

Peter Schröder

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

5,099
citations

394421

19
h-index

642732

23
g-index

31
all docs

31
docs citations

31
times ranked

2507
citing authors

#	ARTICLE	IF	CITATIONS
1	Implicit fairing of irregular meshes using diffusion and curvature flow. , 1999, , .		989
2	Subdivision surfaces: a new paradigm for thin-shell finite-element analysis. International Journal for Numerical Methods in Engineering, 2000, 47, 2039-2072.	2.8	530
3	Sparse matrix solvers on the GPU. ACM Transactions on Graphics, 2003, 22, 917-924.	7.2	491
4	Progressive geometry compression. , 2000, , .		414
5	Multiresolution signal processing for meshes. , 1999, , .		350
6	Interactive multiresolution mesh editing. , 1997, , .		349
7	Interpolating Subdivision for meshes with arbitrary topology. , 1996, , .		342
8	Integrated modeling, finite-element analysis, and engineering design for thin-shell structures using subdivision. CAD Computer Aided Design, 2002, 34, 137-148.	2.7	171
9	CHARMS. ACM Transactions on Graphics, 2002, 21, 281-290.	7.2	162
10	Globally optimal direction fields. ACM Transactions on Graphics, 2013, 32, 1-10.	7.2	136
11	Multiscale Representations for Manifold-Valued Data. Multiscale Modeling and Simulation, 2005, 4, 1201-1232.	1.6	131
12	Globally smooth parameterizations with low distortion. ACM Transactions on Graphics, 2003, 22, 350-357.	7.2	121
13	A unified framework for primal/dual quadrilateral subdivision schemes. Computer Aided Geometric Design, 2001, 18, 429-454.	1.2	109
14	Design of tangent vector fields. ACM Transactions on Graphics, 2007, 26, 56.	7.2	102
15	Quantum Monte Carlo on graphical processing units. Computer Physics Communications, 2007, 177, 298-306.	7.5	99
16	Trivial Connections on Discrete Surfaces. Computer Graphics Forum, 2010, 29, 1525-1533.	3.0	99
17	Stripe patterns on surfaces. ACM Transactions on Graphics, 2015, 34, 1-11.	7.2	77
18	Composite primal/dual -subdivision schemes. Computer Aided Geometric Design, 2003, 20, 135-164.	1.2	71

#	ARTICLE	IF	CITATIONS
19	Natural hierarchical refinement for finite element methods. International Journal for Numerical Methods in Engineering, 2003, 56, 1109-1124.	2.8	69
20	Trimming for subdivision surfaces. Computer Aided Geometric Design, 2001, 18, 463-481.	1.2	61
21	Multilevel Solvers for Unstructured Surface Meshes. SIAM Journal of Scientific Computing, 2005, 26, 1146-1165.	2.8	55
22	Edge subdivision schemes and the construction of smooth vector fields. ACM Transactions on Graphics, 2006, 25, 1041-1048.	7.2	40
23	Shape from metric. ACM Transactions on Graphics, 2018, 37, 1-17.	7.2	25
24	Wavelet Projections for Radiosity. Computer Graphics Forum, 1994, 13, 141-151.	3.0	23
25	Curvature integrability of subdivision surfaces. Advances in Computational Mathematics, 2001, 14, 157-174.	1.6	22
26	Subdivision as a fundamental building block of digital geometry processing algorithms. Journal of Computational and Applied Mathematics, 2002, 149, 207-219.	2.0	18
27	Splines in the Space of Shells. Computer Graphics Forum, 2016, 35, 111-120.	3.0	17
28	Building your own DEC at home. , 2006, , .		16
29	Subdivision surfaces: a new paradigm for thin-shell finite-element analysis. , 2000, 47, 2039.		4
30	Edge subdivision schemes and the construction of smooth vector fields. , 2006, , .		3