

# Anthony Yezzi

## List of Publications by Year in descending order

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96  
papers

4,011  
citations

159358

30  
h-index

123241

61  
g-index

98  
all docs

98  
docs citations

98  
times ranked

3125  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coverage Control of Mobile Robots With Different Maximum Speeds for Time-Sensitive Applications. IEEE Robotics and Automation Letters, 2022, 7, 3001-3007.	3.3	10
2	Clinically viable myocardial CCTA segmentation for measuring vessel-specific myocardial blood flow from dynamic PET/CCTA hybrid fusion. European Journal of Hybrid Imaging, 2022, 6, 4.	0.6	1
3	Accelerated Optimization in the PDE Framework: Formulations for the Manifold of Diffeomorphisms. SIAM Journal on Imaging Sciences, 2022, 15, 324-366.	1.3	1
4	Radar-Based Shape and Reflectivity Reconstruction Using Active Surfaces and the Level Set Method. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-1.	9.7	0
5	Deep learning approach for the segmentation of aneurysmal ascending aorta. Biomedical Engineering Letters, 2021, 11, 15-24.	2.1	40
6	Deep Learning-Based Methods for Prostate Segmentation in Magnetic Resonance Imaging. Applied Sciences (Switzerland), 2021, 11, 782.	1.3	46
7	Dependently Coupled Principal Component Analysis for Bivariate Inversion Problems. , 2021, 2020, .		1
8	Verifying the Causes of Adversarial Examples. , 2021, , .		0
9	Deep Learning Wholeâ€œGland and Zonal Prostate Segmentation on a Public <scp>MRI</scp> Dataset. Journal of Magnetic Resonance Imaging, 2021, 54, 452-459.	1.9	55
10	Multitask 3D CBCTâ€œtoâ€œCT translation and organsâ€œatâ€œrisk segmentation using physicsâ€œbased data augmentation. Medical Physics, 2021, 48, 5130-5141.	1.6	19
11	Directionally Paired Principal Component Analysis for Bivariate Estimation Problems. , 2021, 2020, .		1
12	Accelerated Variational PDEs for Efficient Solution of Regularized Inversion Problems. Journal of Mathematical Imaging and Vision, 2020, 62, 10-36.	0.8	11
13	Lung Segmentation on High-Resolution Computerized Tomography Images Using Deep Learning: A Preliminary Step for Radiomics Studies. Journal of Imaging, 2020, 6, 125.	1.7	31
14	Performance of Radiomics Features in the Quantification of Idiopathic Pulmonary Fibrosis from HRCT. Diagnostics, 2020, 10, 306.	1.3	35
15	Development of a new fully three-dimensional methodology for tumours delineation in functional images. Computers in Biology and Medicine, 2020, 120, 103701.	3.9	31
16	Tissue Classification to Support Local Active Delineation of Brain Tumors. Communications in Computer and Information Science, 2020, , 3-14.	0.4	23
17	Accelerated Optimization in the PDE Framework Formulations for the Active Contour Case. SIAM Journal on Imaging Sciences, 2020, 13, 2029-2062.	1.3	2
18	An Interactive Control Approach to 3D Shape Reconstruction. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	PDE acceleration: a convergence rate analysis and applications to obstacle problems. Research in Mathematical Sciences, 2019, 6, 1.	0.5	6
20	K-nearest neighbor driving active contours to delineate biological tumor volumes. Engineering Applications of Artificial Intelligence, 2019, 81, 133-144.	4.3	35
21	PDE Acceleration for Active Contours. , 2019, , .		1
22	Active contour algorithm with discriminant analysis for delineating tumors in positron emission tomography. Artificial Intelligence in Medicine, 2019, 94, 67-78.	3.8	36
23	Developing a Geometric Deformable Model for Radar Shape Inversion. , 2018, , .		0
24	SHAPE ADAPTIVE ACCELERATED PARAMETER OPTIMIZATION. , 2018, , .		1
25	A smart and operator independent system to delineate tumours in Positron Emission Tomography scans. Computers in Biology and Medicine, 2018, 102, 1-15.	3.9	26
26	Integrated 3D Anatomical Model for Automatic Myocardial Segmentation in Cardiac CT Imagery. Lecture Notes in Computational Vision and Biomechanics, 2018, , 1115-1124.	0.5	2
27	Robust image registration with global intensity transformation. , 2015, , .		2
28	A Compact Formula for the Derivative of a 3-D Rotation in Exponential Coordinates. Journal of Mathematical Imaging and Vision, 2015, 51, 378-384.	0.8	57
29	A Complete System for Automatic Extraction of Left Ventricular Myocardium From CT Images Using Shape Segmentation and Contour Evolution. IEEE Transactions on Image Processing, 2014, 23, 1340-1351.	6.0	10
30	Efficient Foraging Strategies in Multi-Agent Systems Through Curve Evolutions. IEEE Transactions on Automatic Control, 2014, 59, 1036-1041.	3.6	11
31	Erratum to "Detecting Curves with Unknown Endpoints and Arbitrary Topology Using Minimal Paths". IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, web-web.	9.7	0
32	Tracking Using Motion Estimation With Physically Motivated Inter-Region Constraints. IEEE Transactions on Medical Imaging, 2014, 33, 1875-1889.	5.4	5
33	Automatic detection of left and right ventricles from CTA enables efficient alignment of anatomy with myocardial perfusion data. Journal of Nuclear Cardiology, 2014, 21, 96-108.	1.4	6
34	Automating the crack map detection process for machine operated crack sealer. Automation in Construction, 2013, 31, 10-18.	4.8	34
35	Automatic Segmentation of the Left Atrium From MR Images via Variational Region Growing With a Moments-Based Shape Prior. IEEE Transactions on Image Processing, 2013, 22, 5111-5122.	6.0	37
36	Variational Stereo Imaging of Oceanic Waves With Statistical Constraints. IEEE Transactions on Image Processing, 2013, 22, 4211-4223.	6.0	6

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37	Automatic Delineation of the Myocardial Wall From CT Images Via Shape Segmentation and Variational Region Growing. IEEE Transactions on Biomedical Engineering, 2013, 60, 2887-2895.	2.5	24
38	Symmetric Fast Marching Schemes for Better Numerical Isotropy. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2298-2304.	9.7	3
39	Space-time measurements of oceanic sea states. Ocean Modelling, 2013, 70, 103-115.	1.0	71
40	Vessel Tractography Using an Intensity Based Tensor Model With Branch Detection. IEEE Transactions on Medical Imaging, 2013, 32, 348-363.	5.4	60
41	Automatic segmentation of the left atrium from MRI images using salient feature and contour evolution. , 2012, 2012, 3211-4.		4
42	Translation, Scale, and Deformation Weighted Polar Active Contours. Journal of Mathematical Imaging and Vision, 2012, 44, 354-365.	0.8	1
43	Detecting Curves with Unknown Endpoints and Arbitrary Topology Using Minimal Paths. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1952-1965.	9.7	87
44	Euler characteristics of oceanic sea states. Mathematics and Computers in Simulation, 2012, 82, 1102-1111.	2.4	19
45	Weak Statistical Constraints for Variational Stereo Imaging of Oceanic Waves. Lecture Notes in Computer Science, 2012, , 520-531.	1.0	2
46	Multiple Object Tracking via Prediction and Filtering with a Sobolev-Type Metric on Curves. Lecture Notes in Computer Science, 2012, , 143-152.	1.0	0
47	Optimization of foraging multi-agent system front: A flux-based curve evolution method. , 2011, , .		1
48	A New Geometric Metric in the Space of Curves, and Applications to Tracking Deforming Objects by Prediction and Filtering. SIAM Journal on Imaging Sciences, 2011, 4, 109-145.	1.3	65
49	A Nonrigid Kernel-Based Framework for 2D-3D Pose Estimation and 2D Image Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 1098-1115.	9.7	21
50	A Variational Stereo Method for the Three-Dimensional Reconstruction of Ocean Waves. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4445-4457.	2.7	46
51	Biologically motivated shape optimization of foraging fronts. , 2011, , .		2
52	Localized principal component analysis based curve evolution: A divide and conquer approach. , 2011, 2011, 1981-1986.		8
53	A regions of confidence based approach to enhance segmentation with shape priors. , 2010, 7533, .		10
54	Deform PF-MT: Particle Filter With Mode Tracker for Tracking Nonaffine Contour Deformations. IEEE Transactions on Image Processing, 2010, 19, 841-857.	6.0	30

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55	A Geometric Approach to Joint 2D Region-Based Segmentation and 3D Pose Estimation Using a 3D Shape Prior. SIAM Journal on Imaging Sciences, 2010, 3, 110-132.	1.3	25
56	Tracking deforming objects by filtering and prediction in the space of curves. , 2009, , .		12
57	Joint Brain Parametric -Map Segmentation and RF Inhomogeneity Calibration. International Journal of Biomedical Imaging, 2009, 2009, 1-14.	3.0	5
58	New Possibilities with Sobolev Active Contours. International Journal of Computer Vision, 2009, 84, 113-129.	10.9	41
59	Brain MRI T<math>\rho</math>-Map and T<math>\rho</math>-weighted image segmentation in a variational framework. , 2009, , .		2
60	Non-rigid 2D-3D pose estimation and 2D image segmentation. , 2009, , .		19
61	3D Multi-branch Tubular Surface and Centerline Extraction with 4D Iterative Key Points. Lecture Notes in Computer Science, 2009, 12, 1042-1050.	1.0	25
62	Non-rigid 2D-3D pose estimation and 2D image segmentation. , 2009, , .		2
63	3-D Reconstruction of Shaded Objects from Multiple Images Under Unknown Illumination. International Journal of Computer Vision, 2008, 76, 245-256.	10.9	39
64	Automatic Pixel Geo-Registration for Aerial Systems: An Integrated Approach. , 2008, , .		0
65	Hyperspectral Imaging Based Persistent Surveillance. , 2008, , .		2
66	Coarse-to-Fine Segmentation and Tracking Using Sobolev Active Contours. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 851-864.	9.7	66
67	TAC: Thresholding active contours. , 2008, , .		1
68	Wave Statistics and Spectra via a Variational Wave Acquisition Stereo System. , 2008, , .		13
69	Robust 3D Pose Estimation and Efficient 2D Region-Based Segmentation from a 3D Shape Prior. Lecture Notes in Computer Science, 2008, , 169-182.	1.0	35
70	Global Regularizing Flows With Topology Preservation for Active Contours and Polygons. IEEE Transactions on Image Processing, 2007, 16, 803-812.	6.0	28
71	3D Topology Preserving Flows for Viewpoint-Based Cortical Unfolding. , 2007, , .		0
72	Hybrid geodesic region-based curve evolutions for image segmentation. , 2007, , .		66

#	ARTICLE	IF	CITATIONS
73	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
74	Tracking Deforming Objects Using Particle Filtering for Geometric Active Contours. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1470-1475.	9.7	156
75	Local or Global Minima: Flexible Dual-Front Active Contours. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1-14.	9.7	141
76	Vessels as 4-D Curves: Global Minimal 4-D Paths to Extract 3-D Tubular Surfaces and Centerlines. IEEE Transactions on Medical Imaging, 2007, 26, 1213-1223.	5.4	170
77	Sobolev Active Contours. International Journal of Computer Vision, 2007, 73, 345-366.	10.9	139
78	3D Brain Segmentation Using Dual-Front Active Contours with Optional User Interaction. International Journal of Biomedical Imaging, 2006, 2006, 1-17.	3.0	22
79	Harmonic Embeddings for Linear Shape Analysis. Journal of Mathematical Imaging and Vision, 2006, 25, 341-352.	0.8	4
80	Curve Shortening and Interacting Particle Systems. Modeling and Simulation in Science, Engineering and Technology, 2006, , 303-311.	0.4	2
81	Information-Theoretic Active Polygons for Unsupervised Texture Segmentation. International Journal of Computer Vision, 2005, 62, 199-220.	10.9	57
82	Fast incorporation of optical flow into active polygons. IEEE Transactions on Image Processing, 2005, 14, 745-759.	6.0	18
83	A nonparametric statistical method for image segmentation using information theory and curve evolution. IEEE Transactions on Image Processing, 2005, 14, 1486-1502.	6.0	249
84	Local or Global Minima: Flexible Dual-Front Active Contours. Lecture Notes in Computer Science, 2005, , 356-366.	1.0	5
85	Vessel Segmentation Using a Shape Driven Flow. Lecture Notes in Computer Science, 2004, , 51-59.	1.0	88
86	Stereoscopic Segmentation. International Journal of Computer Vision, 2003, 53, 31-43.	10.9	81
87	A shape-based approach to the segmentation of medical imagery using level sets. IEEE Transactions on Medical Imaging, 2003, 22, 137-154.	5.4	735
88	The Mumford-Shah Functional: From Segmentation to Stereo. The IMA Volumes in Mathematics and Its Applications, 2003, , 125-147.	0.5	4
89	Stochastic differential equations and geometric flows. IEEE Transactions on Image Processing, 2002, 11, 1405-1416.	6.0	21
90	A Fully Global Approach to Image Segmentation via Coupled Curve Evolution Equations. Journal of Visual Communication and Image Representation, 2002, 13, 195-216.	1.7	272

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91	4D Active Surfaces for Cardiac Analysis. Lecture Notes in Computer Science, 2002, , 667-673.	1.0	3
92	Visual Tracking and Object Recognition. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 1539-1542.	0.4	0
93	Visual tracking, active vision, and gradient flows. , 1998, , 183-194.		3
94	Gradients, Curvature, and Visual Tracking. , 1998, , 375-390.		0
95	Differential Invariants and Curvature Flows in Active Vision. European Consortium for Mathematics in Industry, 1997, , 196-213.	0.4	0
96	Conformal curvature flows: From phase transitions to active vision. Archive for Rational Mechanics and Analysis, 1996, 134, 275-301.	1.1	366