domain. Communications in Computer and Information Science, 2009, , 135-147.	0.4	0
83	Endowing Canonical Geometries to Cardiac Structures. Lecture Notes in Computer Science, 2010, , 124-133.	1.0	0
84	A Validation Benchmark for Assessment of Medial Surface Quality for Medical Applications. Lecture Notes in Computer Science, 2013, , 334-343.	1.0	0
85	Multi-resolution DT-MRI Cardiac Tractography. Lecture Notes in Computer Science, 2013, , 270-277.	1.0	0
86	Exploring the Impact of Inter-query Variability on the Performance of Retrieval Systems. Lecture Notes in Computer Science, 2014, , 413-420.	1.0	0