

Niloy J Mitra

List of Publications by Year in descending order

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73
papers

6,765
citations

109321

35
h-index

98798

67
g-index

74
all docs

74
docs citations

74
times ranked

4347
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Contrast Based Salient Region Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 569-582.	13.9	2,008
2	Partial and approximate symmetry detection for 3D geometry. ACM Transactions on Graphics, 2006, 25, 560-568.	7.2	399
3	Creating works-like prototypes of mechanical objects. ACM Transactions on Graphics, 2014, 33, 1-9.	7.2	276
4	SalientShape: group saliency in image collections. Visual Computer, 2014, 30, 443-453.	3.5	234
5	Discovering structural regularity in 3D geometry. ACM Transactions on Graphics, 2008, 27, 1-11.	7.2	219
6	ESTIMATING SURFACE NORMALS IN NOISY POINT CLOUD DATA. International Journal of Computational Geometry and Applications, 2004, 14, 261-276.	0.5	198
7	Symmetry in 3D Geometry: Extraction and Applications. Computer Graphics Forum, 2013, 32, 1-23.	3.0	186
8	PCPN Learning Local Shape Properties from Raw Point Clouds. Computer Graphics Forum, 2018, 37, 75-85.	3.0	180
9	Registration of point cloud data from a geometric optimization perspective. Eurographics Symposium on Geometry Processing, 2004, , .	0.0	176
10	iWIRES. ACM Transactions on Graphics, 2009, 28, 1-10.	7.2	165
11	GlobFit. ACM Transactions on Graphics, 2011, 30, 1-12.	7.2	155
12	Guided exploration of physically valid shapes for furniture design. ACM Transactions on Graphics, 2012, 31, 1-11.	7.2	139
13	PointCleanNet: Learning to Denoise and Remove Outliers from Dense Point Clouds. Computer Graphics Forum, 2020, 39, 185-203.	3.0	139
14	Learning part-based templates from large collections of 3D shapes. ACM Transactions on Graphics, 2013, 32, 1-12.	7.2	137
15	Curved folding. ACM Transactions on Graphics, 2008, 27, 1-9.	7.2	131
16	Acquiring 3D indoor environments with variability and repetition. ACM Transactions on Graphics, 2012, 31, 1-11.	7.2	128
17	RepFinder. ACM Transactions on Graphics, 2010, 29, 1-8.	7.2	123
18	Exploring collections of 3D models using fuzzy correspondences. ACM Transactions on Graphics, 2012, 31, 1-11.	7.2	107

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19	Exploration of continuous variability in collections of 3D shapes. ACM Transactions on Graphics, 2011, 30, 1-10.	7.2	88
20	Non-local scan consolidation for 3D urban scenes. ACM Transactions on Graphics, 2010, 29, 1-9.	7.2	82
21	<i>Smart Variations</i>: Functional Substructures for Part Compatibility. Computer Graphics Forum, 2013, 32, 195-204.	3.0	80
22	Symmetrization. ACM Transactions on Graphics, 2007, 26, 63.	7.2	79
23	<i>Interactive images</i>. ACM Transactions on Graphics, 2012, 31, 1-11.	7.2	79
24	Shadow art. ACM Transactions on Graphics, 2009, 28, 1-7.	7.2	77
25	Designing and fabricating mechanical automata from mocap sequences. ACM Transactions on Graphics, 2013, 32, 1-11.	7.2	76
26	Generating and exploring good building layouts. ACM Transactions on Graphics, 2013, 32, 1-10.	7.2	72
27	Camouflage images. ACM Transactions on Graphics, 2010, 29, 1-8.	7.2	63
28	Shape space exploration of constrained meshes. ACM Transactions on Graphics, 2011, 30, 1-12.	7.2	60
29	Points2Surf Learning Implicit Surfaces from Point Clouds. Lecture Notes in Computer Science, 2020, , 108-124.	1.3	56
30	ShapeSynth: Parameterizing model collections for coupled shape exploration and synthesis. Computer Graphics Forum, 2014, 33, 125-134.	3.0	55
31	Visibility of noisy point cloud data. Computers and Graphics, 2010, 34, 219-230.	2.5	53
32	Reciprocal frame structures made easy. ACM Transactions on Graphics, 2013, 32, 1-13.	7.2	52
33	2D-3D fusion for layer decomposition of urban facades. , 2011, , .		50
34	Sketch&to&Design: Context&Based Part Assembly. Computer Graphics Forum, 2013, 32, 233-245.	3.0	47
35	Coupled structure-from-motion and 3D symmetry detection for urban facades. ACM Transactions on Graphics, 2014, 33, 1-15.	7.2	46
36	Imagining the unseen. ACM Transactions on Graphics, 2014, 33, 1-11.	7.2	44

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37	Structure-aware shape processing. , 2014, , .		42
38	Constraint-aware interior layout exploration for pre-cast concrete-based buildings. Visual Computer, 2013, 29, 663-673.	3.5	30
39	Guided Real-time Scanning of Indoor Objects. Computer Graphics Forum, 2013, 32, 177-186.	3.0	28
40	Computational network design from functional specifications. ACM Transactions on Graphics, 2016, 35, 1-12.	7.2	27
41	Factored Facade Acquisition using Symmetric Line Arrangements. Computer Graphics Forum, 2012, 31, 671-680.	3.0	26
42	Interactive Facades Analysis and Synthesis of Semi-regular Facades. Computer Graphics Forum, 2013, 32, 215-224.	3.0	25
43	Shape Analysis with Subspace Symmetries. Computer Graphics Forum, 2011, 30, 277-286.	3.0	23
44	Intrinsic Regularity Detection in 3D Geometry. Lecture Notes in Computer Science, 2010, , 398-410.	1.3	22
45	Replaceable Substructures for Efficient Part-based Modeling. Computer Graphics Forum, 2015, 34, 503-513.	3.0	20
46	SmartAnnotator An Interactive Tool for Annotating Indoor RGBD Images. Computer Graphics Forum, 2015, 34, 447-457.	3.0	18
47	Decomposing Single Images for Layered Photo Retouching. Computer Graphics Forum, 2017, 36, 15-25.	3.0	18
48	Repetition Maximization based Texture Rectification. Computer Graphics Forum, 2012, 31, 439-448.	3.0	16
49	Joint Material and Illumination Estimation from Photo Sets in the Wild. , 2018, , .		16
50	SmartCanvas: Context-inferred Interpretation of Sketches for Preparatory Design Studies. Computer Graphics Forum, 2016, 35, 37-48.	3.0	15
51	CrossLink. ACM Transactions on Graphics, 2015, 34, 1-13.	7.2	15
52	3D Timeline: Reverse engineering of a part-based provenance from consecutive 3D models. Computer Graphics Forum, 2014, 33, 135-144.	3.0	14
53	Dynamic SfM: Detecting Scene Changes from Image Pairs. Computer Graphics Forum, 2015, 34, 177-189.	3.0	14
54	Guided exploration of physically valid shapes for furniture design. Communications of the ACM, 2015, 58, 116-124.	4.5	14

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55	Object Proposals Estimation in Depth Image Using Compact 3D Shape Manifolds. Lecture Notes in Computer Science, 2015, , 196-208.	1.3	14
56	Open3D. , 2016, , .		13
57	PATEX. ACM Transactions on Graphics, 2016, 35, 1-13.	7.2	11
58	What Makes London Work Like London?. Computer Graphics Forum, 2014, 33, 157-165.	3.0	10
59	SMASH. ACM Transactions on Graphics, 2016, 35, 1-14.	7.2	10
60	Computational Design and Optimization of Non-Circular Gears. Computer Graphics Forum, 2020, 39, 399-409.	3.0	10
61	Near-Regular Structure Discovery Using Linear Programming. ACM Transactions on Graphics, 2014, 33, 1-17.	7.2	8
62	Autocorrelation Descriptor for Efficient Co-Alignment of 3D Shape Collections. Computer Graphics Forum, 2016, 35, 261-271.	3.0	7
63	Exploratory design of mechanical devices with motion constraints. Computers and Graphics, 2018, 74, 244-256.	2.5	7
64	DepthCut: improved depth edge estimation using multiple unreliable channels. Visual Computer, 2018, 34, 1165-1176.	3.5	6
65	An Interactive Computational Design Tool for Large Reciprocal Frame Structures. Nexus Network Journal, 2014, 16, 109-118.	0.7	5
66	Taking visual motion prediction to new heightfields. Computer Vision and Image Understanding, 2019, 181, 14-25.	4.7	5
67	Reforming Shapes for Material-Aware Fabrication. Computer Graphics Forum, 2015, 34, 53-64.	3.0	4
68	An Image Degradation Model for Depth-Augmented Image Editing. Computer Graphics Forum, 2015, 34, 191-199.	3.0	4
69	Interactive Videos: Plausible Video Editing using Sparse Structure Points. Computer Graphics Forum, 2016, 35, 489-500.	3.0	4
70	Discovering Structured Variations Via Template Matching. Computer Graphics Forum, 2017, 36, 76-88.	3.0	2
71	SPIROU. , 2017, , .		2
72	Congestion-Aware Warehouse Flow Analysis and Optimization. Lecture Notes in Computer Science, 2015, , 702-711.	1.3	1

#	ARTICLE	IF	CITATIONS
73	Conference Report for the Advances in Architectural Geometry (AAC) 2014. Nexus Network Journal, 2015, 17, 345-347.	0.7	0