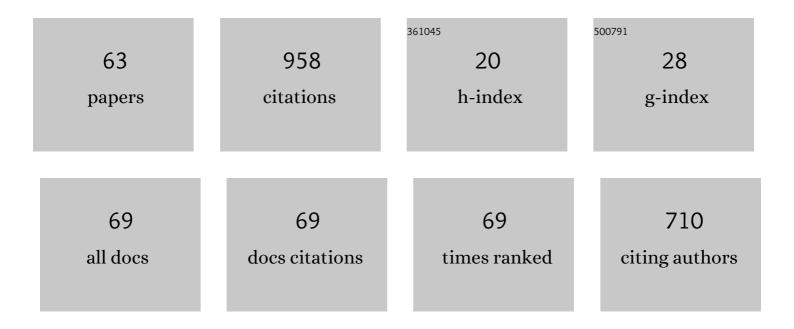
## Yi-Yu Cai

## List of Publications by Year in descending order

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ΥΙ-ΥΙΙ ΟΛ

#	Article	IF	CITATIONS
1	Design and Development of a Virtual Dolphinarium for Children With Autism. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 208-217.	2.7	103
2	Parallel genetic algorithm based automatic path planning for crane lifting in complex environments. Automation in Construction, 2016, 62, 133-147.	4.8	73
3	Automatic re-planning of lifting paths for robotized tower cranes in dynamic BIM environments. Automation in Construction, 2020, 110, 102998.	4.8	44
4	Automatic Path Planning for Dual-Crane Lifting in Complex Environments Using a Prioritized Multiobjective PGA. IEEE Transactions on Industrial Informatics, 2018, 14, 829-845.	7.2	39
5	Learning through VR gaming with virtual pink dolphins for children with ASD. Interactive Learning Environments, 2018, 26, 718-729.	4.4	36
6	Mesh Denoising using Extended ROF Model with <i>L</i> <sub>1</sub> Fidelity. Computer Graphics Forum, 2015, 34, 35-45.	1.8	33
7	Real-Time Interactive Simulator for Percutaneous Coronary Revascularization Procedures. Computer Aided Surgery, 1998, 3, 211-227.	1.8	32
8	Virtual Reality Training In Interventional Radiology: The Johns Hopkins and Kent Ridge Digital Laboratory Experience. Seminars in Interventional Radiology, 2002, 19, 179-186.	0.3	32
9	Realâ€ŧime interactive simulator for percutaneous coronary revascularization procedures. Computer Aided Surgery, 1998, 3, 211-227.	1.8	32
10	VR simulated training for less invasive vascular intervention. Computers and Graphics, 2003, 27, 215-221.	1.4	31
11	Bio-edutainment: Learning life science through X gaming. Computers and Graphics, 2006, 30, 3-9.	1.4	31
12	An automatic segmentation algorithm for 3D cell cluster splitting using volumetric confocal images. Journal of Microscopy, 2011, 243, 60-76.	0.8	31
13	Accurate and Efficient Approximation of Clothoids Using Bézier Curves for Path Planning. IEEE Transactions on Robotics, 2017, 33, 1242-1247.	7.3	30
14	Ultra‣owâ€Cost, Crosstalkâ€Free, Fastâ€Responding, Wideâ€&ensingâ€Range Tactile Fingertip Sensor for Sr Gloves. Advanced Materials Interfaces, 2022, 9, .	nart 1.9	30
15	Tactile VR for hand–eye coordination in simulated PTCA. Computers in Biology and Medicine, 2006, 36, 167-180.	3.9	23
16	Immersive protein gaming for bio edutainment. Simulation and Gaming, 2006, 37, 466-475.	1.2	23
17	Adaptive correction technique for 3D reconstruction of fluorescence microscopy images. Microscopy Research and Technique, 2008, 71, 146-157.	1.2	23
18	Design and development of VR learning environments for children with ASD. Interactive Learning Environments, 2017, 25, 1098-1109.	4.4	23

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#	Article	IF	CITATIONS
19	Constructive modeling of G1 bifurcation. Computer Aided Geometric Design, 2002, 19, 513-531.	0.5	22
20	Computer Environment for Interventional Neuroradiology Procedures. Simulation and Gaming, 2001, 32, 404-419.	1.2	21
21	A VR Simulator for Intracardiac Intervention. IEEE Computer Graphics and Applications, 2013, 33, 44-57.	1.0	20
22	BIM4D-based scheduling for assembling and lifting in precast-enabled construction. Automation in Construction, 2022, 133, 103999.	4.8	17
23	Constructive algorithms of vascular network modeling for training of minimally invasive catheterization procedure. Advances in Engineering Software, 2003, 34, 439-450.	1.8	13
24	Development of augmented reality serious games with a vibrotactile feedback jacket. Virtual Reality & Intelligent Hardware, 2020, 2, 454-470.	1.8	13
25	Making Doo-Sabin surface interpolation always work over irregular meshes. Visual Computer, 2005, 21, 242-251.	2.5	12
26	BEACon: a boundary embedded attentional convolution network for point cloud instance segmentation. Visual Computer, 2022, 38, 2303-2313.	2.5	12
27	Multi-center evaluation of artificial intelligent imaging and clinical models for predicting neoadjuvant chemotherapy response in breast cancer. Breast Cancer Research and Treatment, 2022, 193, 121-138.	1.1	12
28	A geometric approach to the modeling of the catheter–heart interaction for VR simulation of intra-cardiac intervention. Computers and Graphics, 2011, 35, 1013-1022.	1.4	11
29	Reliable and Dynamic Appearance Modeling and Label Consistency Enforcing for Fast and Coherent Video Object Segmentation With the Bilateral Grid. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 4781-4795.	5.6	10
30	Kernel modeling for molecular surfaces using a uniform solution. CAD Computer Aided Design, 2010, 42, 267-278.	1.4	8
31	Real-Time and Realistic Simulation for Cardiac Intervention with GPU. , 2010, , .		8
32	Simulation-Enabled Vocational Training for Heavy Crane Operations. Gaming Media and Social Effects, 2017, , 47-59.	0.7	8
33	Interactive Virtual Reality Game for Online Learning of Science Subject in Primary Schools. , 2021, , .		8
34	ICT-Enabled Emotional Learning for Special Needs Education. Gaming Media and Social Effects, 2017, , 29-45.	0.7	7
35	Introduction to 3D Immersive and Interactive Learning. , 2013, , 1-16.		7

Generalized hierarchical NURBS for interactive shape modification. , 2008, , .

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#	Article	IF	CITATIONS
37	3D boundary extraction of confocal cellular images using higher order statistics. Journal of Microscopy, 2009, 235, 209-220.	0.8	6
38	Laser Scanned Real Environment for Intelligent Virtualization of Crane Lifting. Virtual Reality & Intelligent Hardware, 2020, 2, 87-103.	1.8	6
39	A Gaze Tracking System for Children with Autism Spectrum Disorders. Gaming Media and Social Effects, 2017, , 137-145.	0.7	5
40	An adaptive deviation-feedback approach for simulating multiple devices interaction in virtual interventional radiology. CAD Computer Aided Design, 2019, 117, 102738.	1.4	5
41	Fast 3D Modeling of Prosthetic Robotic Hands Based on a Multi-Layer Deformable Design. International Journal of Bioprinting, 2021, 8, 406.	1.7	5
42	DYNAMIC LINEAR LEVEL OCTREE-BASED VOLUME RENDERING METHODS FOR INTERACTIVE MICROSURGICAL SIMULATION. International Journal of Image and Graphics, 2006, 06, 155-171.	1.2	4
43	Virtual reality enhanced pink dolphin game for children with ASD. , 2016, , .		4
44	Modeling of the Human Orbit from MR Images. Lecture Notes in Computer Science, 2002, , 339-347.	1.0	4
45	MODELING AND MOTION CONTROL OF ROBOTIC HAND FOR TELEMANIPULATION APPLICATION. International Journal of Software Engineering and Knowledge Engineering, 2005, 15, 147-152.	0.6	3
46	Freeform-based form feature modeling using a hierarchical & multi-resolution NURBS method. , 2010, ,		3
47	Adaptiveâ€weighted cubic Bâ€spline using lookup tables for fast and efficient axial resampling of 3D confocal microscopy images. Microscopy Research and Technique, 2012, 75, 20-27.	1.2	3
48	Variational reconstruction using subdivision surfaces with continuous sharpness control. Computational Visual Media, 2017, 3, 217-228.	10.8	3
49	Point Cloud Based Path Planning for Tower Crane Lifting. , 2018, , .		3
50	Hardware-accelerated collision detection for 3D virtual reality gaming. Simulation and Gaming, 2006, 37, 476-490.	1.2	2
51	Interactive & Immersive VR Image Processing and Visualization. , 2006, , .		2
52	Madam Snake White: A Case Study on Virtual Reality Continuum Applications for Singaporean Culture and Heritage at Haw Par Villa. Presence: Teleoperators and Virtual Environments, 2017, 26, 378-388.	0.3	2
53	Supermarket Route-Planning Game: A Serious Game for the Rehabilitation of Planning Executive Function of Children with ASD. Gaming Media and Social Effects, 2019, , 111-119.	0.7	2
54	Virtual Pink Dolphins and Lagoon. Gaming Media and Social Effects, 2021, , 77-95.	0.7	2

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#	Article	IF	CITATIONS
55	The Virtual Pink Dolphins Project: An International Effort for Children with ASD in Special Needs Education. Gaming Media and Social Effects, 2017, , 1-11.	0.7	2
56	Monge mapping using hierarchical NURBS. Visual Computer, 2010, 26, 779-789.	2.5	1
57	Augmented Reality Simulation of Cardiac Circulation Using APPLearn (Heart). , 2018, , .		1
58	Design of a Virtual Home for Special Needs Children to Learn Life Skills. Gaming Media and Social Effects, 2021, , 31-61.	0.7	1
59	VIRTUAL & amp; AUGMENTED REALITY TECHNOLOGY HELP LEARNING OF BIOLOGY IN SECONDARY SCHOOLS. EDULEARN Proceedings, 2021, , .	0.0	1
60	An architecture of a VR simulation system for cardiac intervention. , 2008, , .		0
61	Learning Life Skills Through Gaming for Children with Autism Spectrum Disorder. Gaming Media and Social Effects, 2021, , 61-80.	0.7	Ο
62	Evaluation of Serious Games for Special Needs Education. Gaming Media and Social Effects, 2021, , 113-127.	0.7	0
63	Spatial Knowledge Acquisition in Virtual and Physical Reality: A Comparative Evaluation. , 2021, , .		0