

Xiaodong Wu

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

3,193
citations

279701

23
h-index

161767

54
g-index

88
all docs

88
docs citations

88
times ranked

2924
citing authors

#	ARTICLE	IF	CITATIONS
1	Globally optimal OCT surface segmentation using a constrained IPM optimization. Optics Express, 2022, 30, 2453.	1.7	9
2	Automated macular OCT retinal surface segmentation in cases of severe glaucoma using deep learning. , 2022, , .		1
3	Artificial intelligence enhanced two-dimensional nanoscale nuclear magnetic resonance spectroscopy. Npj Quantum Information, 2020, 6, .	2.8	8
4	¹⁶⁹ Yb-based rotating shield brachytherapy for prostate cancer. Medical Physics, 2020, 47, 6430-6439.	1.6	6
5	Optimal surface segmentation with subvoxel accuracy in spectral domain optical coherence tomography images. , 2020, , 69-91.		0
6	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
7	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
8	Efficient ¹⁶⁹ Yb high-dose-rate brachytherapy source production using reactivation. Medical Physics, 2019, 46, 2935-2943.	1.6	15
9	Optimal surface segmentation with convex priors in irregularly sampled space. Medical Image Analysis, 2019, 54, 63-75.	7.0	11
10	Deep segmentation networks predict survival of non-small cell lung cancer. Scientific Reports, 2019, 9, 17286.	1.6	59
11	Simultaneous cosegmentation of tumors in PET-CT images using deep fully convolutional networks. Medical Physics, 2019, 46, 619-633.	1.6	66
12	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
13	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
14	Multiple surface segmentation using convolution neural nets: application to retinal layer segmentation in OCT images. Biomedical Optics Express, 2018, 9, 4509.	1.5	95
15	Optimal multi-object segmentation with novel gradient vector flow based shape priors. Computerized Medical Imaging and Graphics, 2018, 69, 96-111.	3.5	11
16	3D fully convolutional networks for co-segmentation of tumors on PET-CT images. , 2018, 2018, 228-231.		60
17	Multi-scale segmentation using deep graph cuts: Robust lung tumor delineation in MCBCT. , 2018, 2018, 514-518.		2
18	Improving tumor co-segmentation on PET-CT images with 3D co-matting. , 2018, 2018, 224-227.		3

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19	Multisource Rotating Shield Brachytherapy Apparatus for Prostate Cancer. International Journal of Radiation Oncology Biology Physics, 2017, 99, 719-728.	0.4	12
20	Fast dose optimization for rotating shield brachytherapy. Medical Physics, 2017, 44, 5384-5392.	1.6	7
21	Simultaneous Multiple Surface Segmentation Using Deep Learning. Lecture Notes in Computer Science, 2017, , 3-11.	1.0	13
22	3D Alpha Matting Based Co-segmentation of Tumors on PET-CT Images. Lecture Notes in Computer Science, 2017, 10555, 31-42.	1.0	6
23	Multihelix rotating shield brachytherapy for cervical cancer. Medical Physics, 2015, 42, 6579-6588.	1.6	18
24	Fat water decomposition using globally optimal surface estimation (GOOSE) algorithm. Magnetic Resonance in Medicine, 2015, 73, 1289-1299.	1.9	37
25	Paddle-based rotating shield brachytherapy. Medical Physics, 2015, 42, 5992-6003.	1.6	16
26	Spot Weight Adaptation for Moving Target in Spot Scanning Proton Therapy. Frontiers in Oncology, 2015, 5, 119.	1.3	1
27	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
28	MASCG: Multi-Atlas Segmentation Constrained Graph method for accurate segmentation of hip CT images. Medical Image Analysis, 2015, 26, 173-184.	7.0	40
29	Multiple Surface Segmentation Using Truncated Convex Priors. Lecture Notes in Computer Science, 2015, , 97-104.	1.0	1
30	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
31	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
32	Asymmetric dose-volume optimization with smoothness control for rotating shield brachytherapy. Medical Physics, 2014, 41, 111709.	1.6	10
33	Interstitial rotating shield brachytherapy for prostate cancer. Medical Physics, 2014, 41, 051703.	1.6	30
34	Graph-based optimal multi-surface segmentation with a star-shaped prior: Application to the segmentation of the optic disc and cup. , 2014, , .		5
35	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
36	Graph Algorithmic Techniques for Biomedical Image Segmentation. , 2014, , 3-45.		0

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37	Error-Tolerant Scribbles Based Interactive Image Segmentation. , 2014, , .		41
38	Subvoxel Accurate Graph Search Using Non-Euclidean Graph Space. PLoS ONE, 2014, 9, e107763.	1.1	10
39	Computing Regions Decomposable into m Stars. Lecture Notes in Computer Science, 2014, , 480-491.	1.0	0
40	An almost linear time algorithm for field splitting in radiation therapy. Computational Geometry: Theory and Applications, 2013, 46, 673-687.	0.3	3
41	Rotating-shield brachytherapy for cervical cancer. Physics in Medicine and Biology, 2013, 58, 3931-3941.	1.6	26
42	Optimal Graph Search Based Segmentation of Airway Tree Double Surfaces Across Bifurcations. IEEE Transactions on Medical Imaging, 2013, 32, 493-510.	5.4	30
43	Optimal Co-Segmentation of Tumor in PET-CT Images With Context Information. IEEE Transactions on Medical Imaging, 2013, 32, 1685-1697.	5.4	112
44	Automated multilayer segmentation and characterization in 3D spectral-domain optical coherence tomography images. , 2013, , .		1
45	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
46	Optimal Multiple Surface Segmentation With Shape and Context Priors. IEEE Transactions on Medical Imaging, 2013, 32, 376-386.	5.4	99
47	Rapid emission angle selection for rotatingâ€shield brachytherapy. Medical Physics, 2013, 40, 051720.	1.6	11
48	Dynamic rotatingâ€shield brachytherapy. Medical Physics, 2013, 40, 121703.	1.6	20
49	Fast dynamic programming for labeling problems with ordering constraints. , 2012, , .		0
50	Efficient searching of globally optimal and smooth multisurfaces with shape priors. Proceedings of SPIE, 2012, , .	0.8	0
51	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
52	Feature guided motion artifact reduction with structure-awareness in 4D CT images. , 2011, 2011, 1057-1064.		7
53	Surfaceâ€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
54	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

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55	Characterization and identification of spatial artifacts during 4Dâ€CT imaging. Medical Physics, 2011, 38, 2074-2087.	1.6	28
56	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
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	Faster Segmentation Algorithm for Optical Coherence Tomography Images with Guaranteed Smoothness. Lecture Notes in Computer Science, 2011, , 308-316.	1.0	4
60	Optimal multiple-seams search for image resizing with smoothness and shape prior. Visual Computer, 2010, 26, 749-759.	2.5	15
61	LOGISMOSâ€™ 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
62	Fast globally optimal single surface segmentation using regional properties. , 2010, , .		0
63	Simultaneous searching of globally optimal interacting surfaces with shape priors. , 2010, , .		20
64	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
65	Optimal multiple surfaces searching for video/image resizing - a graph-theoretic approach. , 2009, , .		5
66	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
67	Globally optimal 3D graph search incorporating both edge and regional information: application to aortic MR image segmentation. , 2009, , .		0
68	Optimal graph search based image segmentation for objects with complex topologies. Proceedings of SPIE, 2009, , .	0.8	3
69	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
70	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
71	Efficient intensity map splitting algorithms for intensity-modulated radiation therapy. Information Processing Letters, 2008, 106, 188-194.	0.4	1
72	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

#	ARTICLE	IF	CITATIONS
73	Globally optimal surface segmentation using regional properties of segmented objects. , 2008, , .		2
74	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
75	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
76	Automated segmentation of intraretinal layers from macular optical coherence tomography images. , 2007, 6512, 385.		26
77	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
78	Use of Varying Constraints in Optimal 3-D Graph Search for Segmentation of Macular Optical Coherence Tomography Images. , 2007, 10, 244-251.		15
79	Simultaneous Border Segmentation of Doughnut-Shaped Objects in Medical Images. Journal of Graph Algorithms and Applications, 2007, 11, 215-237.	0.4	1
80	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
81	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
82	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
83	Simultaneous Segmentation of Multiple Closed Surfaces Using Optimal Graph Searching. Lecture Notes in Computer Science, 2005, 19, 406-417.	1.0	41
84	Segmenting Doughnut-Shaped Objects in Medical Images. Lecture Notes in Computer Science, 2003, , 375-384.	1.0	2
85	Optimal Net Surface Problems with Applications. Lecture Notes in Computer Science, 2002, , 1029-1042.	1.0	70
86	IMAGE SEGMENTATION WITH ASTEROIDALITY/TUBULARITY AND SMOOTHNESS CONSTRAINTS. International Journal of Computational Geometry and Applications, 2002, 12, 413-428.	0.3	12
87	Determining an Optimal Penetration Among Weighted Regions in Two and Three Dimensions. Journal of Combinatorial Optimization, 2001, 5, 59-79.	0.8	25
88	Globally optimal segmentation of interacting surfaces with geometric constraints. , 0, , .		10