Shireen Y Elhabian

List of Publications by Year
in descending order

69	466	840776 11	940533 16
papers	citations	h-index	g-index

70	70	70	478
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Benchmarking off-the-shelf statistical shape modeling tools in clinical applications. Medical Image Analysis, 2022, 76, 102271.	11.6	17
2	All Roads Lead to Rome: Diverse Etiologies of Tricuspid Regurgitation Create a Predictable Constellation of Right Ventricular Shape Changes. Frontiers in Physiology, 2022, 13, .	2.8	2
3	Leveraging unsupervised image registration for discovery of landmark shape descriptor. Medical Image Analysis, 2021, 73, 102157.	11.6	2
4	Prediction of Femoral Head Coverage from Articulated Statistical Shape Models of Patients with Developmental Dysplasia of the Hip. Journal of Orthopaedic Research, 2021, , .	2.3	3
5	An Optimal, Generative Model for Estimating Multi-Label Probabilistic Maps. IEEE Transactions on Medical Imaging, 2020, 39, 2316-2326.	8.9	2
6	Thinking outside the glenohumeral box: Hierarchical shape variation of the periarticular anatomy of the scapula using statistical shape modeling. Journal of Orthopaedic Research, 2020, 38, 2272-2279.	2.3	7
7	Combined Estimation of Shape and Pose for Statistical Analysis of Articulating Joints. Lecture Notes in Computer Science, 2020, 12474, 111-121.	1.3	3
8	Right Ventricular Shape Distortion in Tricuspid Regurgitation. , 2020, 47, .		1
9	Uncertain-DeepSSM: From Images toÂProbabilistic Shape Models. Lecture Notes in Computer Science, 2020, 12474, 57-72.	1.3	12
10	Medial axis segmentation of cranial nerves using shape statistics-aware discrete deformable models. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1955-1967.	2.8	4
11	Coracoacromial morphology: a contributor to recurrent traumatic anterior glenohumeral instability?. Journal of Shoulder and Elbow Surgery, 2019, 28, 1316-1325.e1.	2.6	13
12	Mixture Modeling of Global Shape Priors and Autoencoding Local Intensity Priors for Left Atrium Segmentation. Lecture Notes in Computer Science, 2019, , 357-367.	1.3	1
13	Which Two-dimensional Radiographic Measurements of Cam Femoroacetabular Impingement Best Describe the Three-dimensional Shape of the Proximal Femur?. Clinical Orthopaedics and Related Research, 2019, 477, 242-253.	1.5	37
14	A Cooperative Autoencoder for Population-Based Regularization of CNN Image Registration. Lecture Notes in Computer Science, 2019, 11765, 391-400.	1.3	10
15	Skeletal Shape Correspondence Through Entropy. IEEE Transactions on Medical Imaging, 2018, 37, 1-11.	8.9	28
16	On the Evaluation and Validation of Off-the-Shelf Statistical Shape Modeling Tools: A Clinical Application. Lecture Notes in Computer Science, 2018, 11167, 14-27.	1.3	13
17	DeepSSM: A Deep Learning Framework for Statistical Shape Modeling from Raw Images. Lecture Notes in Computer Science, 2018, 11167, 244-257.	1.3	35
18	ShapeCut: Bayesian surface estimation using shape-driven graph. Medical Image Analysis, 2017, 40, 11-29.	11.6	11

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19	Quantitative comparison of cortical bone thickness using correspondence-based shape modeling in patients with cam femoroacetabular impingement. Journal of Orthopaedic Research, 2017, 35, 1743-1753.	2.3	26
20	ShapeOdds: Variational Bayesian Learning of Generative Shape Models. , 2017, , .		2
21	ShapeWorks. , 2017, , 257-298.		50
22	Learning Deep Features for Automated Placement of Correspondence Points on Ensembles of Complex Shapes. Lecture Notes in Computer Science, 2017, , 185-193.	1.3	2
23	From Label Maps to Generative Shape Models: A Variational Bayesian Learning Approach. Lecture Notes in Computer Science, 2017, , 93-105.	1.3	0
24	Optimal parameter map estimation for shape representation: A generative approach. , 2016, 2016, 660-663.		1
25	Entropy-based correspondence improvement of interpolated skeletal models. Computer Vision and Image Understanding, 2016, 151, 72-79.	4.7	4
26	Compressive sensing based Q-space resampling for handling fast bulk motion in hardi acquisitions. , 2016, 2016, 907-910.		4
27	Towards a Statistical Shape-Aware Deformable Contour Model for Cranial Nerve Identification. Lecture Notes in Computer Science, 2016, , 68-76.	1.3	2
28	A Bayesian formulation of graph-cut surface estimation with global shape priors. , 2015, , .		1
29	Helmholtz HSH-Based Basis: A Compact Phenomenological Representation of Arbitrary Reflectance. Informatica, 2015, 26, 593-620.	2.7	0
30	Statistical morphable model for human teeth restoration. , 2014, , .		4
31	Appearanceâ€based approach for complete human jaw shape reconstruction. IET Computer Vision, 2014, 8, 404-418.	2.0	2
32	Image irradiance harmonics: a phenomenological model of image irradiance of arbitrary surface reflectance. IET Computer Vision, 2014, 8, 365-381.	2.0	1
33	SubjectÃ¢â‚¬â€œMotion Correction in HARDI Acquisitions: Choices and Consequences. Frontiers in Neurology, 2014, 5, 240.	2.4	12
34	Shapeâ€fromâ€shading using sensor and physical object characteristics applied to human teeth surface reconstruction. IET Computer Vision, 2014, 8, 1-15.	2.0	2
35	Clinical crowns shape reconstruction - An image-based approach. , 2013, , .		1
36	Towards efficient image irradiance modelling of convex Lambertian surfaces under single viewpoint and frontal illumination. IET Computer Vision, 2013, 7, 478-487.	2.0	1

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37	A 3D reconstruction of the human jaw from a single image. , 2013, , .		6
38	Analytic Bilinear Appearance Subspace Construction for Modeling Image Irradiance under Natural Illumination and Non-Lambertian Reflectance. , 2013, , .		2
39	Model-Based Human Teeth Shape Recovery from a Single Optical Image with Unknown Illumination. Lecture Notes in Computer Science, 2013, , 263-272.	1.3	6
40	Occlusal surface reconstruction of human teeth from a single image based on object and sensor physical characteristics. , 2012, , .		1
41	Modeling image irradiance under natural illumination and isotropic surface reflectance. , 2012, , .		0
42	3D automated colon segmentation for efficient polyp detection. , 2012, , .		4
43	Non-Lambertian Model-based Facial Shape Recovery from Single Image Under Unknown General Illumination. , 2012, , .		3
44	Fully automated 3D colon segmentation for early detection of colorectal cancer based on convex formulation of the active contour model. , 2012, , .		6
45	A passive stereo system for 3D human face reconstruction and recognition at a distance. , 2012, , .		5
46	Modeling Lambertian Surfaces Under Unknown Distant Illumination Using Hemispherical Harmonics. , 2011, , .		3
47	Probability density estimation by linear combinations of Gaussian kernels- generalizations and algorithmic evaluation. , 2011, , .		1
48	On the use of hemispherical harmonics for modeling images of objects under unknown distant illumination. , 2011, , .		1
49	Illumination-invariant Statistical Shape Recovery with Contiguous Occlusion. , 2011, , .		1
50	Towards accurate and efficient representation of image irradiance of convex-Lambertian objects under unknown near lighting. , 2011, , .		7
51	Face recognition at-a-distance using texture, Sparse-Stereo, and Dense-Stereo. , 2011, , .		0
52	Solving Geometric Co-registration Problem of Multi-spectral Remote Sensing Imagery Using SIFT-Based Features toward Precise Change Detection. Lecture Notes in Computer Science, 2011, , 607-616.	1.3	1
53	Towards Efficient and Compact Phenomenological Representation of Arbitrary Bidirectional Surface Reflectance. , 2011, , .		8
54	Face Recognition at-a-Distance Using Texture, Dense- and Sparse-Stereo Reconstruction. , 2010, , .		5

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55	3D face recovery from intensities of general and unknown lighting using Partial Least Squares. , 2010, , .		10
56	Shape modeling of the corpus callosum. , 2010, 2010, 4288-91.		4
57	Modeling of the lung nodules for detection in LDCT scans. , 2010, 2010, 3618-21.		2
58	Face recognition at-a-distance using texture and sparse-stereo reconstruction. , 2010, , .		3
59	Toward Precise Pulmonary Nodule Descriptors for Nodule Type Classification. Lecture Notes in Computer Science, 2010, 13, 626-633.	1.3	22
60	Feature-Based Lung Nodule Classification. Lecture Notes in Computer Science, 2010, , 79-88.	1.3	6
61	Surface Modeling of the Corpus Callosum from MRI Scans. Lecture Notes in Computer Science, 2010, , 9-18.	1.3	0
62	Face recognition at-a-distance based on sparse-stereo reconstruction. , 2009, , .		10
63	Model-based shape recovery from single images of general and unknown lighting. , 2009, , .		12
64	Distant face recognition based on sparse-stereo reconstruction. , 2009, , .		5
65	A Framework for Long Distance Face Recognition Using Dense - and Sparse-Stereo Reconstruction. Lecture Notes in Computer Science, 2009, , 774-783.	1.3	6
66	Noise Analysis of a SFS Algorithm Formulated under Various Imaging Conditions. Lecture Notes in Computer Science, 2008, , 793-802.	1.3	0
67	Experiments on Sensitivity of Template Matching for Lung Nodule Detection in Low Dose CT Scans. , 2007, , .		3
68	Deep Learning for End-to-End Atrial Fibrillation Recurrence Estimation. , 0, , .		7
69	Interactive Exploration of Left Atrium Population-Level Morphology in Atrial Fibrillation Patients. , 0, , .		0