

# Arie Kaufman

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11885048/publications.pdf>

Version: 2024-02-01

59  
papers

1,721  
citations

567281

15  
h-index

414414

32  
g-index

62  
all docs

62  
docs citations

62  
times ranked

907  
citing authors

#	ARTICLE	IF	CITATIONS
1	Eccentricity effects on blur and depth perception. Optics Express, 2020, 28, 6734.	3.4	7
2	Corresponding Supine and Prone Colon Visualization Using Eigenfunction Analysis and Fold Modeling. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 751-760.	4.4	14
3	Perceptually-guided foveation for light field displays. ACM Transactions on Graphics, 2017, 36, 1-13.	7.2	42
4	Crowdsourcing for identification of polyp-free segments in virtual colonoscopy videos. , 2017, , .		8
5	C <sup>2</sup> A: Crowd consensus analytics for virtual colonoscopy. , 2016, , .		10
6	Computer-aided detection of polyps in optical colonoscopy images. Proceedings of SPIE, 2016, 9785, .	0.8	12
7	Multimodal brain visualization. , 2016, , .		0
8	Shape-based multifeature brain parcellation. Proceedings of SPIE, 2016, , .	0.8	0
9	Planar Visualization of Treelike Structures. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 906-915.	4.4	15
10	Colon Flattening Using Heat Diffusion Riemannian Metric. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 2848-2857.	4.4	13
11	Area-Preservation Mapping using Optimal Mass Transport. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 2838-2847.	4.4	69
12	Context Preserving Maps of Tubular Structures. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 1997-2004.	4.4	6
13	Volumetric colon wall unfolding using harmonic differentials. Computers and Graphics, 2011, 35, 726-732.	2.5	8
14	Conformal Geometry Based Supine and Prone Colon Registration. Lecture Notes in Computer Science, 2011, , 113-119.	1.3	3
15	Supine and Prone Colon Registration Using Quasi-Conformal Mapping. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 1348-1357.	4.4	63
16	Implementing the lattice Boltzmann model on commodity graphics hardware. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P06016.	2.3	9
17	Dependency graph approach to load balancing distributed volume visualization. Visual Computer, 2009, 25, 325-337.	3.5	0
18	Visual simulation of thermal fluid dynamics in a pressurized water reactor. Visual Computer, 2009, 25, 985-996.	3.5	6

#	ARTICLE	IF	CITATIONS
19	Virtually assisted optical colonoscopy. , 2008, , .		5
20	Simulation of Free Feather Behavior. , 2007, , 497-502.		0
21	Conformal virtual colon flattening. , 2006, , .		66
22	A Pipeline for Computer Aided Polyp Detection. IEEE Transactions on Visualization and Computer Graphics, 2006, 12, 861-868.	4.4	46
23	Melting and flowing in multiphase environment. Computers and Graphics, 2006, 30, 519-528.	2.5	26
24	Overview of Volume Rendering. , 2005, , 127-174.		80
25	Implementing lattice Boltzmann computation on graphics hardware. Visual Computer, 2003, 19, 444-456.	3.5	141
26	Automatic centerline extraction for virtual colonoscopy. IEEE Transactions on Medical Imaging, 2002, 21, 1450-1460.	8.9	121
27	Novel Techniques for Robust Voxelization and Visualization of Implicit Surfaces. Graphical Models, 2001, 63, 387-412.	2.4	17
28	GI-cube. , 2000, , .		8
29	Volumetric Backprojection. , 2000, , .		0
30	Optimized Interpolation for Volume Ray Casting. Journal of Graphics Tools, 1999, 4, 11-24.	0.5	2
31	Boundary cell-based acceleration for volume ray casting. Computers and Graphics, 1998, 22, 715-722.	2.5	11
32	Virtual voyage. , 1997, , .		220
33	Three Architectures for Volume Rendering. Computer Graphics Forum, 1995, 14, 111-122.	3.0	9
34	Gradient estimation and sheared interpolation for the cube architecture. Computers and Graphics, 1995, 19, 667-677.	2.5	4
35	Generating a smooth voxel-based model from an irregular polygon mesh. Visual Computer, 1994, 10, 295-305.	3.5	5
36	State of the Art in Volume Visualization. , 1994, , 166-177.		3

#	ARTICLE	IF	CITATIONS
37	A fast display method for volumetric data. Visual Computer, 1993, 10, 116-124.	3.5	12
38	Modeling in Volume Graphics. , 1993, , 441-454.		7
39	Normal estimation in 3 D discrete space. Visual Computer, 1992, 8, 278-291.	3.5	62
40	Template-Based Volume Viewing. Computer Graphics Forum, 1992, 11, 153-167.	3.0	84
41	Building a Full Scale V LSI-Based Volume Visualization System. , 1992, , 109-115.		0
42	Fundamentals of Volume Visualization. , 1992, , 239-252.		2
43	3D Volume Visualization. , 1991, , 175-203.		23
44	Introduction to Volume Synthesis. , 1991, , 27-35.		3
45	Context Sensitive Normal Estimation for Volume Imaging. , 1991, , 211-234.		5
46	Toward a Three-Dimensional User Interface. , 1991, , 255-267.		0
47	Tools for Interactive Prototyping of Two-Dimensional and Three-Dimensional User Interfaces. , 1991, , 235-253.		0
48	Real time discrete shading. Visual Computer, 1990, 6, 16-27.	3.5	29
49	Direct interaction with a 3D volumetric environment. Computer Graphics, 1990, 24, 33-34.	0.1	3
50	Medicube: A 3D medical imaging architecture. Computers and Graphics, 1989, 13, 151-157.	2.5	13
51	TSLâ€”A Texture Synthesis Language. Visual Computer, 1988, 4, 148-158.	3.5	12
52	The CUBE workstation â€”a 3-D voxel-based graphics environment. Visual Computer, 1988, 4, 210-221.	3.5	15
53	Efficient algorithms for scan-converting 3D polygons. Computers and Graphics, 1988, 12, 213-219.	2.5	63
54	CUBE â€” An Architecture Based on a 3D Voxel Map. , 1988, , 689-701.		4

#	ARTICLE	IF	CITATIONS
55	Efficient algorithms for 3D scan-conversion of parametric curves, surfaces, and volumes. Computer Graphics, 1987, 21, 171-179.	0.1	139
56	3D scan-conversion algorithms for voxel-based graphics. , 1987, , .		95
57	Computer artist's color naming system. Visual Computer, 1986, 2, 255-260.	3.5	5
58	Tailored-List and Recombination-Delaying Buddy Systems. ACM Transactions on Programming Languages and Systems, 1984, 6, 118-125.	2.1	17
59	A human factors study of color notation systems for computer graphics. Communications of the ACM, 1982, 25, 547-550.	4.5	38