Hong Qin

List of Publications by Year
in descending order

117	1,899	279798	330143
papers	citations	23 h-index	37 g-index

119	119	119	1163
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Video Saliency Detection via Spatial-Temporal Fusion and Low-Rank Coherency Diffusion. IEEE Transactions on Image Processing, 2017, 26, 3156-3170.	9.8	148
2	Improved Robust Video Saliency Detection Based on Long-Term Spatial-Temporal Information. IEEE Transactions on Image Processing, 2020, 29, 1090-1100.	9.8	73
3	A Global-Local Self-Adaptive Network for Drone-View Object Detection. IEEE Transactions on Image Processing, 2021, 30, 1556-1569.	9.8	72
4	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
5	Depth-Quality-Aware Salient Object Detection. IEEE Transactions on Image Processing, 2021, 30, 2350-2363.	9.8	68
6	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
7	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
8	Bilevel Feature Learning for Video Saliency Detection. IEEE Transactions on Multimedia, 2018, 20, 3324-3336.	7.2	57
9	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
10	Pointfilter: Point Cloud Filtering via Encoder-Decoder Modeling. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 2015-2027.	4.4	50
11	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
12	Realâ€time haptic manipulation and cutting of hybrid soft tissue models by extended positionâ€based dynamics. Computer Animation and Virtual Worlds, 2015, 26, 321-335.	1.2	44
13	Salient Object Detection via Multiple Instance Joint Re-Learning. IEEE Transactions on Multimedia, 2020, 22, 324-336.	7.2	44
14	Direct Manipulation and Interactive Sculpting of PDE Surfaces. Computer Graphics Forum, 2000, 19, 261-270.	3.0	43
15	Structure-Sensitive Saliency Detection via Multilevel Rank Analysis in Intrinsic Feature Space. IEEE Transactions on Image Processing, 2015, 24, 2303-2316.	9.8	40
16	Accurate and Robust Video Saliency Detection via Self-Paced Diffusion. IEEE Transactions on Multimedia, 2020, 22, 1153-1167.	7.2	36
17	Generalized PolyCube Trivariate Splines. , 2010, , .		35
18	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

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19	Surface completion for shape and appearance. Visual Computer, 2006, 22, 168-180.	3.5	33
20	Piecewise C/sup 1/ continuous surface reconstruction of noisy point clouds via local implicit quadric regression. , 0, , .		29
21	A Novel Bottom-Up Saliency Detection Method for Video With Dynamic Background. IEEE Signal Processing Letters, 2018, 25, 154-158.	3.6	29
22	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
23	Learning Robust Similarity Measures for 3D Partial Shape Retrieval. International Journal of Computer Vision, 2010, 89, 408-431.	15.6	26
24	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
25	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
26	Real-time meshless deformation. Computer Animation and Virtual Worlds, 2005, 16, 189-200.	1.2	25
27	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
28	Hybrid particleâ€“grid fluid animation with enhanced details. Visual Computer, 2013, 29, 937-947.	3.5	20
29	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
30	Contextualized CNN for Scene-Aware Depth Estimation From Single RGB Image. IEEE Transactions on Multimedia, 2020, 22, 1220-1233.	7.2	18
31	A novel robust zero-watermarking algorithm for medical images. Visual Computer, 2021, 37, 2841-2853.	3.5	18
32	Dynamic sculpting and animation of free-form subdivision solids. Visual Computer, 2002, 18, 81-96.	3.5	17
33	Hybrid Particleâ€grid Modeling for Multiâ€scale Droplet/Spray Simulation. Computer Graphics Forum, 2014, 33, 199-208.	3.0	17
34	Learning from Weakly-Labeled Clinical Data for Automatic Thyroid Nodule Classification in Ultrasound Images. , 2018, , .		17
35	Realâ€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
36	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

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37	Automatic non-rigid registration of 3D dynamic data for facial expression synthesis and transfer. , 2008, , .		14
38	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
39	A Robust Clustering Algorithm Based on Aggregated Heat Kernel Mapping. , 2011, , .		13
40	Physics-Based Anomaly Detection Defined on Manifold Space. ACM Transactions on Knowledge Discovery From Data, 2014, 9, 1-39.	3.5	13
41	Sparse approximation of 3D shapes via spectral graph wavelets. Visual Computer, 2014, 30, 751-761.	3.5	13
42	Metaballs-based physical modeling and deformation of organs for virtual surgery. Visual Computer, 2015, 31, 947-957.	3.5	13
43	An efficient heat-based model for solid-liquid-gas phase transition and dynamic interaction. Graphical Models, 2017, 94, 14-24.	2.4	13
44	An Extended Type Cell Detection and Counting Method based on FCN. , 2017, , .		13
45	Robust and blind image watermarking via circular embedding and bidimensional empirical mode decomposition. Visual Computer, 2020, 36, 2201-2214.	3.5	13
46	Interactive shape modeling using Lagrangian surface flow. Visual Computer, 2005, 21, 279-288.	3.5	12
47	A parallelized 4D reconstruction algorithm for vascular structures and motions based on energy optimization. Visual Computer, 2015, 31, 1431-1446.	3.5	12
48	Interactive animation generation of virtual characters using single RGB-D camera. Visual Computer, 2019, 35, 849-860.	3.5	12
49	Example-based rapid generation of vegetation on terrain via CNN-based distribution learning. Visual Computer, 2019, 35, 1181-1191.	3.5	12
50	Automatic Shape Control of Triangular B-Splines of Arbitrary Topology. Journal of Computer Science and Technology, 2006, 21, 232-237.	1.5	11
51	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
52	Real-time simulation of electrocautery procedure using meshfree methods in laparoscopic cholecystectomy. Visual Computer, 2019, 35, 861-872.	3.5	10
53	Scalar-field-guided adaptive shape deformation and animation. Visual Computer, 2004, 20, 47-66.	3.5	9
54	Interpolatory, solid subdivision of unstructured hexahedral meshes. Visual Computer, 2004, 20, 418-436.	3.5	9

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55	A New Anomaly Detection Algorithm Based on Quantum Mechanics. , 2012, , .		9
56	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
57	Real-time VR Simulation of Laparoscopic Cholecystectomy based on Parallel Position-based Dynamics in GPU. , 2020, , .		9
58	Hierarchical Object Relationship Constrained Monocular Depth Estimation.. Pattern Recognition, 2021, 120, 108116.	8.1	9
59	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
60	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
61	Novel adaptive SPH with geometric subdivision for brittle fracture animation of anisotropic materials. Visual Computer, 2015, 31, 937-946.	3.5	8
62	Video-based fluid reconstruction and its coupling with SPH simulation. Visual Computer, 2017, 33, 1211-1224.	3.5	8
63	Diverse Power Iteration Embeddings and Its Applications. , 2014, , .		7
64	Using Virtual Digital Breast Tomosynthesis for De-Noising of Low-Dose Projection Images. , 2019, , .		7
65	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
66	Multi-Cue Semi-Supervised Color Constancy With Limited Training Samples. IEEE Transactions on Image Processing, 2020, 29, 7875-7888.	9.8	7
67	Structure Correction for Robust Volume Segmentation in Presence of Tumors. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1151-1162.	6.3	7
68	Vehicle matching and recognition under large variations of pose and illumination. , 2009, , .		6
69	Haptics-equiped interactive PCI simulation for patient-specific surgery training and rehearsing. Science China Information Sciences, 2016, 59, 1.	4.3	6
70	Low-Shot Learning of Automatic Dental Plaque Segmentation Based on Local-to-Global Feature Fusion. , 2020, , .		6
71	Voxels on fire [computer animation]. , 0, , .		5
72	Isotropic Mesh Simplification by Evolving the Geodesic Delaunay Triangulation. , 2011, , .		5

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73	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
74	A Rapid, Endâ€toâ€end, Generative Model for Gaseous Phenomena from Limited Views. Computer Graphics Forum, 2021, 40, 242-257.	3.0	5
75	PDE-Based Medial Axis Extraction and Shape Manipulation of Arbitrary Meshes. Journal of Systems Science and Complexity, 2008, 21, 609-625.	2.8	4
76	Image deconvolution using multigrid natural image prior and its applications. , 2010, , .		4
77	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
78	Multi-scale, multi-level, heterogeneous features extraction and classification of volumetric medical images. , 2013, , .		4
79	Automatic skinning and weight retargeting of articulated characters using extended position-based dynamics. Visual Computer, 2018, 34, 1285-1297.	3.5	4
80	Multitask learning on monocular water images: Surface reconstruction and image synthesis. Computer Animation and Virtual Worlds, 2019, 30, e1896.	1.2	4
81	Realâ€time suturing simulation for virtual reality medical training. Computer Animation and Virtual Worlds, 2020, 31, e1940.	1.2	4
82	Simultaneous structure and geometry detail completion based on interactive user sketches. Science China Information Sciences, 2012, 55, 1123-1137.	4.3	3
83	Multi-scale local features based on anisotropic heat diffusion and global eigen-structure. Science China Information Sciences, 2013, 56, 1-10.	4.3	3
84	Robust Surface Consolidation of Scanned Thick Point Clouds. , 2013, , .		3
85	Inverse Modelling of Incompressible Gas Flow in Subspace. Computer Graphics Forum, 2017, 36, 100-111.	3.0	3
86	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
87	Procedural modeling of rivers from single image toward natural scene production. Visual Computer, 2019, 35, 223-237.	3.5	3
88	Compressing animated meshes with fine details using local spectral analysis and deformation transfer. Visual Computer, 2020, 36, 1029-1042.	3.5	3
89	A Novel Plastic Phaseâ€Field Method for Ductile Fracture with GPU Optimization. Computer Graphics Forum, 2020, 39, 105-117.	3.0	3
90	Accelerating Liquid Simulation With an Improved Dataâ€Driven Method. Computer Graphics Forum, 2020, 39, 180-191.	3.0	3

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91	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
92	Fourâ€Dimensional Geometry Lens: A Novel Volumetric Magnification Approach. Computer Graphics Forum, 2013, 32, 122-133.	3.0	2
93	Noise-Resistant Unsupervised Feature Selection via Multi-perspective Correlations. , 2014, , .		2
94	Detail-Preserving 3D Shape Modeling from Raw Volumetric Dataset via Hessian-Constrained Local Implicit Surfaces Optimization. , 2016, , .		2
95	Novel fluid detail enhancement based on multiâ€layer depth regression analysis and FLIP fluid simulation. Computer Animation and Virtual Worlds, 2017, 28, e1741.	1.2	2
96	High-fidelity Compression of Dynamic Meshes with Fine Details using Piece-wise Manifold Harmonic Bases. , 2018, , .		2
97	Hybrid features for skeletonâ€based action recognition based on network fusion. Computer Animation and Virtual Worlds, 2020, 31, e1952.	1.2	2
98	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
99	Real-time VR Simulation of Laparoscopic Cholecystectomy based on Parallel Position-based Dynamics in GPU. , 2020, , .		2
100	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
101	Meta Transfer Learning for Adaptive Vehicle Tracking in UAV Videos. Lecture Notes in Computer Science, 2020, , 764-777.	1.3	2
102	Unsupervised Co-segmentation of Complex Image Set via Bi-harmonic Distance Governed Multi-level Deformable Graph Clustering. , 2013, , .		1
103	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
104	Interactive Dissection of Digital Organs Based on Metaballs. , 2016, , .		1
105	Novel metaballs-driven approach with dynamic constraints for character articulation. Science China Information Sciences, 2018, 61, 1.	4.3	1
106	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
107	Few-Shot Learning for Monocular Depth Estimation Based on Local Object Relationship. , 2019, , .		1
108	Spatiotemporal consistency-based adaptive hand-held video stabilization. Science China Information Sciences, 2020, 63, 1.	4.3	1

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109	Dynamic particle partitioning SPH model for high-speed fluids simulation. Graphical Models, 2020, 109, 101061.	2.4	1
110	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
111	Self-adjustable hyper-graphs for video pose estimation based on spatial-temporal subspace construction. Science China Information Sciences, 2022, 65, 1.	4.3	1
112	A Hybrid Method for Powdered Materials Modeling. , 2019, , .		1
113	Illumination learning from a single image with unknown shape and texture. , 2010, , .		0
114	Active lighting learning for 3D model based vehicle tracking. , 2010, , .		0
115	An Improved Ratio-Based (IRB) Batch Effects Removal Algorithm for Cancer Data in a Co-Analysis Framework. , 2014, , .		0
116	Dataâ€driven retrieval of spray details with random forestâ€based distance. Computer Animation and Virtual Worlds, 2019, 30, e1901.	1.2	0
117	Vehicle matching and recognition under large variations of pose and illumination. , 2009, , .		0