

Xiaodong Wu

List of Publications by Year in descending order

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88
papers

3,193
citations

279487

23
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161609

54
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88
all docs

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docs citations

88
times ranked

2924
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Surface Segmentation in Volumetric Images-A Graph-Theoretic Approach. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 119-134.	9.7	572
2	Automated 3-D Intraretinal Layer Segmentation of Macular Spectral-Domain Optical Coherence Tomography Images. IEEE Transactions on Medical Imaging, 2009, 28, 1436-1447.	5.4	535
3	Intraretinal Layer Segmentation of Macular Optical Coherence Tomography Images Using Optimal 3-D Graph Search. IEEE Transactions on Medical Imaging, 2008, 27, 1495-1505.	5.4	300
4	LOGISMOS"Layered Optimal Graph Image Segmentation of Multiple Objects and Surfaces: Cartilage Segmentation in the Knee Joint. IEEE Transactions on Medical Imaging, 2010, 29, 2023-2037.	5.4	190
5	Optimal Co-Segmentation of Tumor in PET-CT Images With Context Information. IEEE Transactions on Medical Imaging, 2013, 32, 1685-1697.	5.4	112
6	Optimal Multiple Surface Segmentation With Shape and Context Priors. IEEE Transactions on Medical Imaging, 2013, 32, 376-386.	5.4	99
7	Multiple surface segmentation using convolution neural nets: application to retinal layer segmentation in OCT images. Biomedical Optics Express, 2018, 9, 4509.	1.5	95
8	Comparative Study With New Accuracy Metrics for Target Volume Contouring in PET Image Guided Radiation Therapy. IEEE Transactions on Medical Imaging, 2012, 31, 2006-2024.	5.4	75
9	Optimal Net Surface Problems with Applications. Lecture Notes in Computer Science, 2002, , 1029-1042.	1.0	70
10	Globally Optimal Tumor Segmentation in PET-CT Images: A Graph-Based Co-segmentation Method. Lecture Notes in Computer Science, 2011, 22, 245-256.	1.0	70
11	Simultaneous cosegmentation of tumors in PET-CT images using deep fully convolutional networks. Medical Physics, 2019, 46, 619-633.	1.6	66
12	3D fully convolutional networks for co-segmentation of tumors on PET-CT images. , 2018, 2018, 228-231.		60
13	Deep segmentation networks predict survival of non-small cell lung cancer. Scientific Reports, 2019, 9, 17286.	1.6	59
14	Simultaneous Segmentation of Multiple Closed Surfaces Using Optimal Graph Searching. Lecture Notes in Computer Science, 2005, 19, 406-417.	1.0	41
15	Error-Tolerant Scribbles Based Interactive Image Segmentation. , 2014, , .		41
16	MASCC: Multi-Atlas Segmentation Constrained Graph method for accurate segmentation of hip CT images. Medical Image Analysis, 2015, 26, 173-184.	7.0	40
17	Fat water decomposition using globally optimal surface estimation (GOOSE) algorithm. Magnetic Resonance in Medicine, 2015, 73, 1289-1299.	1.9	37
18	Incorporation of Regional Information in Optimal 3-D Graph Search with Application for Intraretinal Layer Segmentation of Optical Coherence Tomography Images. Lecture Notes in Computer Science, 2007, 20, 607-618.	1.0	33

#	ARTICLE	IF	CITATIONS
19	Optimal Graph Search Segmentation Using Arc-Weighted Graph for Simultaneous Surface Detection of Bladder and Prostate. Lecture Notes in Computer Science, 2009, 12, 827-835.	1.0	32
20	Optimal Graph Search Based Segmentation of Airway Tree Double Surfaces Across Bifurcations. IEEE Transactions on Medical Imaging, 2013, 32, 493-510.	5.4	30
21	Interstitial rotating shield brachytherapy for prostate cancer. Medical Physics, 2014, 41, 051703.	1.6	30
22	Multi-Surface and Multi-Field Co-Segmentation of 3-D Retinal Optical Coherence Tomography. IEEE Transactions on Medical Imaging, 2014, 33, 2242-2253.	5.4	29
23	Characterization and identification of spatial artifacts during 4D-CT imaging. Medical Physics, 2011, 38, 2074-2087.	1.6	28
24	Automated segmentation of intraretinal layers from macular optical coherence tomography images. , 2007, 6512, 385.		26
25	Rotating-shield brachytherapy for cervical cancer. Physics in Medicine and Biology, 2013, 58, 3931-3941.	1.6	26
26	Determining an Optimal Penetration Among Weighted Regions in Two and Three Dimensions. Journal of Combinatorial Optimization, 2001, 5, 59-79.	0.8	25
27	Systematic Review of Intensity-Modulated Brachytherapy (IMBT): Static and Dynamic Techniques. International Journal of Radiation Oncology Biology Physics, 2019, 105, 206-221.	0.4	23
28	Simultaneous searching of globally optimal interacting surfaces with shape priors. , 2010, , .		20
29	Dynamic rotating- γ -shield brachytherapy. Medical Physics, 2013, 40, 121703.	1.6	20
30	Efficient Algorithms and Implementations for Optimizing the Sum of Linear Fractional Functions, with Applications. Journal of Combinatorial Optimization, 2005, 9, 69-90.	0.8	19
31	Multiple layer segmentation and analysis in three-dimensional spectral-domain optical coherence tomography volume scans. Journal of Biomedical Optics, 2013, 18, 076006.	1.4	18
32	Multihelix rotating shield brachytherapy for cervical cancer. Medical Physics, 2015, 42, 6579-6588.	1.6	18
33	A rapid 3D fat-water decomposition method using globally optimal surface estimation (R-GOOSE). Magnetic Resonance in Medicine, 2018, 79, 2401-2407.	1.9	17
34	Paddle-based rotating- γ -shield brachytherapy. Medical Physics, 2015, 42, 5992-6003.	1.6	16
35	THE LAYERED NET SURFACE PROBLEMS IN DISCRETE GEOMETRY AND MEDICAL IMAGE SEGMENTATION. International Journal of Computational Geometry and Applications, 2007, 17, 261-296.	0.3	15
36	Optimal multiple-seams search for image resizing with smoothness and shape prior. Visual Computer, 2010, 26, 749-759.	2.5	15

#	ARTICLE	IF	CITATIONS
37	Efficient ¹⁶⁹ Yb high-dose-rate brachytherapy source production using reactivation. Medical Physics, 2019, 46, 2935-2943.	1.6	15
38	Use of Varying Constraints in Optimal 3-D Graph Search for Segmentation of Macular Optical Coherence Tomography Images. , 2007, 10, 244-251.		15
39	Surface-Region Context in Optimal Multi-object Graph-Based Segmentation: Robust Delineation of Pulmonary Tumors. Lecture Notes in Computer Science, 2011, 22, 61-72.	1.0	14
40	Simultaneous Multiple Surface Segmentation Using Deep Learning. Lecture Notes in Computer Science, 2017, , 3-11.	1.0	13
41	Graph Search with Appearance and Shape Information for 3-D Prostate and Bladder Segmentation. Lecture Notes in Computer Science, 2010, 13, 172-180.	1.0	13
42	IMAGE SEGMENTATION WITH ASTEROIDALITY/TUBULARITY AND SMOOTHNESS CONSTRAINTS. International Journal of Computational Geometry and Applications, 2002, 12, 413-428.	0.3	12
43	Multisource Rotating Shield Brachytherapy Apparatus for Prostate Cancer. International Journal of Radiation Oncology Biology Physics, 2017, 99, 719-728.	0.4	12
44	Rapid emission angle selection for rotating-shield brachytherapy. Medical Physics, 2013, 40, 051720.	1.6	11
45	Optimal multi-object segmentation with novel gradient vector flow based shape priors. Computerized Medical Imaging and Graphics, 2018, 69, 96-111.	3.5	11
46	Optimal surface segmentation with convex priors in irregularly sampled space. Medical Image Analysis, 2019, 54, 63-75.	7.0	11
47	Globally optimal segmentation of interacting surfaces with geometric constraints. , 0, , .		10
48	Region Detection by Minimizing Intra-class Variance With Geometric Constraints, Global Optimality, and Efficient Approximation. IEEE Transactions on Medical Imaging, 2011, 30, 814-827.	5.4	10
49	Asymmetric dose-volume optimization with smoothness control for rotating-shield brachytherapy. Medical Physics, 2014, 41, 111709.	1.6	10
50	Subvoxel Accurate Graph Search Using Non-Euclidean Graph Space. PLoS ONE, 2014, 9, e107763.	1.1	10
51	Effectiveness of Rotating Shield Brachytherapy for Prostate Cancer Dose Escalation and Urethral Sparing. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1543-1550.	0.4	9
52	Needle-free cervical cancer treatment using helical multishield intracavitary rotating shield brachytherapy with the ¹⁶⁹ Yb isotope. Medical Physics, 2020, 47, 2061-2071.	1.6	9
53	Globally optimal OCT surface segmentation using a constrained IPM optimization. Optics Express, 2022, 30, 2453.	1.7	9
54	Artificial intelligence enhanced two-dimensional nanoscale nuclear magnetic resonance spectroscopy. Npj Quantum Information, 2020, 6, .	2.8	8

#	ARTICLE	IF	CITATIONS
55	Feature guided motion artifact reduction with structure-awareness in 4D CT images. , 2011, 2011, 1057-1064.		7
56	Fast dose optimization for rotating shield brachytherapy. Medical Physics, 2017, 44, 5384-5392.	1.6	7
57	Motion Artifact Reduction in 4D Helical CT: Graph-Based Structure Alignment. Lecture Notes in Computer Science, 2011, , 63-73.	1.0	7
58	Efficient Algorithms for Segmenting Globally Optimal and Smooth Multi-surfaces. Lecture Notes in Computer Science, 2011, 22, 208-220.	1.0	7
59	¹⁶⁹Yb-based rotating shield brachytherapy for prostate cancer. Medical Physics, 2020, 47, 6430-6439.	1.6	6
60	Efficient Algorithms for the Optimal-Ratio Region Detection Problems in Discrete Geometry with Applications. Lecture Notes in Computer Science, 2006, 4288, 289-299.	1.0	6
61	3D Alpha Matting Based Co-segmentation of Tumors on PET-CT Images. Lecture Notes in Computer Science, 2017, 10555, 31-42.	1.0	6
62	Optimal multiple surfaces searching for video/image resizing - a graph-theoretic approach. , 2009, , .		5
63	Graph-based optimal multi-surface segmentation with a star-shaped prior: Application to the segmentation of the optic disc and cup. , 2014, , .		5
64	Automated surface segmentation of internal limiting membrane in spectral-domain optical coherence tomography volumes with a deep cup using a 3-D range expansion approach. , 2014, , .		4
65	Faster Segmentation Algorithm for Optical Coherence Tomography Images with Guaranteed Smoothness. Lecture Notes in Computer Science, 2011, , 308-316.	1.0	4
66	Optimal graph search based image segmentation for objects with complex topologies. Proceedings of SPIE, 2009, , .	0.8	3
67	An almost linear time algorithm for field splitting in radiation therapy. Computational Geometry: Theory and Applications, 2013, 46, 673-687.	0.3	3
68	Improving tumor co-segmentation on PET-CT images with 3D co-matting. , 2018, 2018, 224-227.		3
69	Segmenting Doughnut-Shaped Objects in Medical Images. Lecture Notes in Computer Science, 2003, , 375-384.	1.0	2
70	Globally optimal surface segmentation using regional properties of segmented objects. , 2008, , .		2
71	MOUNTAIN REDUCTION, BLOCK MATCHING, AND APPLICATIONS IN INTENSITY-MODULATED RADIATION THERAPY. International Journal of Computational Geometry and Applications, 2008, 18, 63-106.	0.3	2
72	EFFICIENT ALGORITHMS FOR THE OPTIMAL-RATIO REGION DETECTION PROBLEMS IN DISCRETE GEOMETRY WITH APPLICATIONS. International Journal of Computational Geometry and Applications, 2009, 19, 141-159.	0.3	2

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73	Multi-scale segmentation using deep graph cuts: Robust lung tumor delineation in MLCBCT. , 2018, 2018, 514-518.		2
74	Efficient intensity map splitting algorithms for intensity-modulated radiation therapy. Information Processing Letters, 2008, 106, 188-194.	0.4	1
75	Automated multilayer segmentation and characterization in 3D spectral-domain optical coherence tomography images. , 2013, , .		1
76	Spot Weight Adaptation for Moving Target in Spot Scanning Proton Therapy. Frontiers in Oncology, 2015, 5, 119.	1.3	1
77	Simultaneous Border Segmentation of Doughnut-Shaped Objects in Medical Images. Journal of Graph Algorithms and Applications, 2007, 11, 215-237.	0.4	1
78	Multiple Surface Segmentation Using Truncated Convex Priors. Lecture Notes in Computer Science, 2015, , 97-104.	1.0	1
79	Automated macular OCT retinal surface segmentation in cases of severe glaucoma using deep learning. , 2022, , .		1
80	Globally optimal 3D graph search incorporating both edge and regional information: application to aortic MR image segmentation. , 2009, , .		0
81	Fast globally optimal single surface segmentation using regional properties. , 2010, , .		0
82	Fast dynamic programming for labeling problems with ordering constraints. , 2012, , .		0
83	Efficient searching of globally optimal and smooth multisurfaces with shape priors. Proceedings of SPIE, 2012, , .	0.8	0
84	Incorporation of learned shape priors into a graph-theoretic approach with application to the 3D segmentation of intraretinal surfaces in SD-OCT volumes of mice. Proceedings of SPIE, 2014, , .	0.8	0
85	Graph Algorithmic Techniques for Biomedical Image Segmentation. , 2014, , 3-45.		0
86	Fully Automatic Segmentation of Hip CT Images via Random Forest Regression-Based Atlas Selection and Optimal Graph Search-Based Surface Detection. Lecture Notes in Computer Science, 2015, , 640-654.	1.0	0
87	Optimal surface segmentation with subvoxel accuracy in spectral domain optical coherence tomography images. , 2020, , 69-91.		0
88	Computing Regions Decomposable into m Stars. Lecture Notes in Computer Science, 2014, , 480-491.	1.0	0