

# Debora G Gil

## List of Publications by Year in descending order

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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	E-Pilots: A System to Predict Hard Landing During the Approach Phase of Commercial Flights. IEEE Access, 2022, 10, 7489-7503.	2.6	6
2	An Intelligent Radiomic Approach for Lung Cancer Screening. Applied Sciences (Switzerland), 2022, 12, 1568.	1.3	3
3	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
4	Recognition of the Mental Workloads of Pilots in the Cockpit Using EEG Signals. Applied Sciences (Switzerland), 2022, 12, 2298.	1.3	17
5	A CT-based Radiomics Signature Is Associated with Response to Immune Checkpoint Inhibitors in Advanced Solid Tumors. Radiology, 2021, 299, 109-119.	3.6	54
6	Chromosomal positioning in spermatogenic cells is influenced by chromosomal factors associated with gene activity, bouquet formation and meiotic sex chromosome inactivation. Chromosoma, 2021, 130, 163-175.	1.0	1
7	Mental Workload Detection Based on EEG Analysis. Frontiers in Artificial Intelligence and Applications, 2021, , .	0.3	1
8	Intraoperative Extraction of Airways Anatomy in VideoBronchoscopy. IEEE Access, 2020, 8, 159696-159704.	2.6	2
9	Localizing Pulmonary Lesions Using Fuzzy Deep Learning. , 2019, , .		1
10	Segmentation of distal airways using structural analysis. PLoS ONE, 2019, 14, e0226006.	1.1	7
11	Ultrathin Bronchoscopy with and without Virtual Bronchoscopic Navigation: Influence of Segmentation on Diagnostic Yield. Respiration, 2019, 97, 252-258.	1.2	19
12	Continuous Head Pose Estimation Using Manifold Subspace Embedding and Multivariate Regression. IEEE Access, 2018, 6, 18325-18334.	2.6	16
13	Objective Endoscopic Measurements of Central Airway Stenosis: A Pilot Study. Respiration, 2018, 95, 63-69.	1.2	6
14	Back to Front Architecture for Diagnosis as a Service. , 2018, , .		1
15	Image-Based Bronchial Anatomy Codification for Biopsy Guiding in Video Bronchoscopy. Lecture Notes in Computer Science, 2018, , 214-222.	1.0	4
16	Positive Airway Pressure to Enhance Computed Tomography Imaging for Airway Segmentation for Virtual Bronchoscopic Navigation. Respiration, 2018, 96, 525-534.	1.2	5
17	BronchoX: bronchoscopy exploration software for biopsy intervention planning. Healthcare Technology Letters, 2018, 5, 177-182.	1.9	6
18	Left-Ventricle Basal Region Constrained Parametric Mapping to Unitary Domain. Lecture Notes in Computer Science, 2017, , 163-171.	1.0	0

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19	Anatomical medial surfaces with efficient resolution of branches singularities. Medical Image Analysis, 2017, 35, 390-402.	7.0	0
20	Medial structure generation for registration of anatomical structures. , 2017, , 313-344.		0
21	Towards a Videobronchoscopy Localization System from Airway Centre Tracking. , 2017, , .		9
22	Positive Airway Pressure-Enhanced CT to Improve Virtual Bronchoscopic Navigation. Chest, 2016, 150, 1003A.	0.4	3
23	Free-form image registration of human cochlear $\frac{1}{4}$ CT data using skeleton similarity as anatomical prior. Pattern Recognition Letters, 2016, 76, 76-82.	2.6	11
24	Stable Anatomical Structure Tracking for Video-Bronchoscopy Navigation. Lecture Notes in Computer Science, 2016, , 18-26.	1.0	2
25	3D Stable Spatio-Temporal Polyp Localization in Colonoscopy Videos. Lecture Notes in Computer Science, 2016, , 140-152.	1.0	1
26	Navigation Path Retrieval from Videobronchoscopy Using Bronchial Branches. Lecture Notes in Computer Science, 2016, , 62-70.	1.0	3
27	Automatic evaluation of practices in Moodle for Self Learning in Engineering. Journal of Technology and Science Education, 2015, 5, .	0.5	2
28	Terminating evolutionary algorithms at their steady state. Computational Optimization and Applications, 2015, 61, 489-515.	0.9	2
29	WM-DOVA maps for accurate polyp highlighting in colonoscopy: Validation vs. saliency maps from physicians. Computerized Medical Imaging and Graphics, 2015, 43, 99-111.	3.5	756
30	Toward online quantification of tracheal stenosis from videobronchoscopy. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 935-945.	1.7	7
31	Laplacian Unitary Domain for Texture Morphing. , 2015, , .		1
32	Factors Affecting Optical Flow Performance in Tagging Magnetic Resonance Imaging. Lecture Notes in Computer Science, 2015, , 231-238.	1.0	1
33	Anatomical parameterization for volumetric meshing of the liver. Proceedings of SPIE, 2014, , .	0.8	3
34	On-Line Lumen Centre Detection in Gastrointestinal and Respiratory Endoscopy. Lecture Notes in Computer Science, 2014, , 31-38.	1.0	5
35	Discarding Non Informative Regions for Efficient Colonoscopy Image Analysis. Lecture Notes in Computer Science, 2014, , 1-10.	1.0	6
36	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

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37	On-Line Lumen Centre Detection in Gastrointestinal and Respiratory Endoscopy. Lecture Notes in Computer Science, 2014, , 31-38.	1.0	2
38	Exploring the Impact of Inter-query Variability on the Performance of Retrieval Systems. Lecture Notes in Computer Science, 2014, , 413-420.	1.0	0
39	Helical Structure of the Cardiac Ventricular Anatomy Assessed by Diffusion Tensor Magnetic Resonance Imaging With Multiresolution Tractography. Revista Espanola De Cardiología (English Ed ), 2013, 66, 782-790.	0.4	28
40	Geometric steerable medial maps. Machine Vision and Applications, 2013, 24, 1255-1266.	1.7	6
41	Evaluation of the Capabilities of Confidence Measures for Assessing Optical Flow Quality. , 2013, , .		3
42	Estudio tractográfico de la anatomía helicoidal del miocardio ventricular mediante resonancia magnética por tensor de difusión. Revista Espanola De Cardiología, 2013, 66, 782-790.	0.6	43
43	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
44	Mechanistic analysis of the function of agonists and allosteric modulators: reconciling two-state and operational models. British Journal of Pharmacology, 2013, 169, 1189-1202.	2.7	24
45	Detecting Loss of Diversity for an Efficient Termination of EAs. , 2013, , .		4
46	What a Difference in Biomechanics Cardiac Fiber Makes. Lecture Notes in Computer Science, 2013, , 253-260.	1.0	4
47	A Validation Benchmark for Assessment of Medial Surface Quality for Medical Applications. Lecture Notes in Computer Science, 2013, , 334-343.	1.0	0
48	Multi-resolution DT-MRI Cardiac Tractography. Lecture Notes in Computer Science, 2013, , 270-277.	1.0	0
49	When Is a Confidence Measure Good Enough?. Lecture Notes in Computer Science, 2013, , 344-353.	1.0	1
50	Helical Structure of Ventricular Anatomy by Diffusion Tensor Cardiac MR Tractography. JACC: Cardiovascular Imaging, 2012, 5, 754-755.	2.3	8
51	Left ventricular torsion and longitudinal shortening: two fundamental components of myocardial mechanics assessed by tagged cine-MRI in normal subjects. International Journal of Cardiovascular Imaging, 2012, 28, 273-284.	0.7	37
52	Computation and Evaluation of Medial Surfaces for Shape Representation of Abdominal Organs. Lecture Notes in Computer Science, 2012, , 223-230.	1.0	5
53	Optimal Medial Surface Generation for Anatomical Volume Representations. Lecture Notes in Computer Science, 2012, , 265-273.	1.0	4
54	A Complete Confidence Framework for Optical Flow. Lecture Notes in Computer Science, 2012, , 124-133.	1.0	4

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55	An Illumination Model of the Trachea Appearance in Videobronchoscopy Images. Lecture Notes in Computer Science, 2012, , 313-320.	1.0	2
56	A confidence measure for assessing optical flow accuracy in the absence of ground truth. , 2011, , .		0
57	Image-based cardiac phase retrieval in intravascular ultrasound sequences. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 60-72.	1.7	16
58	MIOCARDIA. , 2011, , .		0
59	A massively parallel computational electrophysiology model of the heart. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 1911-1929.	1.0	32
60	Structure-preserving smoothing of biomedical images. Pattern Recognition, 2011, 44, 1842-1851.	5.1	3
61	A Normalized Framework for the Design of Feature Spaces Assessing the Left Ventricular Function. IEEE Transactions on Medical Imaging, 2010, 29, 733-745.	5.4	28
62	Decoupled external forces in a predictor-corrector segmentation scheme for LV contours in Tagged MR images. , 2010, 2010, 4805-8.		0
63	Manifold parametrization of the left ventricle for a statistical modelling of its complete anatomy. , 2010, , .		5
64	A quantitative and statistically robust method for the determination of xylem conduit spatial distribution. American Journal of Botany, 2010, 97, 1247-1259.	0.8	21
65	Endowing Canonical Geometries to Cardiac Structures. Lecture Notes in Computer Science, 2010, , 124-133.	1.0	0
66	Approaching Artery Rigid Dynamics in IVUS. IEEE Transactions on Medical Imaging, 2009, 28, 1670-1680.	5.4	20
67	Modelling of image-catheter motion for 3-D IVUS. Medical Image Analysis, 2009, 13, 91-104.	7.0	24
68	Structure-Preserving Smoothing of Biomedical Images. Lecture Notes in Computer Science, 2009, , 427-434.	1.0	4
69	Computation of Left Ventricular Motion Patterns Using a Normalized Parametric Domain. Communications in Computer and Information Science, 2009, , 135-147.	0.4	0
70	Myocardial Perfusion Characterization From Contrast Angiography Spectral Distribution. IEEE Transactions on Medical Imaging, 2008, 27, 641-649.	5.4	13
71	Influence of the temporal resolution on the quantification of displacement fields in cardiac magnetic resonance tagged images. , 2008, , .		0
72	Image-based ECG sampling of IVUS sequences. , 2008, , .		5

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73	Variational Framework for Assessment of the Left Ventricle Motion. Mathematical Modelling of Natural Phenomena, 2008, 3, 76-100.	0.9	12
74	P5B-12 How Do Conservation Laws Define a Motion Suppression Score in In-Vivo Ivus Sequences?. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	1
75	Statistical strategy for anisotropic adventitia modelling in IVUS. IEEE Transactions on Medical Imaging, 2006, 25, 768-778.	5.4	49
76	On the nature of 2D crystal unbending. Journal of Structural Biology, 2006, 156, 546-555.	1.3	9
77	A PBL Experience in the Teaching of Computer Graphics. Computer Graphics Forum, 2006, 25, 95-103.	1.8	18
78	Inhibition of false landmarks. Pattern Recognition Letters, 2006, 27, 1022-1030.	2.6	0
79	Extending anisotropic operators to recover smooth shapes. Computer Vision and Image Understanding, 2005, 99, 110-125.	3.0	17
80	Fundamentals of Stop and Go active models. Image and Vision Computing, 2005, 23, 681-691.	2.7	7
81	Suppression of IVUS Image Rotation. A Kinematic Approach. Lecture Notes in Computer Science, 2005, , 359-368.	1.0	4
82	A Deterministic-Statistic Adventitia Detection in IVUS Images. Lecture Notes in Computer Science, 2005, , 65-74.	1.0	4
83	Shape Restoration via a Regularized Curvature Flow. Journal of Mathematical Imaging and Vision, 2004, 21, 205-223.	0.8	5
84	A Regularized Curvature Flow Designed for a Selective Shape Restoration. IEEE Transactions on Image Processing, 2004, 13, 1444-1458.	6.0	9
85	Curvature Vector Flow to Assure Convergent Deformable Models for Shape Modelling. Lecture Notes in Computer Science, 2003, , 357-372.	1.0	20
86	The Benefits of IVUS Dynamics for Retrieving Stable Models of Arteries. , 0, , .		1