Nikos Paragios

List of Publications by Year
in descending order

56 papers	6,711 citations	159358 30 h-index	182168 51 g-index
58 all docs	58 docs citations	58 times ranked	7966 citing authors

#	Article	IF	Citations
1	Joint Deformable Image Registration and ADC Map Regularization: Application to DWI-Based Lymphoma Classification. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3151-3162.	3.9	1
2	Elastic Registration–driven Deep Learning for Longitudinal Assessment of Systemic Sclerosis Interstitial Lung Disease at CT. Radiology, 2021, 298, 189-198.	3.6	28
3	AI-driven quantification, staging and outcome prediction of COVID-19 pneumonia. Medical Image Analysis, 2021, 67, 101860.	7.0	111
4	Deep learning for lung disease segmentation on CT: Which reconstruction kernel should be used?. Diagnostic and Interventional Imaging, 2021, 102, 691-695.	1.8	14
5	Deep learning: definition and perspectives for thoracic imaging. European Radiology, 2020, 30, 2021-2030.	2.3	46
6	Artificial intelligence applications for thoracic imaging. European Journal of Radiology, 2020, 123, 108774.	1.2	115
7	Deep Learning–based Approach for Automated Assessment of Interstitial Lung Disease in Systemic Sclerosis on CT Images. Radiology: Artificial Intelligence, 2020, 2, e190006.	3.0	32
8	Quantification of Cystic Fibrosis Lung Disease with Radiomics-based CT Scores. Radiology: Cardiothoracic Imaging, 2020, 2, e200022.	0.9	4
9	Demystification of AI-driven medical image interpretation: past, present and future. European Radiology, 2019, 29, 1616-1624.	2.3	100
10	Use of Elastic Registration in Pulmonary MRI for the Assessment of Pulmonary Fibrosis in Patients with Systemic Sclerosis. Radiology, 2019, 291, 487-492.	3.6	18
11	Tighter continuous relaxations for MAP inference in discrete MRFs: A survey. Handbook of Numerical Analysis, 2019, 20, 351-400.	0.9	0
12	Graph-Based Slice-to-Volume Deformable Registration. International Journal of Computer Vision, 2018, 126, 36-58.	10.9	4
13	EnzyNet: enzyme classification using 3D convolutional neural networks on spatial representation. PeerJ, 2018, 6, e4750.	0.9	61
14	A radiomics approach to assess tumour-infiltrating CD8 cells and response to anti-PD-1 or anti-PD-L1 immunotherapy: an imaging biomarker, retrospective multicohort study. Lancet Oncology, The, 2018, 19, 1180-1191.	5.1	811
15	An automated computed tomography score for the cystic fibrosis lung. European Radiology, 2018, 28, 5111-5120.	2.3	16
16	Slice-to-volume medical image registration: A survey. Medical Image Analysis, 2017, 39, 101-123.	7.0	123
17	A Discrete MRF Framework for Integrated Multi-Atlas Registration and Segmentation. International Journal of Computer Vision, 2017, 121, 169-181.	10.9	13
18	Deformable Registration Through Learning of Context-Specific Metric Aggregation. Lecture Notes in Computer Science, 2017, , 256-265.	1.0	10

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19	Automatic single- and multi-label enzymatic function prediction by machine learning. PeerJ, 2017, 5, e3095.	0.9	27
20	Learning Grammars for Architecture-Specific Facade Parsing. International Journal of Computer Vision, 2016, 117, 290-316.	10.9	34
21	State of the Journal. Computer Vision and Image Understanding, 2016, 147, 1-2.	3.0	0
22	(Hyper)-Graphs Inference through Convex Relaxations and Move Making Algorithms: Contributions and Applications in Artificial Vision. Foundations and Trends in Computer Graphics and Vision, 2016, 10, 1-102.	2.8	5
23	(Hyper)-graphical models in biomedical image analysis. Medical Image Analysis, 2016, 33, 102-106.	7.0	14
24	A Probabilistic Atlas of Diffuse WHO Grade II Glioma Locations in the Brain. PLoS ONE, 2016, 11, e0144200.	1.1	55
25	Guest Editors' Introduction: Special Section on Higher Order Graphical Models in Computer Vision. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 1321-1322.	9.7	2
26	Slice-to-volume deformable registration: efficient one-shot consensus between plane selection and in-plane deformation. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 791-800.	1.7	12
27	Compressed‐sensing‐based content‐driven hierarchical reconstruction: Theory and application to C‐arm cone‐beam tomography. Medical Physics, 2015, 42, 5222-5237.	1.6	9
28	Concurrent tumor segmentation and registration with uncertainty-based sparse non-uniform graphs. Medical Image Analysis, 2014, 18, 647-659.	7.0	32
29	Deformable Medical Image Registration: A Survey. IEEE Transactions on Medical Imaging, 2013, 32, 1153-1190.	5.4	1,094
30	Markov Random Field modeling, inference & learning in computer vision & image understanding: A survey. Computer Vision and Image Understanding, 2013, 117, 1610-1627.	3.0	163
31	Spine Segmentation in Medical Images Using Manifold Embeddings and Higher-Order MRFs. IEEE Transactions on Medical Imaging, 2013, 32, 1227-1238.	5.4	70
32	Deformable Medical Image Registration: Setting the State of the Art with Discrete Methods. Annual Review of Biomedical Engineering, 2011, 13, 219-244.	5.7	163
33	Evaluation of Registration Methods on Thoracic CT: The EMPIRE10 Challenge. IEEE Transactions on Medical Imaging, 2011, 30, 1901-1920.	5.4	363
34	Model-Based 3D Hand Pose Estimation from Monocular Video. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 1793-1805.	9.7	212
35	Random Exploration of the Procedural Space for Single-View 3D Modeling of Buildings. International Journal of Computer Vision, 2011, 93, 253-271.	10.9	28
36	Learning deformation and structure simultaneously: In situ endograft deformation analysis. Medical Image Analysis, 2011, 15, 12-21.	7.0	10

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37	Automatic inference of articulated spine models in CT images using high-order Markov Random Fields. Medical Image Analysis, 2011, 15, 426-437.	7.0	50
38	DRAMMS: Deformable registration via attribute matching and mutual-saliency weighting. Medical Image Analysis, 2011, 15, 622-639.	7.0	335
39	A variational approach to monocular hand-pose estimation. Computer Vision and Image Understanding, 2010, 114, 363-372.	3.0	18
40	Linear intensity-based image registration by Markov random fields and discrete optimization. Medical Image Analysis, 2010, 14, 550-562.	7.0	38
41	Large-Scale Building Reconstruction Through Information Fusion and 3-D Priors. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2283-2296.	2.7	36
42	Spatio-temporal speckle reduction in ultrasound sequences. Inverse Problems and Imaging, 2010, 4, 211-222.	0.6	0
43	Cooperative Object Segmentation and Behavior Inference inÂImage Sequences. International Journal of Computer Vision, 2009, 84, 146-162.	10.9	7
44	Scene modeling and change detection in dynamic scenes: A subspace approach. Computer Vision and Image Understanding, 2009, 113, 63-79.	3.0	39
45	Prior Knowledge, Level Set Representations & Visual Grouping. International Journal of Computer Vision, 2008, 76, 231-243.	10.9	95
46	Dense image registration through MRFs and efficient linear programming. Medical Image Analysis, 2008, 12, 731-741.	7.0	344
47	Performance vs computational efficiency for optimizing single and dynamic MRFs: Setting the state of the art with primal-dual strategies. Computer Vision and Image Understanding, 2008, 112, 14-29.	3.0	143
48	Shape registration in implicit spaces using information theory and free form deformations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1303-1318.	9.7	178
49	Editorial: Special Issue on Vision and Medical Imaging Activities at Siemens Corporate Research. International Journal of Computer Vision, 2006, 70, 107-108.	10.9	0
50	Geodesic active regions and level set methods for motion estimation and tracking. Computer Vision and Image Understanding, 2005, 97, 259-282.	3.0	124
51	Non-rigid registration using distance functions. Computer Vision and Image Understanding, 2003, 89, 142-165.	3.0	119
52	A level set approach for shape-driven segmentation and tracking of the left ventricle. IEEE Transactions on Medical Imaging, 2003, 22, 773-776.	5.4	292
53	Geodesic Active Regions: A New Framework to Deal with Frame Partition Problems in Computer Vision. Journal of Visual Communication and Image Representation, 2002, 13, 249-268.	1.7	323
54	Geodesic Active Regions and Level Set Methods for Supervised Texture Segmentation. International Journal of Computer Vision, 2002, 46, 223-247.	10.9	638

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55	A Variational Approach for the Segmentation of the Left Ventricle in Cardiac Image Analysis. International Journal of Computer Vision, 2002, 50, 345-362.	10.9	132
56	Guest Editorial: Special Issue on Variational and Level Set Methods in Computer Vision. International Journal of Computer Vision, 2002, 50, 235-235.	10.9	0