

Huazhong Shu

List of Publications by Year in descending order

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93
papers

2,089
citations

304743

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h-index

265206

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95
docs citations

95
times ranked

1959
citing authors

#	ARTICLE	IF	CITATIONS
1	Few-Shot Learning for Deformable Medical Image Registration With Perception-Correspondence Decoupling and Reverse Teaching. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1177-1187.	6.3	15
2	MVSGAN: Spatial-Aware Multi-View CMR Fusion for Accurate 3D Left Ventricular Myocardium Segmentation. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2264-2275.	6.3	3
3	Trajectory Grouping With Curvature Regularization for Tubular Structure Tracking. IEEE Transactions on Image Processing, 2022, 31, 405-418.	9.8	1
4	Landmark Localization for Cephalometric Analysis Using Multiscale Image Patch-Based Graph Convolutional Networks. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3015-3024.	6.3	5
5	Temporal Cross-Graph Network for Brain Functional Activity Prediction. , 2022, , .		0
6	Investigation of two neural mass models for DCM-based effective connectivity inference in temporal epilepsy. Computer Methods and Programs in Biomedicine, 2022, 221, 106840.	4.7	1
7	MNet: Rethinking 2D/3D Networks for Anisotropic Medical Image Segmentation. , 2022, , .		18
8	Spatio-temporal graph convolutional network for diagnosis and treatment response prediction of major depressive disorder from functional connectivity. Human Brain Mapping, 2021, 42, 3922-3933.	3.6	28
9	3D Morphologic Findings Before and After Thoracic Endovascular Aortic Repair for Type B Aortic Dissection. Annals of Vascular Surgery, 2021, 74, 220-228.	0.9	4
10	Meta grayscale adaptive network for 3D integrated renal structures segmentation. Medical Image Analysis, 2021, 71, 102055.	11.6	21
11	GSCFN: A graph self-construction and fusion network for semi-supervised brain tissue segmentation in MRI. Neurocomputing, 2021, 455, 23-37.	5.9	7
12	An adaptive optimal viewing angle determination algorithm for TEVAR operation. BMC Medical Imaging, 2021, 21, 141.	2.7	1
13	Fractional Wavelet-Based Generative Scattering Networks. Frontiers in Neurorobotics, 2021, 15, 752752.	2.8	1
14	Examinee-Examiner Network: Weakly Supervised Accurate Coronary Lumen Segmentation Using Centerline Constraint. IEEE Transactions on Image Processing, 2021, 30, 9429-9441.	9.8	6
15	Thin Semantics Enhancement via High-Frequency Prior Rule for Thin Structures Segmentation. , 2021, , .		0
16	Fast and accurate segmentation method of active shape model with Rayleigh mixture model clustering for prostate ultrasound images. Computer Methods and Programs in Biomedicine, 2020, 184, 105097.	4.7	15
17	Compressed sensing MR image reconstruction via a deep frequency-division network. Neurocomputing, 2020, 384, 346-355.	5.9	11
18	Discriminative feature representation for Noisy image quality assessment. Multimedia Tools and Applications, 2020, 79, 7783-7809.	3.9	1

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19	Fractional Spectral Graph Wavelets and Their Applications. Mathematical Problems in Engineering, 2020, 2020, 1-18.	1.1	6
20	Dense biased networks with deep priori anatomy and hard region adaptation: Semi-supervised learning for fine renal artery segmentation. Medical Image Analysis, 2020, 63, 101722.	11.6	43
21	Automatic Extraction of Blur Regions on a Single Image Based on Semantic Segmentation. IEEE Access, 2020, 8, 44867-44878.	4.2	4
22	On the identification of the blood vessel confounding effect in intravoxel incoherent motion (IVIM) Diffusion-Weighted (DW)-MRI in liver: An efficient sparsity based algorithm. Medical Image Analysis, 2020, 61, 101637.	11.6	4
23	Vessel Structure Extraction using Constrained Minimal Path Propagation. Artificial Intelligence in Medicine, 2020, 105, 101846.	6.5	3
24	Deep octonion networks. Neurocomputing, 2020, 397, 179-191.	5.9	20
25	Anisotropic tubular minimal path model with fast marching front freezing scheme. Pattern Recognition, 2020, 104, 107349.	8.1	0
26	Weakly-supervised convolutional neural networks of renal tumor segmentation in abdominal CTA images. BMC Medical Imaging, 2020, 20, 37.	2.7	30
27	HIFUNet: Multi-Class Segmentation of Uterine Regions From MR Images Using Global Convolutional Networks for HIFU Surgery Planning. IEEE Transactions on Medical Imaging, 2020, 39, 3309-3320.	8.9	19
28	Deep Complementary Joint Model for Complex Scene Registration and Few-Shot Segmentation on Medical Images. Lecture Notes in Computer Science, 2020, , 770-786.	1.3	13
29	Fractional Wavelet Scattering Network and Applications. IEEE Transactions on Biomedical Engineering, 2019, 66, 553-563.	4.2	27
30	Nonrigid Medical Image Registration Using an Information Theoretic Measure Based on Arimoto Entropy with Gradient Distributions. Entropy, 2019, 21, 189.	2.2	5
31	Vessel Extraction Using Crossing-Adaptive Minimal Path Model With Anisotropic Enhancement And Curvature Constraint. , 2019, , .		1
32	Image denoising via a non-local patch graph total variation. PLoS ONE, 2019, 14, e0226067.	2.5	2
33	Vessel segmentation using centerline constrained level set method. Multimedia Tools and Applications, 2019, 78, 17051-17075.	3.9	17
34	Iterative spatial fuzzy clustering for 3D brain magnetic resonance image supervoxel segmentation. Journal of Neuroscience Methods, 2019, 311, 17-27.	2.5	19
35	DPA-DenseBiasNet: Semi-supervised 3D Fine Renal Artery Segmentation with Dense Biased Network and Deep Prior Anatomy. Lecture Notes in Computer Science, 2019, , 139-147.	1.3	20
36	Phase-Constrained Parallel Magnetic Resonance Imaging Reconstruction Based on Low-Rank Matrix Completion. IEEE Access, 2018, 6, 4941-4954.	4.2	2

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37	VIP-CSI: Virtual Phantom Chemical Shift Imaging. <i>Applied Magnetic Resonance</i> , 2018, 49, 369-380.	1.2	0
38	Accurate image segmentation using Gaussian mixture model with saliency map. <i>Pattern Analysis and Applications</i> , 2018, 21, 869-878.	4.6	15
39	Structure-Adaptive Fuzzy Estimation for Random-Valued Impulse Noise Suppression. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018, 28, 414-427.	8.3	72
40	Fast Gray Code Kernel Algorithm for the Sliding Conjugate Symmetric Sequency-Ordered Complex Hadamard Transform. <i>IEEE Access</i> , 2018, 6, 56029-56045.	4.2	3
41	Medical Image Blind Integrity Verification with Krawtchouk Moments. <i>International Journal of Biomedical Imaging</i> , 2018, 2018, 1-11.	3.9	6
42	Multimodal Medical Image Registration Based on an Information-Theory Measure with Histogram Estimation of Continuous Image Representation. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-12.	1.1	1
43	Automatic brain tissue segmentation based on graph filter. <i>BMC Medical Imaging</i> , 2018, 18, 9.	2.7	12
44	Color image watermarking using a discrete trinion Fourier transform. <i>Journal of Electronic Imaging</i> , 2018, 27, 1.	0.9	9
45	Robust hashing for image authentication using SIFT feature and quaternion Zernike moments. <i>Multimedia Tools and Applications</i> , 2017, 76, 2609-2626.	3.9	33
46	Fractional Krawtchouk Transform With an Application to Image Watermarking. <i>IEEE Transactions on Signal Processing</i> , 2017, 65, 1894-1908.	5.3	65
47	Edge-preserving denoising for intra-operative cone beam CT in endovascular aneurysm repair. <i>Computerized Medical Imaging and Graphics</i> , 2017, 56, 49-59.	5.8	7
48	Active wideband higher-order raypath separation in multipath environment. <i>Journal of the Acoustical Society of America</i> , 2017, 141, EL38-EL44.	1.1	5
49	A local adjustment strategy for the initialization of dynamic causal modelling to infer effective connectivity in brain epileptic structures. <i>Computers in Biology and Medicine</i> , 2017, 84, 30-44.	7.0	3
50	Two-dimensional active raypath separation using examination of the roots of the spectrum polynomial. <i>Journal of the Acoustical Society of America</i> , 2017, 142, EL408-EL414.	1.1	0
51	Discriminative Prior - Prior Image Constrained Compressed Sensing Reconstruction for Low-Dose CT Imaging. <i>Scientific Reports</i> , 2017, 7, 13868.	3.3	17
52	Fast segmentation of ultrasound images by incorporating spatial information into Rayleigh mixture model. <i>IET Image Processing</i> , 2017, 11, 1188-1196.	2.5	2
53	Coronary Artery Stenosis Quantification for Computed Tomography Angiography Based on Modified Student's <i>t</i> -Mixture Model. <i>ETRI Journal</i> , 2017, 39, 662-671.	2.0	0
54	Automatic coronary calcium scoring using noncontrast and contrast CT images. <i>Medical Physics</i> , 2016, 43, 2174-2186.	3.0	36

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55	Robust watermarking scheme for color image based on quaternion-type moment invariants and visual cryptography. <i>Signal Processing: Image Communication</i> , 2016, 48, 12-21.	3.2	43
56	Color image classification via quaternion principal component analysis network. <i>Neurocomputing</i> , 2016, 216, 416-428.	5.9	62
57	Improving Low-dose Cardiac CT Images based on 3D Sparse Representation. <i>Scientific Reports</i> , 2016, 6, 22804.	3.3	9
58	Noise reduction of diffusion tensor images by sparse representation and dictionary learning. <i>BioMedical Engineering OnLine</i> , 2016, 15, 5.	2.7	14
59	Curve-Like Structure Extraction Using Minimal Path Propagation With Backtracking. <i>IEEE Transactions on Image Processing</i> , 2016, 25, 988-1003.	9.8	156
60	Optimized Parallelization for Nonlocal Means Based Low Dose CT Image Processing. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-11.	1.3	0
61	Combining double random phase encoding for color image watermarking in quaternion gyrator domain. <i>Optics Communications</i> , 2015, 343, 56-65.	2.1	30
62	Robust hashing for image authentication using quaternion discrete Fourier transform and log-polar transform. , 2015, 41, 98-109.		62
63	Inferring effective connectivity in epilepsy using dynamic causal modeling. <i>Irbm</i> , 2015, 36, 335-344.	5.6	3
64	Gradient compared \hat{a} , "p-LMS algorithms for sparse system identification. , 2015, , .		1
65	Color Image Analysis by Quaternion-Type Moments. <i>Journal of Mathematical Imaging and Vision</i> , 2015, 51, 124-144.	1.3	251
66	2-D Impulse Noise Suppression by Recursive Gaussian Maximum Likelihood Estimation. <i>PLoS ONE</i> , 2014, 9, e96386.	2.5	9
67	Pseudo-Zernike moment invariants to blur degradation and similarity transformation. <i>International Journal of Computer Mathematics</i> , 2014, 91, 2403-2414.	1.8	7
68	Blind Image Quality Assessment Using Natural Scene Statistics in the Gradient Domain. , 2014, , .		0
69	Quaternion softmax classifier. <i>Electronics Letters</i> , 2014, 50, 1929-1931.	1.0	39
70	Bias reduction in the estimation of mutual information. <i>Physical Review E</i> , 2014, 90, 052714.	2.1	7
71	Region and boundary feature estimation on ultrasound images using moment invariants. <i>Computer Methods and Programs in Biomedicine</i> , 2014, 113, 446-455.	4.7	7
72	Legendre moment invariants to blur and affine transformation and their use in image recognition. <i>Pattern Analysis and Applications</i> , 2014, 17, 311-326.	4.6	20

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73	A new pencil beam model for photon dose calculations in heterogeneous media. <i>Physica Medica</i> , 2014, 30, 765-773.	0.7	2
74	Removing Gaussian noise for colour images by quaternion representation and optimisation of weights in non-local means filter. <i>IET Image Processing</i> , 2014, 8, 591-600.	2.5	20
75	Full 4-D quaternion discrete Fourier transform based watermarking for color images. , 2014, 28, 106-119.		107
76	Quaternion Bessel-Fourier moments and their invariant descriptors for object reconstruction and recognition. <i>Pattern Recognition</i> , 2014, 47, 603-611.	8.1	69
77	A New Strategy for Model Order Identification and Its Application to Transfer Entropy for EEG Signals Analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 1318-1327.	4.2	24
78	Detecting information flow direction in multivariate linear and nonlinear models. <i>Signal Processing</i> , 2013, 93, 304-312.	3.7	4
79	New Algorithm for Constructing and Computing Scale Invariants of 3D Tchebichef Moments. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-8.	1.1	11
80	Reconstruct the compressively sensed complex-valued terahertz data through BFGS method. , 2013, , .		0
81	Fast Radix-3 Algorithm for the Generalized Discrete Hartley Transform of Type II. <i>IEEE Signal Processing Letters</i> , 2012, 19, 348-351.	3.6	6
82	Sliding Conjugate Symmetric Sequence-Ordered Complex Hadamard Transform: Fast Algorithm and Applications. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012, 59, 1321-1334.	5.4	20
83	Blind Integrity Verification of Medical Images. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012, 16, 1122-1126.	3.2	26
84	Partial mutual information for simple model order determination in multivariate EEG signals and its application to transfer entropy. , 2012, , .		0
85	Contribution in analyzing directional propagation flow in EEG recordings investigating entropic methods and realistic physiological models. , 2011, , .		0
86	Fast Computation of Tchebichef Moments for Binary and Grayscale Images. <i>IEEE Transactions on Image Processing</i> , 2010, 19, 3171-3180.	9.8	70
87	A look at . . . <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2008, 27, 116-118.	0.8	2
88	Image analysis by discrete orthogonal dual Hahn moments. <i>Pattern Recognition Letters</i> , 2007, 28, 1688-1704.	4.2	173
89	Moment-Based Approaches in Imaging. 1. Basic Features [A Look At ...]. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2007, 26, 70-74.	0.8	50
90	Translation and scale invariants of Tchebichef moments. <i>Pattern Recognition</i> , 2007, 40, 2530-2542.	8.1	86

#	ARTICLE	IF	CITATIONS
91	General method to derive the relationship between two sets of Zernike coefficients corresponding to different aperture sizes. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 1960.	1.5	26
92	Three-dimensional optimization of treatment planning for gamma unit treatment system. Medical Physics, 1998, 25, 2352-2357.	3.0	13
93	Projection network with Spatio-temporal information: 2D+time DSA to 2D aorta segmentation. Multimedia Tools and Applications, 0, , .	3.9	1