

# Gregory Slabaugh

## List of Publications by Year in descending order

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Version: 2024-02-01

118  
papers

3,231  
citations

304368

22  
h-index

182168

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122  
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122  
docs citations

122  
times ranked

3577  
citing authors

#	ARTICLE	IF	CITATIONS
1	CBREN: Convolutional Neural Networks for Constant Bit Rate Video Quality Enhancement. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 4138-4149.	5.6	5
2	Constrained Predictive Filters for Single Image Bokeh Rendering. IEEE Transactions on Computational Imaging, 2022, 8, 346-357.	2.6	11
3	PROPEL: Probabilistic Parametric Regression Loss for Convolutional Neural Networks. , 2021, , .		1
4	A continual learning survey: Defying forgetting in classification tasks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	367
5	DeepfMRI: End-to-end deep learning for functional connectivity and classification of ADHD using fMRI. Journal of Neuroscience Methods, 2020, 335, 108506.	1.3	79
6	NTIRE 2020 Challenge on Real Image Denoising: Dataset, Methods and Results. , 2020, , .		34
7	NTIRE 2020 Challenge on Image Demoiréing: Methods and Results. , 2020, , .		15
8	A Multi-Hypothesis Approach to Color Constancy. , 2020, , .		21
9	Image Demoiréing with Learnable Bandpass Filters. , 2020, , .		43
10	DeepLPF: Deep Local Parametric Filters for Image Enhancement. , 2020, , .		106
11	TESA: Tensor Element Self-Attention via Matricization. , 2020, , .		9
12	Unsupervised Model Personalization While Preserving Privacy and Scalability: An Open Problem. , 2020, , .		8
13	Video Super-Resolution With Temporal Group Attention. , 2020, , .		102
14	Low Light Video Enhancement Using Synthetic Data Produced with an Intermediate Domain Mapping. Lecture Notes in Computer Science, 2020, , 103-119.	1.0	15
15	More Classifiers, Less Forgetting: A Generic Multi-classifier Paradigm for Incremental Learning. Lecture Notes in Computer Science, 2020, , 699-716.	1.0	29
16	Reconstructing the Noise Variance Manifold for Image Denoising. Lecture Notes in Computer Science, 2020, , 622-639.	1.0	3
17	Optical imaging technology in colonoscopy: Is there a role for photometric stereo?. World Journal of Gastrointestinal Endoscopy, 2020, 12, 138-148.	0.4	0
18	Wavelet-Based Dual-Branch Network for Image Demoiréing. Lecture Notes in Computer Science, 2020, , 86-102.	1.0	25

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19	Macrosight: A Novel Framework to Analyze the Shape and Movement of Interacting Macrophages Using Matlab®. Journal of Imaging, 2019, 5, 17.	1.7	3
20	AIM 2019 Challenge on Image Demoiring: Dataset and Study. , 2019, , .		19
21	AIM 2019 Challenge on Image Demoiring: Methods and Results. , 2019, , .		13
22	SteReFo: Efficient Image Refocusing with Stereo Vision. , 2019, , .		19
23	Fully automatic segmentation and objective assessment of atrial scars for long-standing persistent atrial fibrillation patients using late gadolinium-enhanced <scp>MRI</scp>. Medical Physics, 2018, 45, 1562-1576.	1.6	39
24	DAGAN: Deep De-Aliasing Generative Adversarial Networks for Fast Compressed Sensing MRI Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 1310-1321.	5.4	724
25	Fully automatic cervical vertebrae segmentation framework for X-ray images. Computer Methods and Programs in Biomedicine, 2018, 157, 95-111.	2.6	83
26	Fusion of fMRI and non-imaging data for ADHD classification. Computerized Medical Imaging and Graphics, 2018, 65, 115-128.	3.5	78
27	Distinct patterns of variation in the distribution of knee pain. Scientific Reports, 2018, 8, 16522.	1.6	25
28	SPNet: Shape Prediction Using a Fully Convolutional Neural Network. Lecture Notes in Computer Science, 2018, , 430-439.	1.0	11
29	Segmentation and Shape Analysis of Macrophages Using Anglegram Analysis. Journal of Imaging, 2018, 4, 2.	1.7	8
30	Shape analysis and tracking of migrating macrophages. , 2018, , .		3
31	Stacked Sparse Autoencoders for EMG-Based Classification of Hand Motions: A Comparative Multi Day Analyses between Surface and Intramuscular EMG. Applied Sciences (Switzerland), 2018, 8, 1126.	1.3	45
32	Data-driven recovery of hand depth using CRRF on stereo images. IET Computer Vision, 2018, 12, 666-678.	1.3	2
33	Deep fMRI: AN end-to-end deep network for classification of fMRI data. , 2018, , .		40
34	Generating Magnetic Resonance Spectroscopy Imaging Data of Brain Tumours from Linear, Non-linear and Deep Learning Models. Lecture Notes in Computer Science, 2018, , 130-138.	1.0	5
35	Shape-Aware Deep Convolutional Neural Network for Vertebrae Segmentation. Lecture Notes in Computer Science, 2018, , 12-24.	1.0	18
36	Automated Quantification of Non-Calcified Coronary Plaques in Cardiac CT Angiographic Imagery. International Journal of Advanced Computer Science and Applications, 2018, 9, .	0.5	3

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37	Automated framework for CTA coronary segmentation and quantitative validation. , 2017, , .		2
38	SPORE: Staged Probabilistic Regression for Hand Orientation Inference. Computer Vision and Image Understanding, 2017, 161, 114-129.	3.0	3
39	A hybrid energy model for region based curve evolution “ Application to CTA coronary segmentation. Computer Methods and Programs in Biomedicine, 2017, 144, 189-202.	2.6	7
40	Patch-based corner detection for cervical vertebrae in X-ray images. Signal Processing: Image Communication, 2017, 59, 27-36.	1.8	11
41	Deep learning for single-molecule science. Nanotechnology, 2017, 28, 423001.	1.3	54
42	Framework for detection and localization of coronary non-calcified plaques in cardiac CTA using mean radial profiles. Computers in Biology and Medicine, 2017, 89, 84-95.	3.9	20
43	A fully automatic deep learning method for atrial scarring segmentation from late gadolinium-enhanced MRI images. , 2017, , .		9
44	Hand Pose Estimation Using Deep Stereovision and Markov-Chain Monte Carlo. , 2017, , .		5
45	Conditional Regressive Random Forest Stereo-Based Hand Depth Recovery. , 2017, , .		0
46	Learning to Deblur Adaptive Optics Retinal Images. Lecture Notes in Computer Science, 2017, , 497-506.	1.0	2
47	Segmenting Atrial Fibrosis from Late Gadolinium-Enhanced Cardiac MRI by Deep-Learned Features with Stacked Sparse Auto-Encoders. Communications in Computer and Information Science, 2017, , 195-206.	0.4	8
48	FCNet: A Convolutional Neural Network for Calculating Functional Connectivity from Functional MRI. Lecture Notes in Computer Science, 2017, , 70-78.	1.0	31
49	Region-Aware Deep Localization Framework for Cervical Vertebrae in X-Ray Images. Lecture Notes in Computer Science, 2017, , 74-82.	1.0	3
50	Multi-atlas propagation based left atrium segmentation coupled with super-voxel based pulmonary veins delineation in late gadolinium-enhanced cardiac MRI. Proceedings of SPIE, 2017, , .	0.8	4
51	Improved CTA Coronary Segmentation with a Volume-Specific Intensity Threshold. Communications in Computer and Information Science, 2017, , 207-218.	0.4	0
52	Segmentation of Overlapping Macrophages Using Anglegram Analysis. Communications in Computer and Information Science, 2017, , 792-803.	0.4	0
53	Pairwise mixture model for unmixing partial volume effect in multi-voxel MR spectroscopy of brain tumour patients. Proceedings of SPIE, 2017, , .	0.8	2
54	Differentiation of pre-ablation and post-ablation late gadolinium-enhanced cardiac MRI scans of longstanding persistent atrial fibrillation patients. , 2017, , .		0

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55	Learning Marginalization through Regression for Hand Orientation Inference. , 2016, , .		2
56	Super-Resolved Enhancement of a Single Image and Its Application in Cardiac MRI. Lecture Notes in Computer Science, 2016, , 179-190.	1.0	1
57	Combined self-learning based single-image super-resolution and dual-tree complex wavelet transform denoising for medical images. , 2016, , .		4
58	Supervised partial volume effect unmixing for brain tumor characterization using multi-voxel MR spectroscopic imaging. , 2016, , .		2
59	Trend deviation analysis for automated detection of defects in GPR data for road condition surveys. , 2016, , .		3
60	Improving an Active Shape Model with Random Classification Forest for Segmentation of Cervical Vertebrae. Lecture Notes in Computer Science, 2016, , 3-15.	1.0	11
61	Global Localization and Orientation of the Cervical Spine in X-ray Images. Lecture Notes in Computer Science, 2016, , 64-76.	1.0	1
62	Generating a 3D Hand Model from Frontal Color and Range Scans. , 2015, , .		0
63	Cervical vertebral corner detection using haar-like features and modified hough forest. , 2015, , .		5
64	Semi-automatic delineation of the spino-laminar junction curve on lateral x-ray radiographs of the cervical spine. , 2015, , .		0
65	Detection of degenerative change in lateral projection cervical spine x-ray images. , 2015, , .		3
66	Discrete Wavelet Transform-Based Whole-Spectral and Subspectral Analysis for Improved Brain Tumor Clustering Using Single Voxel MR Spectroscopy. IEEE Transactions on Biomedical Engineering, 2015, 62, 2860-2866.	2.5	27
67	Multilabel Region Classification and Semantic Linking for Colon Segmentation in CT Colonography. IEEE Transactions on Biomedical Engineering, 2015, 62, 948-959.	2.5	20
68	Quantized Census for Stereoscopic Image Matching. , 2014, , .		5
69	Hand Orientation Regression Using Random Forest for Augmented Reality. Lecture Notes in Computer Science, 2014, , 159-174.	1.0	6
70	Erosion band signatures for spatial extraction of features. Machine Vision and Applications, 2013, 24, 695-705.	1.7	5
71	Endoluminal surface registration for CT colonography using hausdorff fold matching. Medical Image Analysis, 2013, 17, 946-958.	7.0	12
72	CT Colonography: External Clinical Validation of an Algorithm for Computer-assisted Prone and Supine Registration. Radiology, 2013, 268, 752-760.	3.6	6

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73	Automatic Segmentation of Polyps in Colonoscopic Narrow-Band Imaging Data. IEEE Transactions on Biomedical Engineering, 2012, 59, 2144-2151.	2.5	69
74	A Model-Driven Bayesian Method for Polyp Detection and False Positive Suppression in CT Colonography Computer-Aided Detection. Advances in Bioinformatics and Biomedical Engineering Book Series, 2012, , 220-237.	0.2	1
75	Prone to Supine CT Colonography Registration Using a Landmark and Intensity Composite Method. Lecture Notes in Computer Science, 2012, , 1-9.	1.0	2
76	Concavity analysis for reduction of ileocecal valve false positives in CTC. , 2011, , .		0
77	A robust and efficient approach to detect 3D rectal tubes from CT colonography. Medical Physics, 2011, 38, 6238-6247.	1.6	1
78	Registration of the endoluminal surfaces of the colon derived from prone and supine CT colonography. Medical Physics, 2011, 38, 3077-3089.	1.6	25
79	Generating shapes by analogies: An application to hearing aid design. CAD Computer Aided Design, 2011, 43, 47-56.	1.4	3
80	Automatic Prone to Supine Haustral Fold Matching in CT Colonography Using a Markov Random Field Model. Lecture Notes in Computer Science, 2011, 14, 508-515.	1.0	9
81	Learning to Detect 3D Rectal Tubes in CT Colonography Using a Global Shape Model. Lecture Notes in Computer Science, 2011, , 53-59.	1.0	1
82	A Bayesian Approach for False Positive Reduction in CTC CAD. Lecture Notes in Computer Science, 2011, , 40-46.	1.0	0
83	Feature selection for computer-aided polyp detection using MRMR. , 2010, , .		1
84	3D ball skinning using PDEs for generation of smooth tubular surfaces. CAD Computer Aided Design, 2010, 42, 18-26.	1.4	13
85	A Robust and Fast System for CTC Computer-Aided Detection of Colorectal Lesions. Algorithms, 2010, 3, 21-43.	1.2	29
86	Multicore Image Processing with OpenMP [Applications Corner. IEEE Signal Processing Magazine, 2010, 27, 134-138.	4.6	42
87	Automatic Graph Cut Segmentation of Lesions in CT Using Mean Shift Superpixels. International Journal of Biomedical Imaging, 2010, 2010, 1-14.	3.0	39
88	Automatic Detection of Anatomical Features on 3D Ear Impressions for Canonical Representation. Lecture Notes in Computer Science, 2010, 13, 555-562.	1.0	7
89	Establishing Spatial Correspondence between the Inner Colon Surfaces from Prone and Supine CT Colonography. Lecture Notes in Computer Science, 2010, 13, 497-504.	1.0	6
90	Shape-based ct lung nodule segmentation using five-dimensional mean shift clustering and MEM with shape information. , 2009, , .		0

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91	Fast pseudo-enhancement correction in CT colonography using linear shift-invariant filters. , 2009, , .		1
92	Enhanced detection in CT colonography using adaptive diffusion filtering. , 2009, , .		1
93	Image segmentation using joint spatial-intensity-shape features: application to CT lung nodule segmentation. , 2009, , .		3
94	Shape-Based Computer-Aided Detection of Lung Nodules in Thoracic CT Images. IEEE Transactions on Biomedical Engineering, 2009, 56, 1810-1820.	2.5	254
95	Statistical Region-Based Segmentation of Ultrasound Images. Ultrasound in Medicine and Biology, 2009, 35, 781-795.	0.7	39
96	Pearling: Stroke segmentation with crusted pearl strings. Pattern Recognition and Image Analysis, 2009, 19, 277-283.	0.6	10
97	3-D statistical shape modeling and application to prototyping of hearing aids. , 2009, , .		0
98	Estimation of Vector Fields in Unconstrained and Inequality Constrained Variational Problems for Segmentation and Registration. Journal of Mathematical Imaging and Vision, 2008, 31, 57-72.	0.8	4
99	Guest Editorial Introduction to the Special Section on Computer Vision for Intravascular and Intracardiac Imaging. IEEE Transactions on Information Technology in Biomedicine, 2008, 12, 273-276.	3.6	0
100	Shape-Driven Segmentation of the Arterial Wall in Intravascular Ultrasound Images. IEEE Transactions on Information Technology in Biomedicine, 2008, 12, 335-347.	3.6	115
101	3-D shape modeling for hearing aid design [Applications Corner]. IEEE Signal Processing Magazine, 2008, 25, 98-102.	4.6	12
102	Guidewire tracking in x-ray videos of endovascular interventions. , 2008, , .		0
103	Automatic tracing of blood flow velocity in pulsed Doppler images. , 2008, , .		2
104	Partial differential equation-based GPR signature discrimination for automatic detection of bridge deck delamination. , 2008, , .		1
105	Semi-automatic matching of OCT and IVUS images for image fusion. Proceedings of SPIE, 2008, , .	0.8	6
106	Impact Echo Data from Bridge Deck Testing. Transportation Research Record, 2008, 2050, 111-121.	1.0	24
107	Customized Design of Hearing Aids Using Statistical Shape Learning. Lecture Notes in Computer Science, 2008, 11, 518-526.	1.0	7
108	REGISTRATION OF ULTRASOUND IMAGES USING AN INFORMATION-THEORETIC FEATURE DETECTOR. , 2007, , .		12

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109	An information-theoretic detector based scheme for registration of speckled medical images. , 2007, , .		2
110	A Variational Approach to Problems in Calibration of Multiple Cameras. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1322-1338.	9.7	41
111	Efficient segmentation based on Eikonal and diffusion equations. International Journal of Computer Mathematics, 2007, 84, 1309-1324.	1.0	21
112	A Variational Approach to the Evolution of Radial Basis Functions for Image Segmentation. , 2007, , .		8
113	Variational Guidewire Tracking Using Phase Congruency. , 2007, 10, 612-619.		15
114	Information-Theoretic Feature Detection in Ultrasound Images. , 2006, 2006, 2638-42.		9
115	Anatomically-Aware, Automatic, and Fast Registration of 3D Ear Impression Models. , 2006, , .		4
116	Semi-Automatic 3-D Segmentation of Anatomical Structures of Brain MRI Volumes using Graph Cuts. , 2006, , .		1
117	Methods for Volumetric Reconstruction of Visual Scenes. International Journal of Computer Vision, 2004, 57, 179-199.	10.9	76
118	Image-based photo hulls for fast and photo-realistic new view synthesis. Real Time Imaging, 2003, 9, 347-360.	1.6	16