

# Dimitris Metaxas

## List of Publications by Year in descending order

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134  
papers

6,002  
citations

236612

25  
h-index

182168

51  
g-index

135  
all docs

135  
docs citations

135  
times ranked

4571  
citing authors

#	ARTICLE	IF	CITATIONS
1	StackGAN: Text to Photo-Realistic Image Synthesis with Stacked Generative Adversarial Networks. , 2017, , .		1,445
2	Realistic Animation of Liquids. Graphical Models, 1996, 58, 471-483.	1.4	497
3	Semantic Graph Convolutional Networks for 3D Human Pose Regression. , 2019, , .		303
4	Optical Flow Constraints on Deformable Models with Applications to Face Tracking. International Journal of Computer Vision, 2000, 38, 99-127.	10.9	249
5	A Framework for Recognizing the Simultaneous Aspects of American Sign Language. Computer Vision and Image Understanding, 2001, 81, 358-384.	3.0	234
6	Abnormal detection using interaction energy potentials. , 2011, , .		162
7	Conditional models for contextual human motion recognition. Computer Vision and Image Understanding, 2006, 104, 210-220.	3.0	157
8	UTNet: A Hybrid Transformer Architecture for Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 61-71.	1.0	156
9	Deformable segmentation via sparse representation and dictionary learning. Medical Image Analysis, 2012, 16, 1385-1396.	7.0	140
10	Jointly Optimize Data Augmentation and Network Training: Adversarial Data Augmentation in Human Pose Estimation. , 2018, , .		133
11	Automatic image annotation using group sparsity. , 2010, , .		132
12	High Resolution Acquisition, Learning and Transfer of Dynamic 3-D Facial Expressions. Computer Graphics Forum, 2004, 23, 677-686.	1.8	106
13	Learning active facial patches for expression analysis. , 2012, , .		106
14	]Video object segmentation by hypergraph cut. , 2009, , .		105
15	Reconstruction-Based Disentanglement for Pose-Invariant Face Recognition. , 2017, , .		105
16	Boosting Coded Dynamic Features for Facial Action Units and Facial Expression Recognition. , 2007, , .		87
17	Quantized Densely Connected U-Nets for Efficient Landmark Localization. Lecture Notes in Computer Science, 2018, , 348-364.	1.0	83
18	A Recurrent Encoder-Decoder Network for Sequential Face Alignment. Lecture Notes in Computer Science, 2016, , 38-56.	1.0	81

#	ARTICLE	IF	CITATIONS
19	CR-GAN: Learning Complete Representations for Multi-view Generation. , 2018, , .		78
20	Attentive neural cell instance segmentation. Medical Image Analysis, 2019, 55, 228-240.	7.0	64
21	Metamorphs: Deformable Shape and Appearance Models. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1444-1459.	9.7	60
22	Exploring facial expressions with compositional features. , 2010, , .		55
23	FocusNetv2: Imbalanced large and small organ segmentation with adversarial shape constraint for head and neck CT images. Medical Image Analysis, 2021, 67, 101831.	7.0	54
24	Large-Scale medical image analytics: Recent methodologies, applications and Future directions. Medical Image Analysis, 2016, 33, 98-101.	7.0	50
25	Simulation of twoâ€phase flow with subâ€scale droplet and bubble effects. Computer Graphics Forum, 2009, 28, 229-238.	1.8	45
26	A computer vision based method for 3D posture estimation of symmetrical lifting. Journal of Biomechanics, 2018, 69, 40-46.	0.9	45
27	Learning to Forecast and Refine Residual Motion for Image-to-Video Generation. Lecture Notes in Computer Science, 2018, , 403-419.	1.0	44
28	MRI Reconstruction Via Cascaded Channel-Wise Attention Network. , 2019, , .		42
29	A review of motion analysis methods for human Nonverbal Communication Computing. Image and Vision Computing, 2013, 31, 421-433.	2.7	41
30	A homotopy-based sparse representation for fast and accurate shape prior modeling in liver surgical planning. Medical Image Analysis, 2015, 19, 176-186.	7.0	40
31	CELL SEGMENTATION AND TRACKING USING TEXTURE-ADAPTIVE SNAKES. , 2007, , .		36
32	Investigating the Discriminative Power of Keystroke Sound. IEEE Transactions on Information Forensics and Security, 2015, 10, 333-345.	4.5	36
33	Genetic mutation and biological pathway prediction based on whole slide images in breast carcinoma using deep learning. Npj Precision Oncology, 2021, 5, 87.	2.3	36
34	Multi-scale Cell Instance Segmentation with Keypoint Graph Based Bounding Boxes. Lecture Notes in Computer Science, 2019, , 369-377.	1.0	35
35	RankBoost with l1 regularization for facial expression recognition and intensity estimation. , 2009, , .		34
36	Deformable models with sparsity constraints for cardiac motion analysis. Medical Image Analysis, 2014, 18, 927-937.	7.0	34

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37	Vertebra-Focused Landmark Detection for Scoliosis Assessment. , 2020, , .		34
38	SCPM-Net: An anchor-free 3D lung nodule detection network using sphere representation and center points matching. Medical Image Analysis, 2022, 75, 102287.	7.0	34
39	Scalable histopathological image analysis via supervised hashing with multiple features. Medical Image Analysis, 2016, 34, 3-12.	7.0	32
40	PIEFA: Personalized Incremental and Ensemble Face Alignment. , 2015, , .		30
41	An efficient conditional random field approach for automatic and interactive neuron segmentation. Medical Image Analysis, 2016, 27, 31-44.	7.0	29
42	The Best of Both Worlds: Combining 3D Deformable Models with Active Shape Models. , 2007, , .		26
43	Joint Segmentation and Fine-Grained Classification of Nuclei in Histopathology Images. , 2019, , .		26
44	A Component Based Deformable Model for Generalized Face Alignment. , 2007, , .		25
45	From circle to 3-sphere: Head pose estimation by instance parameterization. Computer Vision and Image Understanding, 2015, 136, 92-102.	3.0	25
46	Deep multi-task and task-specific feature learning network for robust shape preserved organ segmentation. , 2018, , .		23
47	Dynamic MRI reconstruction with end-to-end motion-guided network. Medical Image Analysis, 2021, 68, 101901.	7.0	23
48	CRF-driven Implicit Deformable Model. , 2007, , .		22
49	Using a marker-less method for estimating L5/S1 moments during symmetrical lifting. Applied Ergonomics, 2017, 65, 541-550.	1.7	22
50	Discriminative sparse representations for cervigram image segmentation. , 2010, , .		20
51	Surgical planning of pelvic tumor using multi-view CNN with relation-context representation learning. Medical Image Analysis, 2021, 69, 101954.	7.0	20
52	Multi-Level Shape Representation Using Global Deformations and Locally Adaptive Finite Elements. International Journal of Computer Vision, 1997, 25, 49-61.	10.9	19
53	Non-linear dynamical system approach to behavior modeling. Visual Computer, 1999, 15, 349-364.	2.5	19
54	Scalable mammogram retrieval using Anchor Graph Hashing. , 2014, , .		18

#	ARTICLE	IF	CITATIONS
55	Training of computational algorithms to predict NAFLD activity score and fibrosis stage from liver histopathology slides. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 207, 106153.	2.6	17
56	RED-Net: A Recurrent Encoder-Decoder Network for Video-Based Face Alignment. <i>International Journal of Computer Vision</i> , 2018, 126, 1103-1119.	10.9	15
57	In vitro machine learning-based CAR T immunological synapse quality measurements correlate with patient clinical outcomes. <i>PLoS Computational Biology</i> , 2022, 18, e1009883.	1.5	15
58	Sparse shape registration for occluded facial feature localization. , 2011, , .		14
59	Dynamic soft encoded patterns for facial event analysis. <i>Computer Vision and Image Understanding</i> , 2011, 115, 456-465.	3.0	14
60	Scalable Mammogram Retrieval Using Composite Anchor Graph Hashing With Iterative Quantization. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2017, 27, 2450-2460.	5.6	14
61	Pixel-wise neural cell instance segmentation. , 2018, , .		13
62	Facial Expression Recognition using Encoded Dynamic Features. , 2007, , .		12
63	Coupling CRFs and Deformable Models for 3D Medical Image Segmentation. , 2007, , .		12
64	Large Scale Learning of Active Shape Models. <i>Proceedings International Conference on Image Processing</i> , 2007, , .	0.0	12
65	Recognizing expressions from face and body gesture by temporal normalized motion and appearance features. , 2011, , .		12
66	Large Scale Medical Image Search via Unsupervised PCA Hashing. , 2013, , .		12
67	3D Motion Modeling and Reconstruction of Left Ventricle Wall in Cardiac MRI. <i>Lecture Notes in Computer Science</i> , 2017, 10263, 481-492.	1.0	12
68	Facial expression recognition using encoded dynamic features. , 2008, , .		11
69	Object-Guided Instance Segmentation With Auxiliary Feature Refinement for Biological Images. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 2403-2414.	5.4	11
70	Eye localization through multiscale sparse dictionaries. , 2011, , .		10
71	Meshless deformable models for 3D cardiac motion and strain analysis from tagged MRI. <i>Magnetic Resonance Imaging</i> , 2015, 33, 146-160.	1.0	10
72	Greedy auto-augmentation for n-shot learning using deep neural networks. <i>Neural Networks</i> , 2021, 135, 68-77.	3.3	10

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73	Accurate segmentation of brain images into 34 structures combining a non-stationary adaptive statistical atlas and a multi-atlas with applications to Alzheimer'S disease. , 2013, 2013, 1202-1205.		9
74	Accurate thigh inter-muscular adipose quantification using a data-driven and sparsity-constrained deformable model. , 2015, , .		9
75	Fast Neural Cell Detection Using Light-Weight SSD Neural Network. , 2017, , .		9
76	American Sign Language Video Anonymization to Support Online Participation of Deaf and Hard of Hearing Users. , 2021, , .		9
77	Quantifying the cell morphology and predicting biological behavior of signet ring cell carcinoma using deep learning. Scientific Reports, 2022, 12, 183.	1.6	9
78	Interaction of two-phase flow with animated models. Graphical Models, 2008, 70, 33-42.	1.1	8
79	Deep Attentive Feature Learning for Histopathology Image Classification. , 2019, , .		8
80	The Center for Human Modeling and Simulation. Presence: Teleoperators and Virtual Environments, 1995, 4, 81-96.	0.3	7
81	A collision resolution algorithm for clump-free fast moving cloth. Visual Computer, 2006, 22, 434-444.	2.5	7
82	Learning Ambiguities Using Bayesian Mixture of Experts. , 2006, , .		7
83	A combustion-based technique for fire animation and visualization. Visual Computer, 2007, 23, 679-687.	2.5	7
84	Context-Refined Neural Cell Instance Segmentation. , 2019, , .		7
85	Towards Image-to-Video Translation: A Structure-Aware Approach via Multi-stage Generative Adversarial Networks. International Journal of Computer Vision, 2020, 128, 2514-2533.	10.9	7
86	Taming the Noisy Gradient: Train Deep Neural Networks with Small Batch Sizes. , 2019, , .		7
87	Parallel Sparse Subspace Clustering via Joint Sample and Parameter Blockwise Partition. Transactions on Embedded Computing Systems, 2017, 16, 1-17.	2.1	6
88	Cartoonish sketch-based face editing in videos using identity deformation transfer. Computers and Graphics, 2019, 79, 58-68.	1.4	6
89	Atrioventricular Blood Flow Simulation Based on Patient-Specific Data. Lecture Notes in Computer Science, 2009, , 386-395.	1.0	6
90	Computer-aided diagnosis of mammographic masses using vocabulary tree-based image retrieval. , 2014, , .		5

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91	Tagged MRI Based Cardiac Motion Modeling and Toxicity Evaluation in Breast Cancer Radiotherapy. <i>Frontiers in Oncology</i> , 2015, 5, 9.	1.3	5
92	Toward Personalized Modeling: Incremental and Ensemble Alignment for Sequential Faces in the Wild. <i>International Journal of Computer Vision</i> , 2018, 126, 184-197.	10.9	5
93	Fully Automatic Segmentation Of Short-Axis Cardiac MRI Using Modified Deep Layer Aggregation. , 2019, , .		5
94	Similarity Features for Facial Event Analysis. <i>Lecture Notes in Computer Science</i> , 2008, , 685-696.	1.0	5
95	Track Facial Points in Unconstrained Videos. , 2016, , .		5
96	Synthesis and Control of High Resolution Facial Expressions for Visual Interactions. , 2006, , .		4
97	A Segmentation and Tracking System for 4D Cardiac Tagged MR Images. , 2006, 2006, 1541-4.		4
98	A Profile Hidden Markov Model Framework for Modeling and Analysis of Shape. , 2006, , .		4
99	Embedded Profile Hidden Markov Models for Shape Analysis. , 2007, , .		4
100	LV surface reconstruction from sparse tMRI using Laplacian Surface Deformation and Optimization. , 2009, , .		4
101	Patient-specific modeling and visualization of blood flow through the heart. , 2011, , .		4
102	Exploiting Visual and Report-Based Information for Chest X-RAY Analysis by Jointly Learning Visual Classifiers and Topic Models. , 2019, , .		4
103	Interactive Exploration for Continuously Expanding Neuron Databases. <i>Methods</i> , 2017, 115, 100-109.	1.9	3
104	Sparse Data-Driven Learning for Effective and Efficient Biomedical Image Segmentation. <i>Annual Review of Biomedical Engineering</i> , 2020, 22, 127-153.	5.7	3
105	GNM: GridCell navigational model. <i>Expert Systems With Applications</i> , 2020, 148, 113217.	4.4	3
106	GUEST EDITORIAL: MEDICAL IMAGING INFORMATICS – AN INFORMATION PROCESSING FROM IMAGE FORMATION TO VISUALIZATION. <i>International Journal of Image and Graphics</i> , 2007, 07, 1-15.	1.2	2
107	SHAPE ANALYSIS USING CURVATURE-BASED DESCRIPTORS AND PROFILE HIDDEN MARKOV MODELS. , 2007, , .		2
108	3D cardiac motion tracking using Robust Point Matching and meshless deformable models. , 2008, , .		2

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109	Computational Biomechanics for Medicine. , 2011, 2011, 143-155.		2
110	Robust shape prior modeling based on Gaussian-Bernoulli restricted Boltzmann Machine. , 2014, , .		2
111	Leveraging coupled multi-index for scalable retrieval of mammographic masses. , 2015, , .		2
112	]Video object segmentation by hypergraph cut. , 2009, , .		2
113	Medical image computing and computer-assisted intervention–MICCAI2008. Preface. , 2008, 11, V-VII.		2
114	Semantic Aware Data Augmentation for Cell Nuclei Microscopical Images with Artificial Neural Networks. , 2021, , .		2
115	Explicit occlusion detection based deformable fitting for facial landmark localization. , 2013, , .		1
116	Mouse LV 3D motion and strain analysis using tagged MRI. , 2013, , .		1
117	Efficient deformable model with sparse shape composition prior on compromised right lung segmentation in CT. , 2014, , .		1
118	Social Signals of Deception and Dishonesty. , 0, , 404-428.		1
119	Online Neural Cell Tracking Using Blob-Seed Segmentation and Optical Flow. , 2019, , .		1
120	FUNDAMENTALS IN KERNEL DISCRIMINANT ANALYSIS AND FEATURE SELECTION FOR FACE RECOGNITION. , 2011, , 129-148.		1
121	Brain region morphological and volumetric quantitative assessment using the 17.6T MRI in rats chronically exposed to methylphenidate. , 2007, , .		0
122	Lennard-Jones force field for Geometric Active Contour. , 2008, , .		0
123	Editorial. Medical Image Analysis, 2009, 13, 771-772.	7.0	0
124	A Belief Propagation algorithm for bias field estimation and image segmentation. , 2011, , .		0
125	Efficient sparse shape composition with its applications in biomedical image analysis: An overview. , 2012, , .		0
126	Left endocardium segmentation using spatio-temporal Metamorphs. , 2012, , .		0



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127	Towards Automatic Stereoscopic Video Synthesis from a Casual Monocular Video. , 2012, , .		0
128	Auto-encoding of discriminating morphometry from cardiac MRI. , 2014, 2014, 217-221.		0
129	Preface. Medical Image Analysis, 2014, 18, 819.	7.0	0
130	Ventricular blood flow analysis using topological methods. , 2015, , .		0
131	Multi-Pose and Occluded Facial Landmark Localization Via Sparse Shape Representation. International Journal on Artificial Intelligence Tools, 2015, 24, 1540019.	0.7	0
132	Automated Pulmonary Fibrosis Segmentation Using a 3D Multi-Scale Convolutional Encoder-Decoder Approach in Thoracic CT for the Rhesus Macaque with Radiation-Induced Lung Damage. Journal of Signal Processing Systems, 2020, , 1.	1.4	0
133	USING ASPECT GRAPHS TO CONTROL THE RECOVERY AND TRACKING OF DEFORMABLE MODELS. Series in Machine Perception and Artificial Intelligence, 1997, , 115-141.	0.1	0
134	Mode Estimation for High Dimensional Discrete Tree Graphical Models. Advances in Neural Information Processing Systems, 2014, 27, 5533.	2.8	0