Nico Pietroni

List of Publications by Year
in descending order

49 papers	1,658 citations	331670 21 h-index	302126 39 g-index
51 all docs	51 docs citations	51 times ranked	1003 citing authors

#	Article	IF	Citations
1	Automatic Surface Segmentation for Seamless Fabrication Using 4‑axis Milling Machines. Computer Graphics Forum, 2021, 40, 191-203.	3.0	3
2	Reliable feature-line driven quad-remeshing. ACM Transactions on Graphics, 2021, 40, 1-17.	7.2	1
3	Reliable feature-line driven quad-remeshing. ACM Transactions on Graphics, 2021, 40, 1-17.	7.2	20
4	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
5	Volume decomposition for two-piece rigid casting. ACM Transactions on Graphics, 2021, 40, 1-14.	7.2	3
6	Automatic Design of Cable‑Tensioned Glass Shells. Computer Graphics Forum, 2020, 39, 260-273.	3.0	12
7	Foreword to the Special Section on Shape Modeling International 2020. Computers and Graphics, 2020, 90, A4-A6.	2.5	0
8	Suckers Emission Detection and Volume Estimation for the Precision Farming of Hazelnut Orchards. , 2020, , .		8
9	A bending-active twisted-arch plywood structure: computational design and fabrication of the FlexMaps Pavilion. SN Applied Sciences, 2020, 2, 1.	2.9	8
10	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
11	Reinforcement of General Shell Structures. ACM Transactions on Graphics, 2020, 39, 1-19.	7.2	12
12	<i>LoopyCuts</i>. ACM Transactions on Graphics, 2020, 39, .	7.2	31
13	Volume-aware design of composite molds. ACM Transactions on Graphics, 2019, 38, 1-12.	7.2	12
14	QuadMixer. ACM Transactions on Graphics, 2019, 38, 1-13.	7.2	14
15	HexaLab.net: An online viewer for hexahedral meshes. CAD Computer Aided Design, 2019, 110, 24-36.	2.7	41
16	State of the art on stylized fabrication. , 2019, , .		3
17	State of the Art on Stylized Fabrication. Computer Graphics Forum, 2018, 37, 325-342.	3.0	37
18	Metamolds. ACM Transactions on Graphics, 2018, 37, 1-13.	7.2	22

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19	FlexMaps. ACM Transactions on Graphics, 2018, 37, 1-14.	7.2	46
20	Digital Fabrication Techniques for Cultural Heritage: A Survey. Computer Graphics Forum, 2017, 36, 6-21.	3.0	91
21	Position-based tensegrity design. ACM Transactions on Graphics, 2017, 36, 1-14.	7.2	22
22	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
23	FlexMolds. ACM Transactions on Graphics, 2016, 35, 1-12.	7.2	21
24	Tracing Field–Coherent Quad Layouts. Computer Graphics Forum, 2016, 35, 485-496.	3.0	27
25	Stability of Statics Aware Voronoi Grid-Shells. Engineering Structures, 2016, 116, 70-82.	5.3	14
26	Statics Aware Grid Shells. Computer Graphics Forum, 2015, 34, 627-641.	3.0	33
27	Elastic textures for additive fabrication. ACM Transactions on Graphics, 2015, 34, 1-12.	7.2	199
28	Data-driven interactive quadrangulation. ACM Transactions on Graphics, 2015, 34, 1-10.	7.2	21
29	Robust field-aligned global parametrization. ACM Transactions on Graphics, 2014, 33, 1-14.	7.2	108
30	Field-aligned mesh joinery. ACM Transactions on Graphics, 2014, 33, 1-12.	7.2	65
31	Animation–Aware Quadrangulation. Computer Graphics Forum, 2013, 32, 167-175.	3.0	15
32	A computer-assisted constraint-based system for assembling fragmented objects. , 2013, , .		21
33	Quad–Mesh Generation and Processing: A Survey. Computer Graphics Forum, 2013, 32, 51-76.	3.0	229
34	Automatic Construction of Quad-Based Subdivision Surfaces Using Fitmaps. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 1510-1520.	4.4	22
35	New techniques for computer-based simulation in surgical training. International Journal of Biomedical Engineering and Technology, 2011, 5, 303.	0.2	1
36	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

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37	Simple quad domains for field aligned mesh parametrization. , 2011, , .		14
38	Simple quad domains for field aligned mesh parametrization. ACM Transactions on Graphics, 2011, 30, 1-12.	7.2	68
39	Global parametrization of range image sets. ACM Transactions on Graphics, 2011, 30, 1-10.	7.2	23
40	Real-time single scattering inside inhomogeneous materials. Visual Computer, 2010, 26, 583-593.	3.5	1
41	Solid-Texture Synthesis: A Survey. IEEE Computer Graphics and Applications, 2010, 30, 74-89.	1.2	33
42	Practical quad mesh simplification. Computer Graphics Forum, 2010, 29, 407-418.	3.0	87
43	Feature-aligned T-meshes. , 2010, , .		7
44	Feature-aligned T-meshes. ACM Transactions on Graphics, 2010, 29, 1-11.	7.2	52
45	Almost Isometric Mesh Parameterization through Abstract Domains. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 621-635.	4.4	91
46	Splitting cubes: a fast and robust technique for virtual cutting. Visual Computer, 2009, 25, 227-239.	3.5	30
47	Reconstructing head models from photographs for individualized 3Dâ€audio processing. Computer Graphics Forum, 2008, 27, 1719-1727.	3.0	14
48	A robust method for real-time thread simulation. , 2007, , .		25
49	Texturing Internal Surfaces from a Few Cross Sections. Computer Graphics Forum, 2007, 26, 637-644.	3.0	16