Nico Pietroni

List of Publications by Year
in descending order

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49	1,658	331670 21	302126 39
papers	citations	h-index	g-index

51	51	51	1003
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quadâ€Mesh Generation and Processing: A Survey. Computer Graphics Forum, 2013, 32, 51-76.	3.0	229
2	Elastic textures for additive fabrication. ACM Transactions on Graphics, 2015, 34, 1-12.	7.2	199
3	Robust field-aligned global parametrization. ACM Transactions on Graphics, 2014, 33, 1-14.	7.2	108
4	Almost Isometric Mesh Parameterization through Abstract Domains. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 621-635.	4.4	91
5	Digital Fabrication Techniques for Cultural Heritage: A Survey. Computer Graphics Forum, 2017, 36, 6-21.	3.0	91
6	Practical quad mesh simplification. Computer Graphics Forum, 2010, 29, 407-418.	3.0	87
7	Simple quad domains for field aligned mesh parametrization. ACM Transactions on Graphics, 2011, 30, 1-12.	7.2	68
8	Field-aligned mesh joinery. ACM Transactions on Graphics, 2014, 33, 1-12.	7.2	65
9	Feature-aligned T-meshes. ACM Transactions on Graphics, 2010, 29, 1-11.	7.2	52
10	FlexMaps. ACM Transactions on Graphics, 2018, 37, 1-14.	7.2	46
11	HexaLab.net: An online viewer for hexahedral meshes. CAD Computer Aided Design, 2019, 110, 24-36.	2.7	41
12	State of the Art on Stylized Fabrication. Computer Graphics Forum, 2018, 37, 325-342.	3.0	37
13	Solid-Texture Synthesis: A Survey. IEEE Computer Graphics and Applications, 2010, 30, 74-89.	1.2	33
14	Statics Aware Grid Shells. Computer Graphics Forum, 2015, 34, 627-641.	3.0	33
15	LoopyCuts. ACM Transactions on Graphics, 2020, 39, .	7.2	31
16	Splitting cubes: a fast and robust technique for virtual cutting. Visual Computer, 2009, 25, 227-239.	3.5	30
17	Tracing Fieldâ€Coherent Quad Layouts. Computer Graphics Forum, 2016, 35, 485-496.	3.0	27
18	A robust method for real-time thread simulation. , 2007, , .		25

#	Article	IF	Citations
19	Global parametrization of range image sets. ACM Transactions on Graphics, 2011, 30, 1-10.	7.2	23
20	Automatic Construction of Quad-Based Subdivision Surfaces Using Fitmaps. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 1510-1520.	4.4	22
21	Position-based tensegrity design. ACM Transactions on Graphics, 2017, 36, 1-14.	7.2	22
22	Metamolds. ACM Transactions on Graphics, 2018, 37, 1-13.	7.2	22
23	A computer-assisted constraint-based system for assembling fragmented objects. , 2013, , .		21
24	Data-driven interactive quadrangulation. ACM Transactions on Graphics, 2015, 34, 1-10.	7.2	21
25	FlexMolds. ACM Transactions on Graphics, 2016, 35, 1-12.	7.2	21
26	Reliable feature-line driven quad-remeshing. ACM Transactions on Graphics, 2021, 40, 1-17.	7.2	20
27	Texturing Internal Surfaces from a Few Cross Sections. Computer Graphics Forum, 2007, 26, 637-644.	3.0	16
28	Animationâ€Aware Quadrangulation. Computer Graphics Forum, 2013, 32, 167-175.	3.0	15
29	Reconstructing head models from photographs for individualized 3Dâ€audio processing. Computer Graphics Forum, 2008, 27, 1719-1727.	3.0	14
30	An Interactive Local Flattening Operator to Support Digital Investigations on Artwork Surfaces. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 1989-1996.	4.4	14
31	Simple quad domains for field aligned mesh parametrization. , 2011, , .		14
32	Stability of Statics Aware Voronoi Grid-Shells. Engineering Structures, 2016, 116, 70-82.	5.3	14
33	QuadMixer. ACM Transactions on Graphics, 2019, 38, 1-13.	7.2	14
34	Volume-aware design of composite molds. ACM Transactions on Graphics, 2019, 38, 1-12.	7.2	12
35	Automatic Design of Cableâ€Tensioned Glass Shells. Computer Graphics Forum, 2020, 39, 260-273.	3.0	12
36	Reinforcement of General Shell Structures. ACM Transactions on Graphics, 2020, 39, 1-19.	7.2	12

#	Article	IF	Citations
37	Suckers Emission Detection and Volume Estimation for the Precision Farming of Hazelnut Orchards. , 2020, , .		8
38	A bending-active twisted-arch plywood structure: computational design and fabrication of the FlexMaps Pavilion. SN Applied Sciences, 2020, 2, 1.	2.9	8
39	Integrated computational framework for the design and fabrication of bending-active structures made from flat sheet material. Structures, 2021, 34, 979-994.	3.6	8
40	Feature-aligned T-meshes. , 2010, , .		7
41	Skeleton-Based Conditionally Independent Gaussian Process Implicit Surfaces for Fusion in Sparse to Dense 3D Reconstruction. IEEE Robotics and Automation Letters, 2020, 5, 1532-1539.	5.1	7
42	Conception and parametric design workflow for a timber large-spanned reversible grid shell to shelter the archaeological site of the roman shipwrecks in pisa. International Journal of Computational Methods and Experimental Measurements, 2017, 5, 551-561.	0.2	4
43	Automatic Surface Segmentation for Seamless Fabrication Using 4â€axis Milling Machines. Computer Graphics Forum, 2021, 40, 191-203.	3.0	3
44	State of the art on stylized fabrication. , 2019, , .		3
45	Volume decomposition for two-piece rigid casting. ACM Transactions on Graphics, 2021, 40, 1-14.	7.2	3
46	Real-time single scattering inside inhomogeneous materials. Visual Computer, 2010, 26, 583-593.	3.5	1
47	New techniques for computer-based simulation in surgical training. International Journal of Biomedical Engineering and Technology, 2011, 5, 303.	0.2	1
48	Reliable feature-line driven quad-remeshing. ACM Transactions on Graphics, 2021, 40, 1-17.	7.2	1
49	Foreword to the Special Section on Shape Modeling International 2020. Computers and Graphics, 2020, 90, A4-A6.	2.5	0