Hong Qin

List of Publications by Year
in descending order

117 papers	1,899 citations	279798 23 h-index	330143 37 g-index
119 all docs	119 docs citations	119 times ranked	1163 citing authors

#	Article	IF	Citations
1	Self-adjustable hyper-graphs for video pose estimation based on spatial-temporal subspace construction. Science China Information Sciences, 2022, 65, 1.	4.3	1
2	Deeper Look at Image Salient Object Detection: Bi-Stream Network With a Small Training Dataset. IEEE Transactions on Multimedia, 2022, 24, 73-86.	7.2	28
3	Automatic Dental Plaque Segmentation Based on Local-to-Global Features Fused Self-Attention Network. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2240-2251.	6.3	9
4	Structure Correction for Robust Volume Segmentation in Presence of Tumors. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1151-1162.	6.3	7
5	Rethinking Image Salient Object Detection: Object-Level Semantic Saliency Reranking First, Pixelwise Saliency Refinement Later. IEEE Transactions on Image Processing, 2021, 30, 4238-4252.	9.8	16
6	Data-Level Recombination and Lightweight Fusion Scheme for RGB-D Salient Object Detection. IEEE Transactions on Image Processing, 2021, 30, 458-471.	9.8	55
7	A Global-Local Self-Adaptive Network for Drone-View Object Detection. IEEE Transactions on Image Processing, 2021, 30, 1556-1569.	9.8	72
8	Simulating Multi-Scale, Granular Materials and Their Transitions With a Hybrid Euler-Lagrange Solver. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 4483-4494.	4.4	1
9	Pointfilter: Point Cloud Filtering via Encoder-Decoder Modeling. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 2015-2027.	4.4	50
10	A Rapid, End-to-end, Generative Model for Gaseous Phenomena from Limited Views. Computer Graphics Forum, 2021, 40, 242-257.	3.0	5
11	A Plug-and-Play Scheme to Adapt Image Saliency Deep Model for Video Data. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2315-2327.	8.3	26
12	A novel robust zero-watermarking algorithm for medical images. Visual Computer, 2021, 37, 2841-2853.	3.5	18
13	Learning Physical Parameters and Detail Enhancement for Gaseous Scene Design Based on Data Guidance. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3867-3880.	4.4	2
14	Hierarchical Object Relationship Constrained Monocular Depth Estimation.. Pattern Recognition, 2021, 120, 108116.	8.1	9
15	Depth-Quality-Aware Salient Object Detection. IEEE Transactions on Image Processing, 2021, 30, 2350-2363.	9.8	68
16	Exploring Rich and Efficient Spatial Temporal Interactions for Real-Time Video Salient Object Detection. IEEE Transactions on Image Processing, 2021, 30, 3995-4007.	9.8	66
17	Accurate and Robust Feature Description and Dense Point-wise Matching based on Feature Fusion for Endoscopic Images. Computerized Medical Imaging and Graphics, 2021, 94, 102007.	5.8	3
18	Spatiotemporal consistency-based adaptive hand-held video stabilization. Science China Information Sciences, 2020, 63, 1.	4.3	1

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19	Compressing animated meshes with fine details using local spectral analysis and deformation transfer. Visual Computer, 2020, 36, 1029-1042.	3.5	3
20	Salient Object Detection via Multiple Instance Joint Re-Learning. IEEE Transactions on Multimedia, 2020, 22, 324-336.	7.2	44
21	Improved Robust Video Saliency Detection Based on Long-Term Spatial-Temporal Information. IEEE Transactions on Image Processing, 2020, 29, 1090-1100.	9.8	73
22	Contextualized CNN for Scene-Aware Depth Estimation From Single RGB Image. IEEE Transactions on Multimedia, 2020, 22, 1220-1233.	7.2	18
23	Robust and blind image watermarking via circular embedding and bidimensional empirical mode decomposition. Visual Computer, 2020, 36, 2201-2214.	3.5	13
24	A Novel Plastic Phaseâ€Field Method for Ductile Fracture with GPU Optimization. Computer Graphics Forum, 2020, 39, 105-117.	3.0	3
25	Stage-wise Salient Object Detection in 360Â° Omnidirectional Image via Object-level Semantical Saliency Ranking. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 3535-3545.	4.4	34
26	Real-time segmentation and tracking of excised corneal contour by deep neural networks for DALK surgical navigation. Computer Methods and Programs in Biomedicine, 2020, 197, 105679.	4.7	19
27	Real-time VR Simulation of Laparoscopic Cholecystectomy based on Parallel Position-based Dynamics in GPU. , 2020, , .		9
28	Multi-Cue Semi-Supervised Color Constancy With Limited Training Samples. IEEE Transactions on Image Processing, 2020, 29, 7875-7888.	9.8	7
29	Realâ€time suturing simulation for virtual reality medical training. Computer Animation and Virtual Worlds, 2020, 31, e1940.	1.2	4
30	Hybrid features for skeletonâ€based action recognition based on network fusion. Computer Animation and Virtual Worlds, 2020, 31, e1952.	1.2	2
31	An advanced hybrid smoothed particle hydrodynamicsâ€"fluid implicit particle method on adaptive grid for condensation simulation. Computer Animation and Virtual Worlds, 2020, 31, e1967.	1.2	2
32	Dynamic particle partitioning SPH model for high-speed fluids simulation. Graphical Models, 2020, 109, 101061.	2.4	1
33	Accelerating Liquid Simulation With an Improved Dataâ€Driven Method. Computer Graphics Forum, 2020, 39, 180-191.	3.0	3
34	Real-time VR Simulation of Laparoscopic Cholecystectomy based on Parallel Position-based Dynamics in GPU. , 2020, , .		2
35	Improved Saliency Detection in RGB-D Images Using Two-Phase Depth Estimation and Selective Deep Fusion. IEEE Transactions on Image Processing, 2020, 29, 4296-4307.	9.8	70
36	Accurate and Robust Video Saliency Detection via Self-Paced Diffusion. IEEE Transactions on Multimedia, 2020, 22, 1153-1167.	7.2	36

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37	Meta Transfer Learning for Adaptive Vehicle Tracking in UAV Videos. Lecture Notes in Computer Science, 2020, , 764-777.	1.3	2
38	Low-Shot Learning of Automatic Dental Plaque Segmentation Based on Local-to-Global Feature Fusion. , 2020, , .		6
39	An efficient FLIP and shape matching coupled method for fluidâ€"solid and two-phase fluid simulations. Visual Computer, 2019, 35, 1741-1753.	3.5	3
40	Dataâ€driven retrieval of spray details with random forestâ€based distance. Computer Animation and Virtual Worlds, 2019, 30, e1901.	1.2	0
41	Bidirectional Optimization Coupled Lightweight Networks for Efficient and Robust Multi-Person 2D Pose Estimation. Journal of Computer Science and Technology, 2019, 34, 522-536.	1.5	5
42	Using Virtual Digital Breast Tomosynthesis for De-Noising of Low-Dose Projection Images. , 2019, , .		7
43	Multitask learning on monocular water images: Surface reconstruction and image synthesis. Computer Animation and Virtual Worlds, 2019, 30, e1896.	1.2	4
44	Interactive animation generation of virtual characters using single RGB-D camera. Visual Computer, 2019, 35, 849-860.	3.5	12
45	Real-time simulation of electrocautery procedure using meshfree methods in laparoscopic cholecystectomy. Visual Computer, 2019, 35, 861-872.	3.5	10
46	Example-based rapid generation of vegetation on terrain via CNN-based distribution learning. Visual Computer, 2019, 35, 1181-1191.	3.5	12
47	Few-Shot Learning for Monocular Depth Estimation Based on Local Object Relationship. , 2019, , .		1
48	Redundant features removal for unsupervised spectral feature selection algorithms: an empirical study based on nonparametric sparse feature graph. International Journal of Data Science and Analytics, 2019, 8, 77-93.	4.1	7
49	Procedural modeling of rivers from single image toward natural scene production. Visual Computer, 2019, 35, 223-237.	3.5	3
50	A Hybrid Method for Powdered Materials Modeling. , 2019, , .		1
51	A Novel Bottom-Up Saliency Detection Method for Video With Dynamic Background. IEEE Signal Processing Letters, 2018, 25, 154-158.	3.6	29
52	Real-time dissection of organs via hybrid coupling of geometric metaballs and physics-centric mesh-free method. Visual Computer, 2018, 34, 105-116.	3.5	23
53	Automatic skinning and weight retargeting of articulated characters using extended position-based dynamics. Visual Computer, 2018, 34, 1285-1297.	3.5	4
54	Novel metaballs-driven approach with dynamic constraints for character articulation. Science China Information Sciences, 2018, 61, 1.	4.3	1

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55	Learning from Weakly-Labeled Clinical Data for Automatic Thyroid Nodule Classification in Ultrasound Images. , 2018, , .		17
56	Augmented Flow Simulation Based on Tight Coupling Between Video Reconstruction and Eulerian Models. Journal of Computer Science and Technology, 2018, 33, 452-462.	1.5	1
57	High-fidelity Compression of Dynamic Meshes with Fine Details using Piece-wise Manifold Harmonic Bases. , 2018, , .		2
58	Bilevel Feature Learning for Video Saliency Detection. IEEE Transactions on Multimedia, 2018, 20, 3324-3336.	7.2	57
59	Inverse Modelling of Incompressible Gas Flow in Subspace. Computer Graphics Forum, 2017, 36, 100-111.	3.0	3
60	Video Saliency Detection via Spatial-Temporal Fusion and Low-Rank Coherency Diffusion. IEEE Transactions on Image Processing, 2017, 26, 3156-3170.	9.8	148
61	A CADe system for nodule detection in thoracic CT images based on artificial neural network. Science China Information Sciences, 2017, 60, 1.	4.3	26
62	Real‐time simulation of soft tissue deformation and electrocautery procedures in laparoscopic rectal cancer radical surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2017, 13, e1827.	2.3	16
63	Interactive modeling of complex geometric details based on empirical mode decomposition for multi-scale 3D shapes. CAD Computer Aided Design, 2017, 87, 1-10.	2.7	10
64	Novel fluid detail enhancement based on multi‐layer depth regression analysis and FLIP fluid simulation. Computer Animation and Virtual Worlds, 2017, 28, e1741.	1.2	2
65	An efficient heat-based model for solid-liquid-gas phase transition and dynamic interaction. Graphical Models, 2017, 94, 14-24.	2.4	13
66	Video-based fluid reconstruction and its coupling with SPH simulation. Visual Computer, 2017, 33, 1211-1224.	3.5	8
67	An Extended Type Cell Detection and Counting Method based on FCN. , 2017, , .		13
68	Detail-Preserving 3D Shape Modeling from Raw Volumetric Dataset via Hessian-Constrained Local Implicit Surfaces Optimization. , 2016, , .		2
69	Interactive Dissection of Digital Organs Based on Metaballs. , 2016, , .		1
70	Haptics-equiped interactive PCI simulation for patient-specific surgery training and rehearsing. Science China Information Sciences, 2016, 59, 1.	4.3	6
71	Robust salient motion detection in non-stationary videos via novel integrated strategies of spatio-temporal coherency clues and low-rank analysis. Pattern Recognition, 2016, 52, 410-432.	8.1	64
72	Density-Aware Clustering Based on Aggregated Heat Kernel and Its Transformation. ACM Transactions on Knowledge Discovery From Data, 2015, 9, 1-35.	3.5	1

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73	A parallelized 4D reconstruction algorithm for vascular structures and motions based on energy optimization. Visual Computer, 2015, 31, 1431-1446.	3.5	12
74	Efficient EMD and Hilbert spectra computation for 3D geometry processing and analysis via space-filling curve. Visual Computer, 2015, 31, 1135-1145.	3.5	14
75	Real-time and robust object tracking in video via low-rank coherency analysis in feature space. Pattern Recognition, 2015, 48, 2885-2905.	8.1	49
76	Real‐time haptic manipulation and cutting of hybrid soft tissue models by extended position‐based dynamics. Computer Animation and Virtual Worlds, 2015, 26, 321-335.	1.2	44
77	Novel adaptive SPH with geometric subdivision for brittle fracture animation of anisotropic materials. Visual Computer, 2015, 31, 937-946.	3.5	8
78	Metaballs-based physical modeling and deformation of organs for virtual surgery. Visual Computer, 2015, 31, 947-957.	3.5	13
79	Structure-Sensitive Saliency Detection via Multilevel Rank Analysis in Intrinsic Feature Space. IEEE Transactions on Image Processing, 2015, 24, 2303-2316.	9.8	40
80	Hybrid Particle‐grid Modeling for Multi‐scale Droplet/Spray Simulation. Computer Graphics Forum, 2014, 33, 199-208.	3.0	17
81	Diverse Power Iteration Embeddings and Its Applications. , 2014, , .		7
82	Noise-Resistant Unsupervised Feature Selection via Multi-perspective Correlations. , 2014, , .		2
83	An Improved Ratio-Based (IRB) Batch Effects Removal Algorithm for Cancer Data in a Co-Analysis Framework. , 2014, , .		0
84	Physics-Based Anomaly Detection Defined on Manifold Space. ACM Transactions on Knowledge Discovery From Data, 2014, 9, 1-39.	3.5	13
85	Sparse approximation of 3D shapes via spectral graph wavelets. Visual Computer, 2014, 30, 751-761.	3.5	13
86	A novel, integrated smoke simulation design method supporting local projection and guiding control over adaptive grids. Visual Computer, 2013, 29, 883-892.	3.5	4
87	Hybrid particle‐grid fluid animation with enhanced details. Visual Computer, 2013, 29, 937-947.	3.5	20
88	Multi-scale local features based on anisotropic heat diffusion and global eigen-structure. Science China Information Sciences, 2013, 56, 1-10.	4.3	3
89	Robust Surface Consolidation of Scanned Thick Point Clouds. , 2013, , .		3
90	Unsupervised Co-segmentation of Complex Image Set via Bi-harmonic Distance Governed Multi-level Deformable Graph Clustering. , 2013, , .		1

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91	Four‐Dimensional Geometry Lens: A Novel Volumetric Magnification Approach. Computer Graphics Forum, 2013, 32, 122-133.	3.0	2
92	Flexible and rapid animation of brittle fracture using the smoothed particle hydrodynamics formulation. Computer Animation and Virtual Worlds, 2013, 24, 215-224.	1.2	9
93	Multi-scale, multi-level, heterogeneous features extraction and classification of volumetric medical images. , 2013, , .		4
94	A New Anomaly Detection Algorithm Based on Quantum Mechanics. , 2012, , .		9
95	Simultaneous structure and geometry detail completion based on interactive user sketches. Science China Information Sciences, 2012, 55, 1123-1137.	4.3	3
96	A Robust Clustering Algorithm Based on Aggregated Heat Kernel Mapping. , 2011, , .		13
97	Isotropic Mesh Simplification by Evolving the Geodesic Delaunay Triangulation. , 2011, , .		5
98	Learning Robust Similarity Measures for 3D Partial Shape Retrieval. International Journal of Computer Vision, 2010, 89, 408-431.	15.6	26
99	Image deconvolution using multigrid natural image prior and its applications. , 2010, , .		4
100	Illumination learning from a single image with unknown shape and texture. , 2010, , .		0
101	Generalized PolyCube Trivariate Splines. , 2010, , .		35
102	Active lighting learning for 3D model based vehicle tracking. , 2010, , .		0
103	Meshless methods for physics-based modeling and simulation of deformable models. Science in China Series F: Information Sciences, 2009, 52, 401-417.	1.1	8
104	Vehicle matching and recognition under large variations of pose and illumination. , 2009, , .		6
105	Vehicle matching and recognition under large variations of pose and illumination. , 2009, , .		0
106	PDE-Based Medial Axis Extraction and Shape Manipulation of Arbitrary Meshes. Journal of Systems Science and Complexity, 2008, 21, 609-625.	2.8	4
107	Automatic non-rigid registration of 3D dynamic data for facial expression synthesis and transfer. , 2008, , .		14
108	Surface completion for shape and appearance. Visual Computer, 2006, 22, 168-180.	3.5	33

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109	Automatic Shape Control of Triangular B-Splines of Arbitrary Topology. Journal of Computer Science and Technology, 2006, 21, 232-237.	1.5	11
110	Real-time meshless deformation. Computer Animation and Virtual Worlds, 2005, 16, 189-200.	1.2	25
111	Interactive shape modeling using Lagrangian surface flow. Visual Computer, 2005, 21, 279-288.	3.5	12
112	Scalar-field-guided adaptive shape deformation and animation. Visual Computer, 2004, 20, 47-66.	3.5	9
113	Interpolatory, solid subdivision of unstructured hexahedral meshes. Visual Computer, 2004, 20, 418-436.	3.5	9
114	Dynamic sculpting and animation of free-form subdivision solids. Visual Computer, 2002, 18, 81-96.	3.5	17
115	Direct Manipulation and Interactive Sculpting of PDE Surfaces. Computer Graphics Forum, 2000, 19, 261-270.	3.0	43
116	Piecewise C/sup 1/ continuous surface reconstruction of noisy point clouds via local implicit quadric regression. , 0, , .		29
117	Voxels on fire [computer animation]. , 0, , .		5