

# Eugene Zhang

## List of Publications by Year in descending order

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37  
papers

1,691  
citations

361045

20  
h-index

454577

30  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1168  
citing authors

#	ARTICLE	IF	CITATIONS
1	Feature-based surface parameterization and texture mapping. ACM Transactions on Graphics, 2005, 24, 1-27.	4.9	242
2	Vector field design on surfaces. ACM Transactions on Graphics, 2006, 25, 1294-1326.	4.9	178
3	Rotational symmetry field design on surfaces. ACM Transactions on Graphics, 2007, 26, 55.	4.9	136
4	The Planteome database: an integrated resource for reference ontologies, plant genomics and phenomics. Nucleic Acids Research, 2018, 46, D1168-D1180.	6.5	133
5	Interactive procedural street modeling. ACM Transactions on Graphics, 2008, 27, 1-10.	4.9	118
6	Allâ€Hex Mesh Generation via Volumetric PolyCube Deformation. Computer Graphics Forum, 2011, 30, 1407-1416.	1.8	110
7	Interactive Tensor Field Design and Visualization on Surfaces. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 94-107.	2.9	104
8	Vector Field Editing and Periodic Orbit Extraction Using Morse Decomposition. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 769-785.	2.9	103
9	Efficient Morse Decompositions of Vector Fields. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 848-862.	2.9	60
10	Design principles for origin-destination flow maps. Cartography and Geographic Information Science, 2018, 45, 62-75.	1.4	59
11	Evenly Spaced Streamlines for Surfaces: An Imageâ€Based Approach. Computer Graphics Forum, 2009, 28, 1618-1631.	1.8	58
12	Surface-based flow visualization. Computers and Graphics, 2012, 36, 974-990.	1.4	54
13	Asymmetric Tensor Analysis for Flow Visualization. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 106-122.	2.9	45
14	Force-directed layout of origin-destination flow maps. International Journal of Geographical Information Science, 2017, 31, 1521-1540.	2.2	38
15	Interactive Visualization of Rotational Symmetry Fields on Surfaces. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 947-955.	2.9	30
16	Geometry Synthesis on Surfaces Using Field-Guided Shape Grammars. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 231-243.	2.9	28
17	Robust Morse Decompositions of Piecewise Constant Vector Fields. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 938-951.	2.9	27
18	Asymmetric Tensor Field Visualization for Surfaces. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 1979-1988.	2.9	24

#	ARTICLE	IF	CITATIONS
19	Morse Set Classification and Hierarchical Refinement Using Conley Index. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 767-782.	2.9	22
20	Design of 2D Time-Varying Vector Fields. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 1717-1730.	2.9	20
21	Easy integral surfaces. , 2009, , .		19
22	Tensor field design in volumes. ACM Transactions on Graphics, 2017, 36, 1-15.	4.9	14
23	Laboratory experiments on counter-propagating collisions of solitary waves. Part 2. Flow field. Journal of Fluid Mechanics, 2014, 755, 463-484.	1.4	10
24	Optical illusion shape texturing using repeated asymmetric patterns. Visual Computer, 2014, 30, 809-819.	2.5	9
25	Exploration and Visualization of Patterns Underlying Multistakeholder Preferences in Watershed Conservation Decisions Generated by an Interactive Genetic Algorithm. Water Resources Research, 2021, 57, e2020WR028013.	1.7	9
26	A robust hybrid image-based modeling system. Visual Computer, 2016, 32, 625-640.	2.5	7
27	Automatic, tensor-guided illustrative vector field visualization. , 2013, , .		6
28	Bringing Topology-Based Flow Visualization to the Application Domain. Mathematics and Visualization, 2009, , 161-176.	0.4	6
29	Graphical 3D Visualization of Highway Bridge Ratings. Journal of Computing in Civil Engineering, 2009, 23, 355-362.	2.5	5
30	Constructing streak surfaces for 3D unsteady vector fields. , 2010, , .		5
31	2D Asymmetric Tensor Field Topology. Mathematics and Visualization, 2012, , 191-204.	0.4	5
32	Mode Surfaces of Symmetric Tensor Fields: Topological Analysis and Seamless Extraction. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 583-592.	2.9	4
33	A distribution-based approach to tracking points in velocity vector fields. , 2009, , .		1
34	Course notes rotational symmetries on surfaces. , 2016, , .		1
35	Feature Curves and Surfaces of 3D Asymmetric Tensor Fields. IEEE Transactions on Visualization and Computer Graphics, 2021, PP, 1-1.	2.9	1
36	Tensor Field Design: Algorithms and Applications. Mathematics and Visualization, 2012, , 111-133.	0.4	0

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37	A distribution-based approach to tracking points in velocity vector fields. , 2009, , .		0