Qionghai Dai

List of Publications by Year in Descending Order

455 papers	11,332 citations	57 h-index	90 g-index
592 ext. papers	14,487 ext. citations	5.9 avg, IF	6.92 L-index

#	Paper	IF	Citations
455	Artificial intelligence for stepwise diagnosis and monitoring of COVID-19.. *European Radiology*, **2022**, 32, 2235	8	3
454	Review on data analysis methods for mesoscale neural imaging .. *Neurophotonics*, **2022**, 9, 041407	3.9	1
453	Surface Material Perception Through Multimodal Learning. *IEEE Journal on Selected Topics in Signal Processing*, **2022**, 1-1	7.5	0
452	SurfaceNet+: An End-to-end 3D Neural Network for Very Sparse Multi-View Stereopsis. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 4078-4093	13.3	5
451	Model Study of Transient Imaging With Multi-Frequency Time-of-Flight Sensors. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 3523-3539	13.3	1
450	Function4D: Real-time Human Volumetric Capture from Very Sparse Consumer RGBD Sensors **2021**,		15
449	Computational optical sectioning with an incoherent multiscale scattering model for light-field microscopy. *Nature Communications*, **2021**, 12, 6391	17.4	3
448	Mirror-enhanced scanning light-field microscopy for long-term high-speed 3D imaging with isotropic resolution. *Light: Science and Applications*, **2021**, 10, 227	16.7	1
447	High-axial-resolution single-molecule localization under dense excitation with a multi-channel deep U-Net. *Optics Letters*, **2021**, 46, 5477-5480	3	1
446	Gated Value Network for Multilabel Classification. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 4748-4754	10.3	
445	Human-in-the-Loop Low-Shot Learning. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 3287-3292	10.3	2
444	Real-time brain-wide multi-planar microscopy for simultaneous cortex and hippocampus imaging at the cellular resolution in mice. *Biomedical Optics Express*, **2021**, 12, 1858-1868	3.5	0
443	Single-pixel ptychography. *Optics Letters*, **2021**, 46, 1624-1627	3	6
442	Deep learning in photoacoustic imaging: a review. *Journal of Biomedical Optics*, **2021**, 26,	3.5	14
441	F-2-fluoro-2-deoxy-D-glucose-positron emission tomography metabolic pattern assessment in the brain of betel quid dependent individuals. *Addiction Biology*, **2021**, 26, e13043	4.6	0
440	Large-scale neuromorphic optoelectronic computing with a reconfigurable diffractive processing unit. *Nature Photonics*, **2021**, 15, 367-373	33.9	65
439	Iterative tomography with digital adaptive optics permits hour-long intravital observation of 3D subcellular dynamics at millisecond scale. *Cell*, **2021**, 184, 3318-3332.e17	56.2	24

438	3D Structured Illumination Microscopy via Channel Attention Generative Adversarial Network. *IEEE Journal of Selected Topics in Quantum Electronics*, **2021**, 27, 1-11	3.8	1
437	Sinusoidal Sampling Enhanced Compressive Camera for High Speed Imaging. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 1380-1393	13.3	7
436	PaMIR: Parametric Model-Conditioned Implicit Representation for Image-based Human Reconstruction. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	21
435	Evaluation and development of deep neural networks for image super-resolution in optical microscopy. *Nature Methods*, **2021**, 18, 194-202	21.6	49
434	Heterogeneous Hypergraph Variational Autoencoder for Link Prediction. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	8
433	A modular hierarchical array camera. *Light: Science and Applications*, **2021**, 10, 37	16.7	4
432	Fast and sensitive diffuse correlation spectroscopy with highly parallelized single photon detection. *APL Photonics*, **2021**, 6, 026106	5.2	12
431	Toward human intervention-free clinical diagnosis of intracranial aneurysm via deep neural network. *Patterns*, **2021**, 2, 100197	5.1	5
430	Unsupervised content-preserving transformation for optical microscopy. *Light: Science and Applications*, **2021**, 10, 44	16.7	6
429	DiLFM: an artifact-suppressed and noise-robust light-field microscopy through dictionary learning. *Light: Science and Applications*, **2021**, 10, 152	16.7	2
428	Reinforcing neuron extraction and spike inference in calcium imaging using deep self-supervised denoising. *Nature Methods*, **2021**, 18, 1395-1400	21.6	7
427	Dynamic non-line-of-sight imaging system based on the optimization of point spread functions. *Optics Express*, **2021**, 29, 32349-32364	3.3	2
426	Plug-and-Play Algorithms for Video Snapshot Compressive Imaging. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	10
425	A polymer index-matched to water enables diverse applications in fluorescence microscopy. *Lab on A Chip*, **2021**, 21, 1549-1562	7.2	4
424	DeepMultiCap: Performance Capture of Multiple Characters Using Sparse Multiview Cameras **2021**,		7
423	A novel cytogenetic method to image chromatin interactions at subkilobase resolution: Tn5 transposase-based fluorescence in situ hybridization. *Journal of Genetics and Genomics*, **2020**, 47, 727-735	4	2
422	Fast widefield imaging of neuronal structure and function with optical sectioning in vivo. *Science Advances*, **2020**, 6, eaaz3870	14.3	13
421	Augmenting vascular disease diagnosis by vasculature-aware unsupervised learning. *Nature Machine Intelligence*, **2020**, 2, 337-346	22.5	6

420	Multiscale-VR: Multiscale Gigapixel 3D Panoramic Videography for Virtual Reality **2020**,		4
419	. *IEEE Transactions on Multimedia*, **2020**, 22, 830-830	6.6	18
418	From Brain Science to Artificial Intelligence. *Engineering*, **2020**, 6, 248-252	9.7	23
417	Broadband perovskite quantum dot spectrometer beyond human visual resolution. *Light: Science and Applications*, **2020**, 9, 73	16.7	31
416	Improving axial resolution of Bessel beam light-sheet fluorescence microscopy by photobleaching imprinting. *Optics Express*, **2020**, 28, 9464-9476	3.3	5
415	Conformal convolutional neural network (CCNN) for single-shot sensorless wavefront sensing. *Optics Express*, **2020**, 28, 19218-19228	3.3	3
414	Enhanced reconstruction of structured illumination microscopy on a polarized specimen. *Optics Express*, **2020**, 28, 25642-25654	3.3	3
413	Single-shot compressed ultrafast photography based on U-net network. *Optics Express*, **2020**, 28, 39299-39310	3.3	3
412	Lensless imaging of plant samples using the cross-polarized light. *Optics Express*, **2020**, 28, 31611-31623	3.3	1
411	Residual DNN: training diffractive deep neural networks via learnable light shortcuts. *Optics Letters*, **2020**, 45, 2688-2691	3	19
410	In situ optical backpropagation training of diffractive optical neural networks. *Photonics Research*, **2020**, 8, 940	6	33
409	High-speed, multi-modal, label-free imaging of pathological slices with a Bessel beam. *Biomedical Optics Express*, **2020**, 11, 2694-2704	3.5	2
408	In situ optical backpropagation training of diffractive optical neural networks: publisher's note. *Photonics Research*, **2020**, 8, 1323	6	1
407	Photobleaching Imprinting Enhanced Background Rejection in Line-Scanning Temporal Focusing Microscopy. *Frontiers in Chemistry*, **2020**, 8, 618131	5	
406	Advances in point spread function engineering for functional imaging of neural circuits in vivo. *Journal Physics D: Applied Physics*, **2020**, 53, 383001	3	4
405	. *IEEE Transactions on Circuits and Systems for Video Technology*, **2020**, 30, 320-333	6.4	12
404	Explaining the Genetic Causality for Complex Phenotype via Deep Association Kernel Learning. *Patterns*, **2020**, 1, 100057	5.1	3
403	High-dimensional super-resolution imaging reveals heterogeneity and dynamics of subcellular lipid membranes. *Nature Communications*, **2020**, 11, 5890	17.4	20

402	Intelligent Microfluidics: The Convergence of Machine Learning and Microfluidics in Materials Science and Biomedicine. *Matter*, **2020**, 3, 1893-1922	12.7	26
401	**2020**,		27
400	PANDA: A Gigapixel-Level Human-Centric Video Dataset **2020**,		15
399	Decoding the brain through research-the future of brain health. *BMJ, The*, **2020**, 371, m3735	5.9	1
398	PoNA: Pose-guided Non-local Attention for Human Pose Transfer. *IEEE Transactions on Image Processing*, **2020**, PP,	8.7	11
397	Weighted Convolutional Motion-Compensated Frame Rate Up-Conversion Using Deep Residual Network. *IEEE Transactions on Circuits and Systems for Video Technology*, **2020**, 30, 11-22	6.4	6
396	Cooperative Deep Reinforcement Learning for Large-Scale Traffic Grid Signal Control. *IEEE Transactions on Cybernetics*, **2020**, 50, 2687-2700	10.2	62
395	Learning Deep Landmarks for Imbalanced Classification. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 2691-2704	10.3	10
394	. *IEEE Transactions on Multimedia*, **2020**, 22, 229-241	6.6	124
393	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	13.3	9
392	Stretchable and Highly Sensitive Optical Strain Sensors for Human-Activity Monitoring and Healthcare. *ACS Applied Materials & Interfaces*, **2019**, 11, 33589-33598	9.5	42
391	3D Fourier Ptychographic Microscopy Based on the Beam Propagation Method and Time-Reversal Scheme. *IEEE Access*, **2019**, 7, 129402-129410	3.5	
390	Real-time Indoor Scene Reconstruction with RGBD and Inertial Input **2019**,		5
389	Soft and Stretchable Polymeric Optical Waveguide-Based Sensors for Wearable and Biomedical Applications. *Sensors*, **2019**, 19,	3.8	33
388	Recent Advances in Computational Photography. *Chinese Journal of Electronics*, **2019**, 28, 1-5	0.9	1
387	Learning Sheared EPI Structure for Light Field Reconstruction. *IEEE Transactions on Image Processing*, **2019**, 28, 3261-3273	8.7	43
386	Stretchable and Temperature-Sensitive Polymer Optical Fibers for Wearable Health Monitoring. *Advanced Functional Materials*, **2019**, 29, 1902898	15.6	72
385	Improved predicting algorithm of RNA pseudoknotted structure. *International Journal of Computational Science and Engineering*, **2019**, 19, 64	0.4	1

384	Light Field Image Compression Using Depth-based CNN in Intra Prediction **2019**,		3
383	Wearable and Skin-Mountable Fiber-Optic Strain Sensors Interrogated by a Free-Running, Dual-Comb Fiber Laser. *Advanced Optical Materials*, **2019**, 7, 1900086	8.1	29
382	Scalable analysis of cell-type composition from single-cell transcriptomics using deep recurrent learning. *Nature Methods*, **2019**, 16, 311-314	21.6	70
381	High Fidelity Single-Pixel Imaging. *IEEE Photonics Journal*, **2019**, 11, 1-9	1.8	1
380	. *IEEE Transactions on Multimedia*, **2019**, 21, 2675-2685	6.6	129
379	Light Field Reconstruction Using Convolutional Network on EPI and Extended Applications. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2019**, 41, 1681-1694	13.3	46
378	Video-rate imaging of biological dynamics at centimetre scale and micrometre resolution. *Nature Photonics*, **2019**, 13, 809-816	33.9	44
377	Fourier-space Diffractive Deep Neural Network. *Physical Review Letters*, **2019**, 123, 023901	7.4	75
376	3D Pose Detection of Closely Interactive Humans Using Multi-View Cameras. *Sensors*, **2019**, 19,	3.8	5
375	Super-resolution imaging of fluorescent dipoles via polarized structured illumination microscopy. *Nature Communications*, **2019**, 10, 4694	17.4	37
374	Multi-plane, wide-field fluorescent microscopy for biodynamic imaging. *Biomedical Optics Express*, **2019**, 10, 6625-6635	3.5	11
373	DeepLFM: Deep Learning-based 3D Reconstruction for Light Field Microscopy **2019**,		6
372	Point spread function for diffuser cameras based on wave propagation and projection model. *Optics Express*, **2019**, 27, 12748-12761	3.3	3
371	Phase-space deconvolution for light field microscopy. *Optics Express*, **2019**, 27, 18131-18145	3.3	16
370	Overcoming tissue scattering in wide-field two-photon imaging by extended detection and computational reconstruction. *Optics Express*, **2019**, 27, 20117-20132	3.3	3
369	Adaptive optimization for axial multi-foci generation in multiphoton microscopy. *Optics Express*, **2019**, 27, 35948-35961	3.3	3
368	Prior-information-free single-shot scattering imaging beyond the memory effect. *Optics Letters*, **2019**, 44, 1423-1426	3	20
367	Stretchable and upconversion-luminescent polymeric optical sensor for wearable multifunctional sensing. *Optics Letters*, **2019**, 44, 5747-5750	3	9

366	Schlieren two-photon microscopy for phase-contrast imaging. *Applied Optics*, **2019**, 58, A26-A31	1.7	1
365	Artifact-free 3D deconvolution for light field microscopy **2019**,		1
364	Schlieren two-photon microscopy for phase-contrast imaging: publisher's note. *Applied Optics*, **2019**, 58, 2137	1.7	
363	Multispectral video acquisition using spectral sweep camera. *Optics Express*, **2019**, 27, 27088-27102	3.3	2
362	DECODE: Deep Confidence Network for Robust Image Classification. *IEEE Transactions on Image Processing*, **2019**, 28, 3752-3765	8.7	38
361	Dual-View Ranking with Hardness Assessment for Zero-Shot Learning. *Proceedings of the AAAI Conference on Artificial Intelligence*, **2019**, 33, 8360-8367	5	6
360	DeepHuman: 3D Human Reconstruction From a Single Image **2019**,		88
359	**2019**,		38
358	Hybrid spatio-spectral coherent adaptive compensation for line-scanning temporal focusing microscopy. *Journal Physics D: Applied Physics*, **2019**, 52, 024001	3	5
357	Rank Minimization for Snapshot Compressive Imaging. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2019**, 41, 2990-3006	13.3	94
356	Real-time indoor scene reconstruction with Manhattan assumption. *Multimedia Tools and Applications*, **2019**, 78, 713-726	2.5	1
355	Collaborative Representation Cascade for Single-Image Super-Resolution. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2019**, 49, 845-860	7.3	14
354	Single-shot thermal ghost imaging using wavelength-division multiplexing. *Applied Physics Letters*, **2018**, 112, 051107	3.4	14
353	Predicting Model and Algorithm in RNA Folding Structure Including Pseudoknots. *International Journal of Pattern Recognition and Artificial Intelligence*, **2018**, 32, 1851005	1.1	0
352	Convolutional Sparse Coding for RGB+NIR Imaging. *IEEE Transactions on Image Processing*, **2018**, 27, 1611-1625	8.7	20
351	. *IEEE Transactions on Intelligent Transportation Systems*, **2018**, 19, 284-295	6.1	171
350	Plenoptic Image Coding using Macropixel-based Intra Prediction. *IEEE Transactions on Image Processing*, **2018**,	8.7	15
349	Residual Highway Convolutional Neural Networks for in-loop Filtering in HEVC. *IEEE Transactions on Image Processing*, **2018**, 27, 3827-3841	8.7	83

348	Adaptive Residual Networks for High-Quality Image Restoration. *IEEE Transactions on Image Processing*, **2018**, 27, 3150-3163	8.7	45
347	ACID: Association Correction for Imbalanced Data in GWAS. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2018**, 15, 316-322	3	5
346	Outdoor Markerless Motion Capture with Sparse Handheld Video Cameras. *IEEE Transactions on Visualization and Computer Graphics*, **2018**, 24, 1856-1866	4	13
345	Probabilistic natural mapping of gene-level tests for genome-wide association studies. *Briefings in Bioinformatics*, **2018**, 19, 545-553	13.4	5
344	FlyCap: Markerless Motion Capture Using Multiple Autonomous Flying Cameras. *IEEE Transactions on Visualization and Computer Graphics*, **2018**, 24, 2284-2297	4	20
343	Approximation and blind reconstruction of volumetric light field. *Optics Express*, **2018**, 26, 16836-16852	3.3	2
342	Doubling the pixel count limitation of single-pixel imaging via sinusoidal amplitude modulation. *Optics Express*, **2018**, 26, 6929-6942	3.3	9
341	. *IEEE Transactions on Multimedia*, **2018**, 1-1	6.6	1
340	Adaptive polarization-difference transient imaging for depth estimation in scattering media. *Optics Letters*, **2018**, 43, 1299-1302	3	7
339	Single-shot lensless imaging via simultaneous multi-angle LED illumination. *Optics Express*, **2018**, 26, 21418-21432	3.3	35
338	Enhancing axial resolution and background rejection in line-scanning temporal focusing microscopy by focal modulation. *Optics Express*, **2018**, 26, 21518-21526	3.3	8
337	Experimental comparison of single-pixel imaging algorithms. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2018**, 35, 78-87	1.8	76
336	Non-invasive imaging through strongly scattering media based on speckle pattern estimation and deconvolution. *Scientific Reports*, **2018**, 8, 9088	4.9	9
335	. *IEEE Transactions on Multimedia*, **2018**, 20, 3389-3398	6.6	148
334	Invited Article: Mask-modulated lensless imaging with multi-angle illuminations. *APL Photonics*, **2018**, 3, 060803	5.2	16
333	GPU-based deep convolutional neural network for tomographic phase microscopy with 1 fitting and regularization. *Journal of Biomedical Optics*, **2018**, 23, 1-7	3.5	6
332	Snapshot quantitative phase microscopy with a printed film. *Optics Express*, **2018**, 26, 24763-24774	3.3	2
331	Improving collection efficiency in two-photon endoscopy with reflective waveguiding. *Optics Express*, **2018**, 26, 32365-32373	3.3	3

330	Single-pixel phase and fluorescence microscope. *Optics Express*, **2018**, 26, 32451-32462	3.3	17
329	Depth of field extended scattering imaging by light field estimation. *Optics Letters*, **2018**, 43, 4871-4874	3	5
328	Macropixel Based Fast Motion Estimation for Plenoptic Video Compression. *Lecture Notes in Computer Science*, **2018**, 730-739	0.9	
327	Synthetic Aperture Based on Plenoptic Camera for Seeing Through Occlusions. *Lecture Notes in Computer Science*, **2018**, 158-167	0.9	5
326	HybridFusion: Real-Time Performance Capture Using a Single Depth Sensor and Sparse IMUs. *Lecture Notes in Computer Science*, **2018**, 389-406	0.9	24
325	Effective Uyghur Language Text Detection in Complex Background Images for Traffic Prompt Identification. *IEEE Transactions on Intelligent Transportation Systems*, **2018**, 19, 220-229	6.1	122
324	DoubleFusion: Real-Time Capture of Human Performances with Inner Body Shapes from a Single Depth Sensor **2018**,		94
323	A PID Controller Approach for Stochastic Optimization of Deep Networks **2018**,		19
322	Generating VR Live Videos with Tripod Panoramic Rig **2018**,		3
321	Light Field Stitching for Parallax Tolerance **2018**,		4
320	Plenoptic Image Compression via Simplified Subaperture Projection. *Lecture Notes in Computer Science*, **2018**, 274-284	0.9	5
319	Image Denoising with Local Dense and Adaptive Global Residual Networks. *Lecture Notes in Computer Science*, **2018**, 27-37	0.9	
318	Polarization-based super-resolution imaging of surface-enhanced Raman scattering nanoparticles with orientational information. *Nanoscale*, **2018**, 10, 19757-19765	7.7	10
317	Snapshot hyperspectral imaging via spectral basis multiplexing in Fourier domain. *Optics Express*, **2018**, 26, 32509-32521	3.3	10
316	Multi-scale Convolutional Neural Networks for Non-blind Image Deconvolution. *Lecture Notes in Computer Science*, **2018**, 911-919	0.9	
315	Image Formation Analysis and Light Field Information Reconstruction for Plenoptic Camera 2.0. *Lecture Notes in Computer Science*, **2018**, 609-618	0.9	
314	Deep Direct Reinforcement Learning for Financial Signal Representation and Trading. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 653-664	10.3	248
313	Frequency-Domain Transient Imaging. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2017**, 39, 937-950	13.3	5

312	Efficient Method for High-Quality Removal of Nonuniform Blur in the Wavelet Domain. *IEEE Transactions on Circuits and Systems for Video Technology*, **2017**, 27, 1869-1881	6.4	7
311	A Hierarchical Fused Fuzzy Deep Neural Network for Data Classification. *IEEE Transactions on Fuzzy Systems*, **2017**, 25, 1006-1012	8.3	182
310	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	6.4	38
309	Discriminant Kernel Assignment for Image Coding. *IEEE Transactions on Cybernetics*, **2017**, 47, 1434-1445	10.2	3
308	Depth Estimation by Parameter Transfer With a Lightweight Model for Single Still Images. *IEEE Transactions on Circuits and Systems for Video Technology*, **2017**, 27, 748-759	6.4	9
307	Bosco: Boosting Corrections for Genome-Wide Association Studies With Imbalanced Samples. *IEEE Transactions on Nanobioscience*, **2017**, 16, 69-77	3.4	11
306	Fourier ptychographic microscopy using wavelength multiplexing. *Journal of Biomedical Optics*, **2017**, 22, 66006	3.5	14
305	Group-based sparse representation for Fourier ptychography microscopy. *Optics Communications*, **2017**, 404, 55-61	2	7
304	High Speed Computational Ghost Imaging via Spatial Sweeping. *Scientific Reports*, **2017**, 7, 45325	4.9	32
303	. *IEEE Transactions on Multimedia*, **2017**, 19, 1821-1836	6.6	20
302	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	4	28
301	Emerging theories and technologies on computational imaging. *Frontiers of Information Technology and Electronic Engineering*, **2017**, 18, 1207-1221	2.2	3
300	Image Reshaping for Efficient Compression of Plenoptic Content. *IEEE Journal on Selected Topics in Signal Processing*, **2017**, 11, 1173-1186	7.5	14
299	Non-invasive imaging based on speckle pattern estimation and deconvolution **2017**,		1
298	Light Field Image Processing: An Overview. *IEEE Journal on Selected Topics in Signal Processing*, **2017**, 11, 926-954	7.5	233
297	Fourier ptychographic microscopy with sparse representation. *Scientific Reports*, **2017**, 7, 8664	4.9	10
296	Separating reflective and fluorescent components for dynamic scenes. *Optics Communications*, **2017**, 404, 11-17	2	1
295	Fourier ptychography for high space-bandwidth product microscopy. *Advanced Optical Technologies* , **2017**, 6,	0.9	3

294	Efficient single-pixel multispectral imaging via non-mechanical spatio-spectral modulation. *Scientific Reports*, **2017**, 7, 41435	4.9	31
293	Enhanced depth estimation for hand-held light field cameras **2017**,		2
292	Multiscale gigapixel video: A cross resolution image matching and warping approach **2017**,		14
291	Video-Based Outdoor Human Reconstruction. *IEEE Transactions on Circuits and Systems for Video Technology*, **2017**, 27, 760-770	6.4	19
290	Toward Simultaneous Visual Comfort and Depth Sensation Optimization for Stereoscopic 3-D Experience. *IEEE Transactions on Cybernetics*, **2017**, 47, 4521-4533	10.2	15
289	GPU-based depth estimation for light field images **2017**,		2
288	Information transduction capacity reduces the uncertainties in annotation-free isoform discovery and quantification. *Nucleic Acids Research*, **2017**, 45, e143	20.1	6
287	Lenslet image compression based on image reshaping and macro-pixel Intra prediction **2017**,		4
286	Single depth image super-resolution and denoising based on sparse graphs via structure tensor **2017**,		2
285	Light Field Reconstruction Using Deep Convolutional Network on EPI **2017**,		87
284	BodyFusion: Real-Time Capture of Human Motion and Surface Geometry Using a Single Depth Camera **2017**,		67
283	Exponential decay sine wave learning rate for fast deep neural network training **2017**,		14
282	Lenslet image compression using adaptive macropixel prediction **2017**,		3
281	Synthetic aperture based on plenoptic cameras for seeing behind occlusion **2017**,		2
280	Distance measurement based on light field geometry and ray tracing. *Optics Express*, **2017**, 25, 59-76	3.3	22
279	Fourier ptychographic microscopy using a generalized Anscombe transform approximation of the mixed Poisson-Gaussian likelihood. *Optics Express*, **2017**, 25, 168-179	3.3	23
278	Point spread function and depth-invariant focal sweep point spread function for plenoptic camera 2.0. *Optics Express*, **2017**, 25, 9947-9962	3.3	11
277	Contrast and resolution enhanced optical sectioning in scattering tissue using line-scanning two-photon structured illumination microscopy. *Optics Express*, **2017**, 25, 32010-32020	3.3	12

276	Real-Time Geometry, Albedo, and Motion Reconstruction Using a Single RGB-D Camera. *ACM Transactions on Graphics*, **2017**, 36, 1	7.6	45
275	Real-Time Geometry, Albedo, and Motion Reconstruction Using a Single RGB-D Camera. *ACM Transactions on Graphics*, **2017**, 36, 1-13	7.6	48
274	A Polynomial Approximation Motion Estimation Model for Motion-Compensated Frame Interpolation. *IEEE Transactions on Circuits and Systems for Video Technology*, **2016**, 26, 1421-1432	6.4	9
273	Content-adaptive ghost imaging of dynamic scenes. *Optics Express*, **2016**, 24, 7328-36	3.3	14
272	Scattering robust 3D reconstruction via polarized transient imaging. *Optics Letters*, **2016**, 41, 3948-51	3	7
271	. *IEEE Transactions on Multimedia*, **2016**, 18, 2104-2114	6.6	36
270	Efficient single pixel imaging in Fourier space. *Journal of Optics (United Kingdom)*, **2016**, 18, 085704	1.7	37
269	Sampling-based causal inference in cue combination and its neural implementation. *Neurocomputing*, **2016**, 175, 155-165	5.4	8
268	Normalized filter pool for prior modeling of nature images. *Machine Vision and Applications*, **2016**, 27, 437-446	2.8	
267	Depth dithering based on texture edge-assisted classification. *Signal Processing: Image Communication*, **2016**, 47, 56-71	2.8	
266	Online distribution and interaction of video data in social multimedia network. *Multimedia Tools and Applications*, **2016**, 75, 12941-12954	2.5	8
265	Robust subspace segmentation via nonconvex low rank representation. *Information Sciences*, **2016**, 340-341, 144-158	7.7	13
264	Image Categorization by Learning a Propagated Graphlet Path. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 674-85	10.3	25
263	Toward a Blind Deep Quality Evaluator for Stereoscopic Images Based on Monocular and Binocular Interactions. *IEEE Transactions on Image Processing*, **2016**, 25, 2059-74	8.7	59
262	. *IEEE Transactions on Multimedia*, **2016**, 18, 405-417	6.6	50
261	Directed Adaptive Graphical Lasso for causality inference. *Neurocomputing*, **2016**, 173, 1989-1994	5.4	3
260	Hyperspectral Computational Ghost Imaging via Temporal Multiplexing. *IEEE Photonics Technology Letters*, **2016**, 28, 288-291	2.2	21
259	Advanced Illumination Pattern in Fourier Ptychographic Microscopy **2016**,		1

258	Wavelength Multiplexed Fourier Ptychograhic Microscopy **2016**,		2
257	Motion-corrected Fourier ptychography. *Biomedical Optics Express*, **2016**, 7, 4543-4553	3.5	20
256	Deep and Structured Robust Information Theoretic Learning for Image Analysis. *IEEE Transactions on Image Processing*, **2016**, 25, 4209-4221	8.7	19
255	Fourier ptychographic reconstruction using Poisson maximum likelihood and truncated Wirtinger gradient. *Scientific Reports*, **2016**, 6, 27384	4.9	45
254	Multispectral imaging using a single bucket detector. *Scientific Reports*, **2016**, 6, 24752	4.9	78
253	WBSMDA: Within and Between Score for MiRNA-Disease Association prediction. *Scientific Reports*, **2016**, 6, 21106	4.9	238
252	. *IEEE Transactions on Multimedia*, **2016**, 18, 2331-2344	6.6	5
251	Snapshot Hyperspectral Volumetric Microscopy. *Scientific Reports*, **2016**, 6, 24624	4.9	30
250	Plenoptic image compression based on linear transformation and interpolation **2016**,		3
249	Local visual feature fusion via maximum margin multimodal deep neural network. *Neurocomputing*, **2016**, 175, 427-432	5.4	11
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