

Qionghai Dai

List of Publications by Year in descending order

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575
papers

17,704
citations

13068

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592
all docs

592
docs citations

592
times ranked

11394
citing authors

#	ARTICLE	IF	CITATIONS
1	3-D Object Retrieval and Recognition With Hypergraph Analysis. IEEE Transactions on Image Processing, 2012, 21, 4290-4303.	6.0	529
2	Deep Direct Reinforcement Learning for Financial Signal Representation and Trading. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 653-664.	7.2	442
3	Light Field Image Processing: An Overview. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 926-954.	7.3	385
4	Efficient Parallel Framework for HEVC Motion Estimation on Many-Core Processors. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 2077-2089.	5.6	359
5	A Highly Parallel Framework for HEVC Coding Unit Partitioning Tree Decision on Many-core Processors. IEEE Signal Processing Letters, 2014, 21, 573-576.	2.1	333
6	WBSMDA: Within and Between Score for MiRNA-Disease Association prediction. Scientific Reports, 2016, 6, 21106.	1.6	314
7	Large-scale neuromorphic optoelectronic computing with a reconfigurable diffractive processing unit. Nature Photonics, 2021, 15, 367-373.	15.6	266
8	A Hierarchical Fused Fuzzy Deep Neural Network for Data Classification. IEEE Transactions on Fuzzy Systems, 2017, 25, 1006-1012.	6.5	265
9	STAT: Spatial-Temporal Attention Mechanism for Video Captioning. IEEE Transactions on Multimedia, 2020, 22, 229-241.	5.2	244
10	Camera Constraint-Free View-Based 3-D Object Retrieval. IEEE Transactions on Image Processing, 2012, 21, 2269-2281.	6.0	211
11	DeepHuman: 3D Human Reconstruction From a Single Image. , 2019, , .		210
12	Rank Minimization for Snapshot Compressive Imaging. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2990-3006.	9.7	207
13	Evaluation and development of deep neural networks for image super-resolution in optical microscopy. Nature Methods, 2021, 18, 194-202.	9.0	203
14	Spatial-spectral encoded compressive hyperspectral imaging. ACM Transactions on Graphics, 2014, 33, 1-11.	4.9	200
15	Supervised Hash Coding With Deep Neural Network for Environment Perception of Intelligent Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 284-295.	4.7	198
16	Constructing lncRNA functional similarity network based on lncRNA-disease associations and disease semantic similarity. Scientific Reports, 2015, 5, 11338.	1.6	195
17	Fourier-space Diffractive Deep Neural Network. Physical Review Letters, 2019, 123, 023901.	2.9	182
18	A novel approach to fuzzy rough sets based on a fuzzy covering $\hat{\sim}$. Information Sciences, 2007, 177, 2308-2326.	4.0	178

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19	Computational Snapshot Multispectral Cameras: Toward dynamic capture of the spectral world. IEEE Signal Processing Magazine, 2016, 33, 95-108.	4.6	178
20	Less is More: Efficient 3-D Object Retrieval With Query View Selection. IEEE Transactions on Multimedia, 2011, 13, 1007-1018.	5.2	176
21	3-D Object Retrieval With Hausdorff Distance Learning. IEEE Transactions on Industrial Electronics, 2014, 61, 2088-2098.	5.2	175
22	A Fast Uyghur Text Detector for Complex Background Images. IEEE Transactions on Multimedia, 2018, 20, 3389-3398.	5.2	164
23	DoubleFusion: Real-Time Capture of Human Performances with Inner Body Shapes from a Single Depth Sensor. , 2018, , .		160
24	RBMMMDA: predicting multiple types of disease-microRNA associations. Scientific Reports, 2015, 5, 13877.	1.6	154
25	Cross-Modality Bridging and Knowledge Transferring for Image Understanding. IEEE Transactions on Multimedia, 2019, 21, 2675-2685.	5.2	145
26	Scalable analysis of cell-type composition from single-cell transcriptomics using deep recurrent learning. Nature Methods, 2019, 16, 311-314.	9.0	142
27	Light Field Reconstruction Using Deep Convolutional Network on EPI. , 2017, , .		141
28	A Prism-Mask System for Multispectral Video Acquisition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 2423-2435.	9.7	139
29	Stretchable and Temperature-sensitive Polymer Optical Fibers for Wearable Health Monitoring. Advanced Functional Materials, 2019, 29, 1902898.	7.8	139
30	Fourier Ptychographic reconstruction using Wirtinger flow optimization. Optics Express, 2015, 23, 4856.	1.7	137
31	Effective Uyghur Language Text Detection in Complex Background Images for Traffic Prompt Identification. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 220-229.	4.7	137
32	Video-rate imaging of biological dynamics at centimetre scale and micrometre resolution. Nature Photonics, 2019, 13, 809-816.	15.6	134
33	Multispectral imaging using a single bucket detector. Scientific Reports, 2016, 6, 24752.	1.6	133
34	Residual Highway Convolutional Neural Networks for in-loop Filtering in HEVC. IEEE Transactions on Image Processing, 2018, 27, 3827-3841.	6.0	133
35	Experimental comparison of single-pixel imaging algorithms. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 78.	0.8	129
36	A Fine-Grained Image Categorization System by Cellet-Encoded Spatial Pyramid Modeling. IEEE Transactions on Industrial Electronics, 2015, 62, 564-571.	5.2	125

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37	3D model comparison using spatial structure circular descriptor. Pattern Recognition, 2010, 43, 1142-1151.	5.1	123
38	Cooperative Deep Reinforcement Learning for Large-Scale Traffic Grid Signal Control. IEEE Transactions on Cybernetics, 2020, 50, 2687-2700.	6.2	123
39	Dual-coded compressive hyperspectral imaging. Optics Letters, 2014, 39, 2044.	1.7	118
40	Iterative tomography with digital adaptive optics permits hour-long intravital observation of 3D subcellular dynamics at millisecond scale. Cell, 2021, 184, 3318-3332.e17.	13.5	115
41	Parallel deblocking filter for HEVC on many-core processor. Electronics Letters, 2014, 50, 367-368.	0.5	114
42	Function4D: Real-time Human Volumetric Capture from Very Sparse Consumer RGBD Sensors. , 2021, , .		110
43	Discriminative Clustering and Feature Selection for Brain MRI Segmentation. IEEE Signal Processing Letters, 2015, 22, 573-577.	2.1	108
44	BodyFusion: Real-Time Capture of Human Motion and Surface Geometry Using a Single Depth Camera. , 2017, , .		108
45	Full-Reference Quality Assessment of Stereoscopic Images by Learning Binocular Receptive Field Properties. IEEE Transactions on Image Processing, 2015, 24, 2971-2983.	6.0	107
46	Similarity-based online feature selection in content-based image retrieval. IEEE Transactions on Image Processing, 2006, 15, 702-712.	6.0	104
47	Low-Rank Structure Learning via Nonconvex Heuristic Recovery. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 383-396.	7.2	103
48	Camera array based light field microscopy. Biomedical Optics Express, 2015, 6, 3179.	1.5	98
49	Covariance discriminative learning: A natural and efficient approach to image set classification. , 2012, , .		97
50	3D model retrieval using weighted bipartite graph matching. Signal Processing: Image Communication, 2011, 26, 39-47.	1.8	96
51	Reweighted Low-Rank Matrix Recovery and its Application in Image Restoration. IEEE Transactions on Cybernetics, 2014, 44, 2418-2430.	6.2	96
52	Stretchable and Highly Sensitive Optical Strain Sensors for Human-Activity Monitoring and Healthcare. ACS Applied Materials & Interfaces, 2019, 11, 33589-33598.	4.0	96
53	In situ optical backpropagation training of diffractive optical neural networks. Photonics Research, 2020, 8, 940.	3.4	95
54	Manifold Distance and its Application to Face Recognition With Image Sets. IEEE Transactions on Image Processing, 2012, 21, 4466-4479.	6.0	92

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55	Actively Learning Human Gaze Shifting Paths for Semantics-Aware Photo Cropping. IEEE Transactions on Image Processing, 2014, 23, 2235-2245.	6.0	92
56	Hyperspectral Image Classification Through Bilayer Graph-Based Learning. IEEE Transactions on Image Processing, 2014, 23, 2769-2778.	6.0	91
57	Markerless Motion Capture of Multiple Characters Using Multiview Image Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2720-2735.	9.7	90
58	Super-resolution imaging of fluorescent dipoles via polarized structured illumination microscopy. Nature Communications, 2019, 10, 4694.	5.8	88
59	PaMIR: Parametric Model-Conditioned Implicit Representation for Image-Based Human Reconstruction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 3170-3184.	9.7	88
60	A Concatenational Graph Evolution Aging Model. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 2083-2096.	9.7	87
61	Light Field Reconstruction Using Convolutional Network on EPI and Extended Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1681-1694.	9.7	87
62	Plug-and-Play Algorithms for Large-Scale Snapshot Compressive Imaging. , 2020, , .		87
63	A Point-Cloud-Based Multiview Stereo Algorithm for Free-Viewpoint Video. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 407-418.	2.9	86
64	Content adaptive illumination for Fourier ptychography. Optics Letters, 2014, 39, 6648.	1.7	86
65	Learning Sheared EPI Structure for Light Field Reconstruction. IEEE Transactions on Image Processing, 2019, 28, 3261-3273.	6.0	86
66	Intelligent Microfluidics: The Convergence of Machine Learning and Microfluidics in Materials Science and Biomedicine. Matter, 2020, 3, 1893-1922.	5.0	85
67	Efficient parallel HEVC intra-€prediction on many-€core processor. Electronics Letters, 2014, 50, 805-806.	0.5	84
68	Broadband perovskite quantum dot spectrometer beyond human visual resolution. Light: Science and Applications, 2020, 9, 73.	7.7	83
69	Robust Non-rigid Motion Tracking and Surface Reconstruction Using L0 Regularization. , 2015, , .		78
70	View-Based 3D Object Retrieval: Challenges and Approaches. IEEE MultiMedia, 2014, 21, 52-57.	1.5	77
71	Wearable and Skin-€Mountable Fiber-€Optic Strain Sensors Interrogated by a Free-€Running, Dual-€Comb Fiber Laser. Advanced Optical Materials, 2019, 7, 1900086.	3.6	76
72	Real-Time Geometry, Albedo, and Motion Reconstruction Using a Single RGB-D Camera. ACM Transactions on Graphics, 2017, 36, 1.	4.9	73

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73	Graph Laplace for Occluded Face Completion and Recognition. IEEE Transactions on Image Processing, 2011, 20, 2329-2338.	6.0	72
74	Intrinsic video and applications. ACM Transactions on Graphics, 2014, 33, 1-11.	4.9	72
75	Light-Field Depth Estimation via Epipolar Plane Image Analysis and Locally Linear Embedding. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 739-747.	5.6	71
76	Toward a Blind Deep Quality Evaluator for Stereoscopic Images Based on Monocular and Binocular Interactions. IEEE Transactions on Image Processing, 2016, 25, 2059-2074.	6.0	70
77	Reinforcing neuron extraction and spike inference in calcium imaging using deep self-supervised denoising. Nature Methods, 2021, 18, 1395-1400.	9.0	70
78	Video-based hand manipulation capture through composite motion control. ACM Transactions on Graphics, 2013, 32, 1-14.	4.9	66
79	Light field from micro-baseline image pair. , 2015, , .		65
80	Real-Time Geometry, Albedo, and Motion Reconstruction Using a Single RGB-D Camera. ACM Transactions on Graphics, 2017, 36, 1-13.	4.9	64
81	Semi-Automatic 2D-to-3D Conversion Using Disparity Propagation. IEEE Transactions on Broadcasting, 2011, 57, 491-499.	2.5	63
82	CCR: Clustering and Collaborative Representation for Fast Single Image Super-Resolution. IEEE Transactions on Multimedia, 2016, 18, 405-417.	5.2	63
83	Adaptive Residual Networks for High-Quality Image Restoration. IEEE Transactions on Image Processing, 2018, 27, 3150-3163.	6.0	63
84	Fourier Ptychographic reconstruction using Poisson maximum likelihood and truncated Wirtinger gradient. Scientific Reports, 2016, 6, 27384.	1.6	61
85	On the Recording Reference Contribution to EEG Correlation, Phase Synchrony, and Coherence. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 1294-1304.	5.5	60
86	Decomposing Global Light Transport Using Time of Flight Imaging. International Journal of Computer Vision, 2014, 107, 123-138.	10.9	60
87	A PID Controller Approach for Stochastic Optimization of Deep Networks. , 2018, , .		60
88	Soft and Stretchable Polymeric Optical Waveguide-Based Sensors for Wearable and Biomedical Applications. Sensors, 2019, 19, 3771.	2.1	60
89	Performance Capture of Interacting Characters with Handheld Kinects. Lecture Notes in Computer Science, 2012, , 828-841.	1.0	60
90	SimulCap : Single-View Human Performance Capture With Cloth Simulation. , 2019, , .		58

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91	From Brain Science to Artificial Intelligence. Engineering, 2020, 6, 248-252.	3.2	58
92	Causality Analysis of Neural Connectivity: Critical Examination of Existing Methods and Advances of New Methods. IEEE Transactions on Neural Networks, 2011, 22, 829-844.	4.8	57
93	Fusing Multiview and Photometric Stereo for 3D Reconstruction under Uncalibrated Illumination. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 1082-1095.	2.9	56
94	High-dimensional super-resolution imaging reveals heterogeneity and dynamics of subcellular lipid membranes. Nature Communications, 2020, 11, 5890.	5.8	56
95	Efficient single pixel imaging in Fourier space. Journal of Optics (United Kingdom), 2016, 18, 085704.	1.0	55
96	Image and Video Denoising Using Adaptive Dual-Tree Discrete Wavelet Packets. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 642-655.	5.6	54
97	Joint Bit Allocation and Rate Control for Coding Multi-View Video Plus Depth Based 3D Video. IEEE Transactions on Multimedia, 2013, 15, 1843-1854.	5.2	54
98	Absolute Depth Estimation From a Single Defocused Image. IEEE Transactions on Image Processing, 2013, 22, 4545-4550.	6.0	53
99	Residual D ² NN: training diffractive deep neural networks via learnable light shortcuts. Optics Letters, 2020, 45, 2688.	1.7	53
100	Self-learning based Fourier ptychographic microscopy. Optics Express, 2015, 23, 18471.	1.7	52
101	Continuous depth estimation for multi-view stereo. , 2009, , .		51
102	Video-based characters. ACM Transactions on Graphics, 2011, 30, 1-10.	4.9	51
103	High resolution multispectral video capture with a hybrid camera system. , 2011, , .		50
104	Unsupervised content-preserving transformation for optical microscopy. Light: Science and Applications, 2021, 10, 44.	7.7	50
105	Image Coding Using Dual-Tree Discrete Wavelet Transform. IEEE Transactions on Image Processing, 2008, 17, 1555-1569.	6.0	48
106	Ways to sparse representation: An overview. Science in China Series F: Information Sciences, 2009, 52, 695-703.	1.1	48
107	The Light Field Attachment: Turning a DSLR into a Light Field Camera Using a Low Budget Camera Ring. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 2357-2364.	2.9	47
108	DECODE: Deep Confidence Network for Robust Image Classification. IEEE Transactions on Image Processing, 2019, 28, 3752-3765.	6.0	47

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109	HybridFusion: Real-Time Performance Capture Using a Single Depth Sensor and Sparse IMUs. Lecture Notes in Computer Science, 2018, , 389-406.	1.0	47
110	Video-based characters. , 2011, , .		46
111	Acquisition of High Spatial and Spectral Resolution Video with a Hybrid Camera System. International Journal of Computer Vision, 2014, 110, 141-155.	10.9	46
112	Phase-space deconvolution for light field microscopy. Optics Express, 2019, 27, 18131.	1.7	44
113	Markerless Shape and Motion Capture From Multiview Video Sequences. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 320-334.	5.6	43
114	Snapshot Hyperspectral Volumetric Microscopy. Scientific Reports, 2016, 6, 24624.	1.6	43
115	Learning Blind Quality Evaluator for Stereoscopic Images Using Joint Sparse Representation. IEEE Transactions on Multimedia, 2016, 18, 2104-2114.	5.2	42
116	High Speed Computational Ghost Imaging via Spatial Sweeping. Scientific Reports, 2017, 7, 45325.	1.6	42
117	Efficient single-pixel multispectral imaging via non-mechanical spatio-spectral modulation. Scientific Reports, 2017, 7, 41435.	1.6	42
118	PANDA: A Gigapixel-Level Human-Centric Video Dataset. , 2020, , .		42
119	View-based 3D model retrieval with probabilistic graph model. Neurocomputing, 2010, 73, 1900-1905.	3.5	41
120	Noisy Depth Maps Fusion for Multiview Stereo Via Matrix Completion. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 566-582.	7.3	39
121	FlyCap: Markerless Motion Capture Using Multiple Autonomous Flying Cameras. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 2284-2297.	2.9	39
122	Fast widefield imaging of neuronal structure and function with optical sectioning in vivo. Science Advances, 2020, 6, eaaz3870.	4.7	39
123	Computational optical sectioning with an incoherent multiscale scattering model for light-field microscopy. Nature Communications, 2021, 12, 6391.	5.8	39
124	Probabilistic Skimlets Fusion for Summarizing Multiple Consumer Landmark Videos. IEEE Transactions on Multimedia, 2015, 17, 40-49.	5.2	38
125	Sparse Coding-Inspired Optimal Trading System for HFT Industry. IEEE Transactions on Industrial Informatics, 2015, 11, 467-475.	7.2	38
126	Deep learning in photoacoustic imaging: a review. Journal of Biomedical Optics, 2021, 26, .	1.4	38

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127	Prior-information-free single-shot scattering imaging beyond the memory effect. Optics Letters, 2019, 44, 1423.	1.7	38
128	Image-based Material Weathering. Computer Graphics Forum, 2008, 27, 617-626.	1.8	37
129	PoNA: Pose-Guided Non-Local Attention for Human Pose Transfer. IEEE Transactions on Image Processing, 2020, 29, 9584-9599.	6.0	37
130	Single-pixel phase and fluorescence microscope. Optics Express, 2018, 26, 32451.	1.7	37
131	A Novel Method for Semi-automatic 2D to 3D Video Conversion. , 2008, , .		36
132	Content-adaptive high-resolution hyperspectral video acquisition with a hybrid camera system. Optics Letters, 2014, 39, 937.	1.7	36
133	Hyperspectral Computational Ghost Imaging via Temporal Multiplexing. IEEE Photonics Technology Letters, 2016, 28, 288-291.	1.3	36
134	A Novel VLSI Architecture for Multidimensional Discrete Wavelet Transform. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 1105-1110.	5.6	35
135	Integrative spatial analysis of cell morphologies and transcriptional states with MUSE. Nature Biotechnology, 2022, 40, 1200-1209.	9.4	35
136	All-optical graph representation learning using integrated diffractive photonic computing units. Science Advances, 2022, 8, .	4.7	35
137	Weakly Supervised Visual Dictionary Learning by Harnessing Image Attributes. IEEE Transactions on Image Processing, 2014, 23, 5400-5411.	6.0	34
138	A regional image fusion based on similarity characteristics. Signal Processing, 2012, 92, 1268-1280.	2.1	33
139	Fast and sensitive diffuse correlation spectroscopy with highly parallelized single photon detection. APL Photonics, 2021, 6, .	3.0	33
140	Plug-and-Play Algorithms for Video Snapshot Compressive Imaging. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 7093-7111.	9.7	33
141	Image Categorization by Learning a Propagated Graphlet Path. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 674-685.	7.2	32
142	Distance measurement based on light field geometry and ray tracing. Optics Express, 2017, 25, 59.	1.7	32
143	Analog Optical Computing for Artificial Intelligence. Engineering, 2022, 10, 133-145.	3.2	32
144	Weighted Subspace Distance and Its Applications to Object Recognition and Retrieval With Image Sets. IEEE Signal Processing Letters, 2009, 16, 227-230.	2.1	31

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145	Fourier Analysis on Transient Imaging with a Multifrequency Time-of-Flight Camera. , 2014, , .		31
146	Fourier ptychographic microscopy using a generalized Anscombe transform approximation of the mixed Poisson-Gaussian likelihood. Optics Express, 2017, 25, 168.	1.7	31
147	DeepMultiCap: Performance Capture of Multiple Characters Using Sparse Multiview Cameras. , 2021, , .		31
148	Capturing Relightable Human Performances under General Uncontrolled Illumination. Computer Graphics Forum, 2013, 32, 275-284.	1.8	30
149	A Data-Driven Approach for Facial Expression Retargeting in Video. IEEE Transactions on Multimedia, 2014, 16, 299-310.	5.2	30
150	Motion-corrected Fourier ptychography. Biomedical Optics Express, 2016, 7, 4543.	1.5	30
151	Invited Article: Mask-modulated lensless imaging with multi-angle illuminations. APL Photonics, 2018, 3, 060803.	3.0	30
152	Multi-plane, wide-field fluorescent microscopy for biodynamic imaging in vivo. Biomedical Optics Express, 2019, 10, 6625.	1.5	30
153	Patch-primitive driven compressive ghost imaging. Optics Express, 2015, 23, 11092.	1.7	29
154	Convolutional Sparse Coding for RGB+NIR Imaging. IEEE Transactions on Image Processing, 2018, 27, 1611-1625.	6.0	29
155	DoubleFusion: Real-Time Capture of Human Performances with Inner Body Shapes from a Single Depth Sensor. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 2523-2539.	9.7	29
156	Multilabel Neighborhood Propagation for Region-Based Image Retrieval. IEEE Transactions on Multimedia, 2008, 10, 1592-1604.	5.2	28
157	Video-Based Outdoor Human Reconstruction. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 760-770.	5.6	28
158	Steady-Motion-Based Dopplerlet Transform: Application to the Estimation of Range and Speed of a Moving Sound Source. IEEE Journal of Oceanic Engineering, 2004, 29, 887-905.	2.1	27
159	Frequency Analysis of Transient Light Transport with Applications in Bare Sensor Imaging. Lecture Notes in Computer Science, 2012, , 542-555.	1.0	27
160	3D object retrieval with bag-of-region-words. , 2010, , .		26
161	Free Viewpoint Video Coding With Rate-Distortion Analysis. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 875-889.	5.6	26
162	Visual Words Assignment Via Information-Theoretic Manifold Embedding. IEEE Transactions on Cybernetics, 2014, 44, 1924-1937.	6.2	26

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163	Depth Map Coding for View Synthesis Based on Distortion Analyses. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2014, 4, 106-117.	2.7	26
164	Multiscale gigapixel video: A cross resolution image matching and warping approach. , 2017, , .		26
165	Plenoptic Image Coding Using Macropixel-Based Intra Prediction. IEEE Transactions on Image Processing, 2018, 27, 3954-3968.	6.0	26
166	Heterogeneous Hypergraph Variational Autoencoder for Link Prediction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	26
167	Parametric TFR via windowed exponential frequency modulated atoms. IEEE Signal Processing Letters, 2001, 8, 140-142.	2.1	25
168	Converting 2D Video to 3D: An Efficient Path to a 3D Experience. IEEE MultiMedia, 2011, 18, 12-17.	1.5	25
169	Free-Viewpoint Video of Human Actors Using Multiple Handheld Kinects. IEEE Transactions on Cybernetics, 2013, 43, 1370-1382.	6.2	25
170	Nonlinear optimization approach for Fourier ptychographic microscopy. Optics Express, 2015, 23, 33822.	1.7	25
171	Collaborative Representation Cascade for Single-Image Super-Resolution. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 845-860.	5.9	25
172	Artificial intelligence accelerated by light. Nature, 2021, 589, 25-26.	18.7	25
173	Dynamic non-line-of-sight imaging system based on the optimization of point spread functions. Optics Express, 2021, 29, 32349.	1.7	25
174	Multiframe denoising of high-speed optical coherence tomography data using interframe and intraframe priors. Journal of Biomedical Optics, 2015, 20, 036006.	1.4	24
175	Stretchable and upconversion-luminescent polymeric optical sensor for wearable multifunctional sensing. Optics Letters, 2019, 44, 5747.	1.7	24
176	Transparent Object Reconstruction via Coded Transport of Intensity. , 2014, , .		23
177	Fourier ptychographic microscopy using wavelength multiplexing. Journal of Biomedical Optics, 2017, 22, 066006.	1.4	23
178	Exponential decay sine wave learning rate for fast deep neural network training. , 2017, , .		23
179	Toward human intervention-free clinical diagnosis of intracranial aneurysm via deep neural network. Patterns, 2021, 2, 100197.	3.1	23
180	Robust blind motion deblurring using near-infrared flash image. Journal of Visual Communication and Image Representation, 2013, 24, 1394-1413.	1.7	22

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181	Structuring Lecture Videos by Automatic Projection Screen Localization and Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 1233-1246.	9.7	22
182	Deep and Structured Robust Information Theoretic Learning for Image Analysis. IEEE Transactions on Image Processing, 2016, 25, 1-1.	6.0	22
183	Learning Sparse Representation for No-Reference Quality Assessment of Multiply Distorted Stereoscopic Images. IEEE Transactions on Multimedia, 2017, 19, 1821-1836.	5.2	22
184	Single-shot thermal ghost imaging using wavelength-division multiplexing. Applied Physics Letters, 2018, 112, .	1.5	22
185	Single-shot lensless imaging via simultaneous multi-angle LED illumination. Optics Express, 2018, 26, 21418.	1.7	22
186	Learning Deep Landmarks for Imbalanced Classification. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 2691-2704.	7.2	22
187	Artificial intelligence for stepwise diagnosis and monitoring of COVID-19. European Radiology, 2022, 32, 2235-2245.	2.3	22
188	Robust subspace segmentation via nonconvex low rank representation. Information Sciences, 2016, 340-341, 144-158.	4.0	21
189	2D-to-3D Conversion Based on Motion and Color Mergence. , 2008, , .		20
190	Coded aperture pair for quantitative phase imaging. Optics Letters, 2014, 39, 5776.	1.7	20
191	Toward Simultaneous Visual Comfort and Depth Sensation Optimization for Stereoscopic 3-D Experience. IEEE Transactions on Cybernetics, 2017, 47, 4521-4533.	6.2	20
192	Non-invasive imaging through strongly scattering media based on speckle pattern estimation and deconvolution. Scientific Reports, 2018, 8, 9088.	1.6	20
193	Corrections to "STAT: Spatial-Temporal Attention Mechanism for Video Captioning". IEEE Transactions on Multimedia, 2020, 22, 830-830.	5.2	20
194	Fast Macroblock Mode Selection Algorithm for Multiview Video Coding. Eurasip Journal on Image and Video Processing, 2008, 2008, 1-14.	1.7	19
195	Resolving transient time profile in ToF imaging via log-sum sparse regularization. Optics Letters, 2015, 40, 918.	1.7	19
196	Outdoor Markerless Motion Capture with Sparse Handheld Video Cameras. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 1856-1866.	2.9	19
197	Color-Guided Depth Image Recovery With Adaptive Data Fidelity and Transferred Graph Laplacian Regularization. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 320-333.	5.6	19
198	A modular hierarchical array camera. Light: Science and Applications, 2021, 10, 37.	7.7	19

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199	Single-pixel ptychography. <i>Optics Letters</i> , 2021, 46, 1624.	1.7	19
200	Exploring aligned complementary image pair for blind motion deblurring. , 2011, , .		18
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