Dimitris Metaxas

List of Publications by Year
in descending order

134	6,002	236612	182168
papers	citations	25 h-index	51 g-index

135	135	135	4571
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Quantifying the cell morphology and predicting biological behavior of signet ring cell carcinoma using deep learning. Scientific Reports, 2022, 12, 183.	1.6	9
3	In vitro machine learning-based CAR T immunological synapse quality measurements correlate with patient clinical outcomes. PLoS Computational Biology, 2022, 18, e1009883.	1.5	15
4	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
5	Greedy auto-augmentation for n-shot learning using deep neural networks. Neural Networks, 2021, 135, 68-77.	3.3	10
6	Dynamic MRI reconstruction with end-to-end motion-guided network. Medical Image Analysis, 2021, 68, 101901.	7.0	23
7	UTNet: A Hybrid Transformer Architecture for Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 61-71.	1.0	156
8	Surgical planning of pelvic tumor using multi-view CNN with relation-context representation learning. Medical Image Analysis, 2021, 69, 101954.	7.0	20
9	Training of computational algorithms to predict NAFLD activity score and fibrosis stage from liver histopathology slides. Computer Methods and Programs in Biomedicine, 2021, 207, 106153.	2.6	17
10	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
11	Object-Guided Instance Segmentation With Auxiliary Feature Refinement for Biological Images. IEEE Transactions on Medical Imaging, 2021, 40, 2403-2414.	5.4	11
12	American Sign Language Video Anonymization to Support Online Participation of Deaf and Hard of Hearing Users. , 2021, , .		9
13	Semantic Aware Data Augmentation for Cell Nuclei Microscopical Images with Artificial Neural Networks. , 2021, , .		2
14	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
15	Vertebra-Focused Landmark Detection for Scoliosis Assessment. , 2020, , .		34
16	Sparse Dataâ€“Driven Learning for Effective and Efficient Biomedical Image Segmentation. Annual Review of Biomedical Engineering, 2020, 22, 127-153.	5.7	3
17	GNM: GridCell navigational model. Expert Systems With Applications, 2020, 148, 113217.	4.4	3
18	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

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19	Joint Segmentation and Fine-Grained Classification of Nuclei in Histopathology Images. , 2019, , .		26
20	MRI Reconstruction Via Cascaded Channel-Wise Attention Network. , 2019, , .		42
21	Fully Automatic Segmentation Of Short-Axis Cardiac MRI Using Modified Deep Layer Aggregation. , 2019, , .		5
22	Exploiting Visual and Report-Based Information for Chest X-RAY Analysis by Jointly Learning Visual Classifiers and Topic Models. , 2019, , .		4
23	Context-Refined Neural Cell Instance Segmentation. , 2019, , .		7
24	Deep Attentive Feature Learning for Histopathology Image Classification. , 2019, , .		8
25	Cartoonish sketch-based face editing in videos using identity deformation transfer. Computers and Graphics, 2019, 79, 58-68.	1.4	6
26	Attentive neural cell instance segmentation. Medical Image Analysis, 2019, 55, 228-240.	7.0	64
27	Online Neural Cell Tracking Using Blob-Seed Segmentation and Optical Flow. , 2019, , .		1
28	Semantic Graph Convolutional Networks for 3D Human Pose Regression. , 2019, , .		303
29	Multi-scale Cell Instance Segmentation with Keypoint Graph Based Bounding Boxes. Lecture Notes in Computer Science, 2019, , 369-377.	1.0	35
30	Taming the Noisy Gradient: Train Deep Neural Networks with Small Batch Sizes. , 2019, , .		7
31	A computer vision based method for 3D posture estimation of symmetrical lifting. Journal of Biomechanics, 2018, 69, 40-46.	0.9	45
32	Toward Personalized Modeling: Incremental and Ensemble Alignment for Sequential Faces in the Wild. International Journal of Computer Vision, 2018, 126, 184-197.	10.9	5
33	Jointly Optimize Data Augmentation and Network Training: Adversarial Data Augmentation in Human Pose Estimation. , 2018, , .		133
34	Deep multi-task and task-specific feature learning network for robust shape preserved organ segmentation. , 2018, , .		23
35	RED-Net: A Recurrent Encoderâ€“Decoder Network for Video-Based Face Alignment. International Journal of Computer Vision, 2018, 126, 1103-1119.	10.9	15
36	Pixel-wise neural cell instance segmentation. , 2018, , .		13

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37	Quantized Densely Connected U-Nets for Efficient Landmark Localization. Lecture Notes in Computer Science, 2018, , 348-364.	1.0	83
38	Learning to Forecast and Refine Residual Motion for Image-to-Video Generation. Lecture Notes in Computer Science, 2018, , 403-419.	1.0	44
39	CR-GAN: Learning Complete Representations for Multi-view Generation. , 2018, , .		78
40	Using a marker-less method for estimating L5/S1 moments during symmetrical lifting. Applied Ergonomics, 2017, 65, 541-550.	1.7	22
41	Interactive Exploration for Continuously Expanding Neuron Databases. Methods, 2017, 115, 100-109.	1.9	3
42	Parallel Sparse Subspace Clustering via Joint Sample and Parameter Blockwise Partition. Transactions on Embedded Computing Systems, 2017, 16, 1-17.	2.1	6
43	Fast Neural Cell Detection Using Light-Weight SSD Neural Network. , 2017, , .		9
44	Scalable Mammogram Retrieval Using Composite Anchor Graph Hashing With Iterative Quantization. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 2450-2460.	5.6	14
45	StackGAN: Text to Photo-Realistic Image Synthesis with Stacked Generative Adversarial Networks. , 2017, , .		1,445
46	Reconstruction-Based Disentanglement for Pose-Invariant Face Recognition. , 2017, , .		105
47	3D Motion Modeling and Reconstruction of Left Ventricle Wall in Cardiac MRI. Lecture Notes in Computer Science, 2017, 10263, 481-492.	1.0	12
48	Scalable histopathological image analysis via supervised hashing with multiple features. Medical Image Analysis, 2016, 34, 3-12.	7.0	32
49	Large-Scale medical image analytics: Recent methodologies, applications and Future directions. Medical Image Analysis, 2016, 33, 98-101.	7.0	50
50	An efficient conditional random field approach for automatic and interactive neuron segmentation. Medical Image Analysis, 2016, 27, 31-44.	7.0	29
51	A Recurrent Encoder-Decoder Network for Sequential Face Alignment. Lecture Notes in Computer Science, 2016, , 38-56.	1.0	81
52	Track Facial Points in Unconstrained Videos. , 2016, , .		5
53	From circle to 3-sphere: Head pose estimation by instance parameterization. Computer Vision and Image Understanding, 2015, 136, 92-102.	3.0	25
54	Investigating the Discriminative Power of Keystroke Sound. IEEE Transactions on Information Forensics and Security, 2015, 10, 333-345.	4.5	36

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55	Accurate thigh inter-muscular adipose quantification using a data-driven and sparsity-constrained deformable model. , 2015, , .		9
56	PIEFA: Personalized Incremental and Ensemble Face Alignment. , 2015, , .		30
57	Ventricular blood flow analysis using topological methods. , 2015, , .		0
58	Tagged MRI Based Cardiac Motion Modeling and Toxicity Evaluation in Breast Cancer Radiotherapy. Frontiers in Oncology, 2015, 5, 9.	1.3	5
59	Multi-Pose and Occluded Facial Landmark Localization Via Sparse Shape Representation. International Journal on Artificial Intelligence Tools, 2015, 24, 1540019.	0.7	0
60	Leveraging coupled multi-index for scalable retrieval of mammographic masses. , 2015, , .		2
61	Meshless deformable models for 3D cardiac motion and strain analysis from tagged MRI. Magnetic Resonance Imaging, 2015, 33, 146-160.	1.0	10
62	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
63	Computer-aided diagnosis of mammographic masses using vocabulary tree-based image retrieval. , 2014, , .		5
64	Scalable mammogram retrieval using Anchor Graph Hashing. , 2014, , .		18
65	Efficient deformable model with sparse shape composition prior on compromised right lung segmentation in CT. , 2014, , .		1
66	Deformable models with sparsity constraints for cardiac motion analysis. Medical Image Analysis, 2014, 18, 927-937.	7.0	34
67	Robust shape prior modeling based on Gaussian-Bernoulli restricted Boltzmann Machine. , 2014, , .		2
68	Auto-encoding of discriminating morphometry from cardiac MRI. , 2014, 2014, 217-221.		0
69	Preface. Medical Image Analysis, 2014, 18, 819.	7.0	0
70	Mode Estimation for High Dimensional Discrete Tree Graphical Models. Advances in Neural Information Processing Systems, 2014, 27, 5533.	2.8	0
71	A review of motion analysis methods for human Nonverbal Communication Computing. Image and Vision Computing, 2013, 31, 421-433.	2.7	41
72	Large Scale Medical Image Search via Unsupervised PCA Hashing. , 2013, , .		12

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73	Explicit occlusion detection based deformable fitting for facial landmark localization. , 2013, , .		1
74	Mouse LV 3D motion and strain analysis using tagged MRI. , 2013, , .		1
75	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
76	Efficient sparse shape composition with its applications in biomedical image analysis: An overview. , 2012, , .		0
77	Learning active facial patches for expression analysis. , 2012, , .		106
78	Left endocardium segmentation using spatio-temporal Metamorphs. , 2012, , .		0
79	Towards Automatic Stereoscopic Video Synthesis from a Casual Monocular Video. , 2012, , .		0
80	Deformable segmentation via sparse representation and dictionary learning. Medical Image Analysis, 2012, 16, 1385-1396.	7.0	140
81	Recognizing expressions from face and body gesture by temporal normalized motion and appearance features. , 2011, , .		12
82	Sparse shape registration for occluded facial feature localization. , 2011, , .		14
83	Abnormal detection using interaction energy potentials. , 2011, , .		162
84	A Belief Propagation algorithm for bias field estimation and image segmentation. , 2011, , .		0
85	Computational Biomechanics for Medicine. , 2011, 2011, 143-155.		2
86	Eye localization through multiscale sparse dictionaries. , 2011, , .		10
87	Dynamic soft encoded patterns for facial event analysis. Computer Vision and Image Understanding, 2011, 115, 456-465.	3.0	14
88	Patient-specific modeling and visualization of blood flow through the heart. , 2011, , .		4
89	FUNDAMENTALS IN KERNEL DISCRIMINANT ANALYSIS AND FEATURE SELECTION FOR FACE RECOGNITION. , 2011, , 129-148.		1
90	Discriminative sparse representations for cervigram image segmentation. , 2010, , .		20

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91	Exploring facial expressions with compositional features. , 2010, , .		55
92	Automatic image annotation using group sparsity. , 2010, , .		132
93	LV surface reconstruction from sparse tMRI using Laplacian Surface Deformation and Optimization. , 2009, , .		4
94	Simulation of twoâ€phase flow with subâ€scale droplet and bubble effects. Computer Graphics Forum, 2009, 28, 229-238.	1.8	45
95	Editorial. Medical Image Analysis, 2009, 13, 771-772.	7.0	0
96	RankBoost with l1 regularization for facial expression recognition and intensity estimation. , 2009, , .		34
97	]Video object segmentation by hypergraph cut. , 2009, , .		105
98	Atrioventricular Blood Flow Simulation Based on Patient-Specific Data. Lecture Notes in Computer Science, 2009, , 386-395.	1.0	6
99	]Video object segmentation by hypergraph cut. , 2009, , .		2
100	Interaction of two-phase flow with animated models. Graphical Models, 2008, 70, 33-42.	1.1	8
101	Metamorphs: Deformable Shape and Appearance Models. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1444-1459.	9.7	60
102	Lennard-Jones force field for Geometric Active Contour. , 2008, , .		0
103	Facial expression recognition using encoded dynamic features. , 2008, , .		11
104	3D cardiac motion tracking using Robust Point Matching and meshless deformable models. , 2008, , .		2
105	Similarity Features for Facial Event Analysis. Lecture Notes in Computer Science, 2008, , 685-696.	1.0	5
106	Medical image computing and computer-assisted intervention--MICCAI2008. Preface. , 2008, 11, V-VII.		2
107	GUEST EDITORIAL: MEDICAL IMAGING INFORMATICS â€" AN INFORMATION PROCESSING FROM IMAGE FORMATION TO VISUALIZATION. International Journal of Image and Graphics, 2007, 07, 1-15.	1.2	2
108	Boosting Coded Dynamic Features for Facial Action Units and Facial Expression Recognition. , 2007, , .		87

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109	The Best of Both Worlds: Combining 3D Deformable Models with Active Shape Models. , 2007, , .		26
110	Embedded Profile Hidden Markov Models for Shape Analysis. , 2007, , .		4
111	Facial Expression Recognition using Encoded Dynamic Features. , 2007, , .		12
112	CRF-driven Implicit Deformable Model. , 2007, , .		22
113	Coupling CRFs and Deformable Models for 3D Medical Image Segmentation. , 2007, , .		12
114	A Component Based Deformable Model for Generalized Face Alignment. , 2007, , .		25
115	SHAPE ANALYSIS USING CURVATURE-BASED DESCRIPTORS AND PROFILE HIDDEN MARKOV MODELS. , 2007, , .		2
116	Large Scale Learning of Active Shape Models. Proceedings International Conference on Image Processing, 2007, , .	0.0	12
117	CELL SEGMENTATION AND TRACKING USING TEXTURE-ADAPTIVE SNAKES. , 2007, , .		36
118	Brain region morphological and volumetric quantitative assessment using the 17.6T MRI in rats chronically exposed to methylphenidate. , 2007, , .		0
119	A combustion-based technique for fire animation and visualization. Visual Computer, 2007, 23, 679-687.	2.5	7
120	Synthesis and Control of High Resolution Facial Expressions for Visual Interactions. , 2006, , .		4
121	Conditional models for contextual human motion recognition. Computer Vision and Image Understanding, 2006, 104, 210-220.	3.0	157
122	A collision resolution algorithm for clump-free fast moving cloth. Visual Computer, 2006, 22, 434-444.	2.5	7
123	A Segmentation and Tracking System for 4D Cardiac Tagged MR Images. , 2006, 2006, 1541-4.		4
124	Learning Ambiguities Using Bayesian Mixture of Experts. , 2006, , .		7
125	A Profile Hidden Markov Model Framework for Modeling and Analysis of Shape. , 2006, , .		4
126	High Resolution Acquisition, Learning and Transfer of Dynamic 3-D Facial Expressions. Computer Graphics Forum, 2004, 23, 677-686.	1.8	106

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127	A Framework for Recognizing the Simultaneous Aspects of American Sign Language. Computer Vision and Image Understanding, 2001, 81, 358-384.	3.0	234
128	Optical Flow Constraints on Deformable Models with Applications to Face Tracking. International Journal of Computer Vision, 2000, 38, 99-127.	10.9	249
129	Non-linear dynamical system approach to behavior modeling. Visual Computer, 1999, 15, 349-364.	2.5	19
130	Multi-Level Shape Representation Using Global Deformations and Locally Adaptive Finite Elements. International Journal of Computer Vision, 1997, 25, 49-61.	10.9	19
131	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
132	Realistic Animation of Liquids. Graphical Models, 1996, 58, 471-483.	1.4	497
133	The Center for Human Modeling and Simulation. Presence: Teleoperators and Virtual Environments, 1995, 4, 81-96.	0.3	7
134	Social Signals of Deception and Dishonesty. , 0, , 404-428.		1