Xiaosheng Zhuang

List of Publications by Year
in descending order

44	635	15	24
papers	citations	h-index	g-index
		567144	610775

44	44	44	286
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Convolutional Neural Networks for Spherical Signal Processing via Area-Regular Spherical Haar Tight Framelets. IEEE Transactions on Neural Networks and Learning Systems, 2024, PP, 1-11.	7.2	2
2	A tailor-made 3-dimensional directional Haar semi-tight framelet for pMRI reconstruction. Applied and Computational Harmonic Analysis, 2022, 60, 446-470.	1.1	3
3	Dynamic spectral residual superpixels. Pattern Recognition, 2021, 112, 107705.	5.1	6
4	Adaptive Directional Haar Tight Framelets on Bounded Domains for Digraph Signal Representations. Journal of Fourier Analysis and Applications, 2021, 27, 1.	0.5	4
5	Regularization with multilevel non-stationary tight framelets for image restoration. Applied and Computational Harmonic Analysis, 2021, 53, 332-348.	1.1	4
6	Linear Multiscale Transforms Based on Even-Reversible Subdivision Operators. Applied and Numerical Harmonic Analysis, 2021, , 297-319.	0.1	0
7	Tight framelets and fast framelet filter bank transforms on manifolds. Applied and Computational Harmonic Analysis, 2020, 48, 64-95.	1.1	13
8	Fast Haar Transforms for Graph Neural Networks. Neural Networks, 2020, 128, 188-198.	3.3	28
9	Effect of levocetirizine hydrochloride on the growth of human dermal papilla cells: a preliminary study. Annals of Palliative Medicine, 2020, 9, 308-317.	0.5	3
10	Directional Compactly Supported Tensor Product Complex Tight Framelets with Applications to Image Denoising and Inpainting. SIAM Journal on Imaging Sciences, 2019, 12, 1739-1771.	1.3	9
11	Compactly Supported Tensor Product Complex Tight Framelets with Directionality. , 2019, , .		2
12	A Study Concerning Soft Computing Approaches for Stock Price Forecasting. Axioms, 2019, 8, 116.	0.9	11
13	Directional compactly supported box spline tight framelets with simple geometric structure. Applied Mathematics Letters, 2019, 91, 213-219.	1.5	8
14	Tight framelets on graphs for multiscale data analysis. , 2019, , .		6
15	Parallel magnetic resonance imaging reconstruction algorithm by three-dimension directional Haar tight framelet regularization. , 2019, , .		1
16	Digital Affine Shear Filter Banks With 2-Layer Structure and Their Applications in Image Processing. IEEE Transactions on Image Processing, 2018, 27, 3931-3941.	6.0	15
17	Representation of functions on big data associated with directed graphs. Applied and Computational Harmonic Analysis, 2018, 44, 165-188.	1.1	13
18	Symmetric canonical quincunx tight framelets with high vanishing moments and smoothness. Mathematics of Computation, 2017, 87, 347-379.	1.1	21

#	Article	IF	Citations
19	Quincunx Fundamental Refinable Functions in Arbitrary Dimensions. Axioms, 2017, 6, 20.	0.9	2
20	Digital affine shear filter banks with 2-layer structure. , 2017, , .		1
21	Affine shear tight frames with two-layer structure. , 2017, , .		0
22	Digital Affine Shear Transforms: Fast Realization and Applications in Image/Video Processing. SIAM Journal on Imaging Sciences, 2016, 9, 1437-1466.	1.3	18
23	Directional tensor product complex tight framelets with low redundancy. Applied and Computational Harmonic Analysis, 2016, 41, 603-637.	1.1	28
24	Multirate systems with shortest spline-wavelet filters. Applied and Computational Harmonic Analysis, 2016, 41, 266-296.	1.1	2
25	Smooth affine shear tight frames: digitization and applications. Proceedings of SPIE, 2015, , .	0.8	0
26	Smooth affine shear tight frames with MRA structure. Applied and Computational Harmonic Analysis, 2015, 39, 300-338.	1.1	26
27	Gabor shearlets. Applied and Computational Harmonic Analysis, 2015, 38, 87-114.	1.1	15
28	Analysis of Inpainting via Clustered Sparsity and Microlocal Analysis. Journal of Mathematical Imaging and Vision, 2014, 48, 205-234.	0.8	38
29	The common Hardy space and BMO space for singular integral operators associated with isotropic and anisotropic homogeneity. Journal of Mathematical Analysis and Applications, 2014, 414, 480-487.	0.5	0
30	Algorithms for matrix extension and orthogonal wavelet filter banks over algebraic number fields. Mathematics of Computation, 2012, 82, 459-490.	1.1	18
31	ShearLab: A Rational Design of a Digital Parabolic Scaling Algorithm. SIAM Journal on Imaging Sciences, 2012, 5, 1291-1332.	1.3	79
32	Matrix extension with symmetry and construction of biorthogonal multiwavelets with any integer dilation. Applied and Computational Harmonic Analysis, 2012, 33, 159-181.	1.1	20
33	A dual-chain approach for bottomâ€“up construction of wavelet filters with any integer dilation. Applied and Computational Harmonic Analysis, 2012, 33, 204-225.	1.1	14
34	Matrix splitting with symmetry and dyadic framelet filter banks over algebraic number fields. Linear Algebra and Its Applications, 2012, 437, 2650-2679.	0.4	9
35	Digital Shearlet Transforms. , 2012, , 239-282.		25
36	Matrix Extension with Symmetry and Its Applications. Springer Proceedings in Mathematics, 2012, , 375-415.	0.5	0

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37	Analysis of data separation and recovery problems using clustered sparsity. Proceedings of SPIE, 2011, , .	0.8	9
38	Coarse quantization with the fast digital shearlet transform. Proceedings of SPIE, 2011, , .	0.8	1
39	Matrix Extension with Symmetry and Its Application to Symmetric Orthonormal Multiwavelets. SIAM Journal on Mathematical Analysis, 2010, 42, 2297-2317.	0.9	29
40	Analysis and Construction of Multivariate Interpolating Refinable Function Vectors. Acta Applicandae Mathematicae, 2009, 107, 143-171.	0.5	17
41	Generalized interpolating refinable function vectors. Journal of Computational and Applied Mathematics, 2009, 227, 254-270.	1.1	27
42	Improved discriminate analysis for high-dimensional data and its application to face recognition. Pattern Recognition, 2007, 40, 1570-1578.	5.1	59
43	Inverse Fisher discriminate criteria for small sample size problem and its application to face recognition. Pattern Recognition, 2005, 38, 2192-2194.	5.1	49
44	Face Recognition by Inverse Fisher Discriminant Features. Lecture Notes in Computer Science, 2005, , 92-98.	1.0	0