Yuichi Tanaka

List of Publications by Year
in descending order

92 papers	1,045 citations	758635 12 h-index	552369 26 g-index
92 all docs	92 docs citations	92 times ranked	679 citing authors

#	Article	IF	Citations
1	Probing the Most Stable Isomer of Zirconium Bis(phenoxy-imine) Cation: A Computational Investigation. Journal of Physical Chemistry A, 2018, 122, 2198-2208.	1.1	3
2	Graph Spectral Image Processing. Proceedings of the IEEE, 2018, 106, 907-930.	16.4	166
3	Multiplierless lifting-based fast X transforms derived from fast Hartley transform factorization. Multidimensional Systems and Signal Processing, 2018, 29, 99-118.	1.7	3
4	Critically-Sampled Graph Filter Banks with Spectral Domain Sampling. , 2018, , .		2
5	Spectral Domain Sampling of Graph Signals. IEEE Transactions on Signal Processing, 2018, 66, 3752-3767.	3.2	43
6	Higher order feasible building blocks for lattice structure of multidimensional linear phase biorthogonal filter banks. Multidimensional Systems and Signal Processing, 2017, 28, 637-655.	1.7	2
7	Critically sampled graph filter banks with polynomial filters from regular domain filter banks. Signal Processing, 2017, 131, 66-72.	2.1	19
8	Accelerated sensor position selection using graph localization operator. , 2017, , .		14
9	Improved eigenvalue shrinkage using weighted Chebyshev polynomial approximation. , 2017, , .		0
10	Solvatochromism and preferential solvation of Brooker's merocyanine in water–methanol mixtures. Journal of Computational Chemistry, 2017, 38, 2411-2419.	1.5	12
11	A "polyphase" structure of two-channel spectral graph wavelets and filter banks. , 2017, , .		1
12	Almost Tight Spectral Graph Wavelets With Polynomial Filters. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 812-824.	7.3	11
13	Directional discrete cosine transforms arising from discrete cosine and sine transforms for directional block-wise image representation. , 2017, , .		1
14	Colors in multimodal data: Dominant line extraction inspired by computer vision techniques. , 2017, , .		1
15	Design of polynomial approximated filters for signals on directed graphs. , 2017, , .		4
16	Fast Singular Value Shrinkage With Chebyshev Polynomial Approximation Based on Signal Sparsity. IEEE Transactions on Signal Processing, 2017, 65, 6083-6096.	3.2	10
17	Graph reduction method using localization operator and its application to pyramid transform. , 2017, , .		1
18	Non-Blind Deconvolution of Point Cloud Attributes in Graph Spectral Domain. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 1751-1759.	0.2	1

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19	Deforming Pyramid: Multiscale Image Representation Using Pixel Deformation and Filters for Non-Equispaced Signals. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 1646-1654.	0.2	2
20	Spectral Graph Wavelets and Filter Banks With Low Approximation Error. IEEE Transactions on Signal and Information Processing Over Networks, 2016, 2, 230-245.	1.6	35
21	Multilinear Discriminant Analysis With Subspace Constraints for Single-Trial Classification of Event-Related Potentials. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1295-1305.	7.3	18
22	â„"<inf>1</inf>-Regularized optimization of undersampled prefilters for image coding. , 2016, , .		0
23	Smoothing of xDAWN spatial filters for robust extraction of event-related potentials. , 2016, , .		4
24	Construction of undersampled graph filter banks via row subset selection. , 2016, , .		2
25	Pyramidal image representation with deformation: Reformulation of domain transform and filter designs. , 2016, , .		6
26	Mesh-based image retargeting with spectral graph filtering. , 2016, , .		0
27	Image colorization based on ADMM with fast singular value thresholding by Chebyshev polynomial approximation. , 2016, , .		3
28	Deblurring of point cloud attributes in graph spectral domain. , 2016, , .		11
29	Dimensionality reduction of sample covariance matrices by graph fourier transform for motor imagery brain-machine interface. , 2016, , .		14
30	Efficient sensor position selection using graph signal sampling theory. , 2016, , .		29
31	Near Orthogonal Oversampled Graph Filter Banks. IEEE Signal Processing Letters, 2016, , 1-1.	2.1	4
32	Graph Signal Denoising via Trilateral Filter on Graph Spectral Domain. IEEE Transactions on Signal and Information Processing Over Networks, 2016, 2, 137-148.	1.6	65
33	Subspace-constrained multilinear discriminant analysis for ERP-based brain computer interface classification. , 2015, , .		3
34	Three-dimensional reference interaction site model self-consistent field analysis of solvent and substituent effects on the absorption spectra of Brooker's merocyanine. Journal of Computational Chemistry, 2015, 36, 1655-1663.	1.5	7
35	Globalized BM3D using fast eigenvalue filtering. , 2015, , .		7
36	Non-local/local image filters using fast eigenvalue filtering. , 2015, , .		4

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37	Edge preserving multiscale image decomposition with customized domain transform filters. , 2015, , .		4
38	Oversampled bipartite graphs with controlled redundancy. , 2015, , .		0
39	Performance analysis of retargeting pyramid and its applications. , 2015, , .		0
40	Critically sampled graph wavelets converted from linear-phase biorthogonal wavelets. , 2015, , .		2
41	Design of Optimized Prefilters for Time-Domain Lapped Transforms with Various Downsampling Factors. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 1907-1917.	0.2	2
42	Oversampled Graph Laplacian Matrix for Graph Filter Banks. IEEE Transactions on Signal Processing, 2014, 62, 6425-6437.	3.2	106
43	Depth map denoising using collaborative graph wavelet shrinkage on connected image patches. , 2014, , .		11
44	Multidimensional linear-phase perfect reconstruction filter banks with higher order feasible building blocks. , 2014, , .		0
45	Iterative edge-directed image upscaling with high directionality. , 2014, , .		1
46	Retargeting pyramid using direct decimation. , 2014, , .		4
47	M-channel oversampled perfect reconstruction filter banks for graph signals. , 2014, , .		9
48	Trilateral filter on graph spectral domain. , 2014, , .		7
49	Edge-aware image graph expansion methods for oversampled graph Laplacian matrix. , 2014, , .		5
50	<formula formulatype="inline"><tex Notation="TeX">M</tex></formula>-Channel Oversampled Graph Filter Banks. IEEE Transactions on Signal Processing, 2014, 62, 3578-3590.	3.2	193
51	General Factorization of Conjugate-Symmetric Hadamard Transforms. IEEE Transactions on Signal Processing, 2014, 62, 3379-3392.	3.2	12
52	Smoothing of spatial filter by graph Fourier transform for EEG signals. , 2014, , .		14
53	Solvent effect on excited states of merocyanines: A theoretical study using the RISMâ€"SCF method. Chemical Physics Letters, 2013, 583, 69-73.	1.2	7
54	Multiplierless lifting based FFT via fast Hartley transform. , 2013, , .		4

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55	Design of optimized prefilters for time-domain lapped transforms with various downsampling factors. , 2013, , .		0
56	Improved adaptive color embedding and recovery using DC level shifting. , 2013, , .		3
57	Scalable image representation using improved retargeting pyramid. , 2013, , .		3
58	Selective data pruning based distributed video coding with modified high-order edge-directed interpolation. , 2013, , .		0
59	Image restoration using similar region search and digital watermark. , 2013, , .		0
60	A two-dimensional non-separable implementation of dyadic-valued cosine-sine modulated filter banks for low computational complexity. , 2013, , .		1
61	Rate-dependent seam carving and its application to content-aware image coding. APSIPA Transactions on Signal and Information Processing, 2013, 2, .	2.6	5
62	Wavelet-based content-aware image coding with rate-dependent seam carving. , 2012, , .		1
63	Adaptive color-to-gray image mapping using directional transform. , 2012, , .		2
64	On factorizations of conjugate symmetric Hadamard transform and its relationship with DCT. , 2012, , .		1
65	Multiplierless fast algorithm for DCT via fast Hartley transform. , 2012, , .		2
66	Digital image watermarking method using between-class variance. , 2012, , .		1
67	Flexible Combination of Time-Domain Lapped Transforms with Various Downsampling Factors. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 2049-2058.	0.2	2
68	A structural similarity assessment for generating hybrid images. , 2011, , .		2
69	Variable block size-based MCFI with fixed block size motion estimation. , 2011, , .		0
70	Mixed-resolution Wyner-Ziv video coding based on selective data pruning. , 2011, , .		2
71	Seam carving with rate-dependent seam path information. , 2011, , .		10
72	Generalized selective data pruning for video sequence. , 2011, , .		2

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73	Direction scalability of adaptive directional wavelet transform: An approach using block-lifting based DCT and SPIHT. , 2010, , .		1
74	Adaptive Directional Wavelet Transform Based on Directional Prefiltering. IEEE Transactions on Image Processing, 2010, 19, 934-945.	6.0	19
75	Image coding using concentration and dilution based on seam carving with hierarchical search. , 2010, , .		13
76	Improved image concentration for artifact-free image dilution and its application to image coding. , 2010, , .		9
77	A study on memorability and shoulder-surfing robustness of graphical password using DWT-based image blending. , 2010, , .		3
78	VQ based data hiding method for still images by tree-structured links. , 2010, , .		0
79	Texture image retrieval using adaptive directional wavelet transform. , 2009, , .		1
80	Higher-order feasible building blocks for lattice structure of oversampled linear-phase perfect reconstruction filter banks. Signal Processing, 2009, 89, 1694-1703.	2.1	10
81	Multiresolution Image Representation Using Combined 2-D and 1-D Directional Filter Banks. IEEE Transactions on Image Processing, 2009, 18, 269-280.	6.0	31
82	An adaptive extension of combined 2D and 1D-directional filter banks. , 2009, , .		0
83	Adaptive directionalwavelet transform using pre-directional filtering. , 2009, , .		2
84	Highpass-filtering based adaptive directional wavelet transform. , 2009, , .		3
85	A study on an image synthesis method for graphical passwords. , 2009, , .		7
86	A Bottom-Up Design Approach of Critically Sampled Contourlet Transform for Efficient Image Representation. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 762-771.	0.2	0
87	Oversampled linear-phase perfect reconstruction filter banks with higher-order feasible building blocks: Structure and parameterization. , 2008, , .		0
88	A new combination of 1D and 2D filter banks for effective multiresolution image representation. , 2008, , .		7
89	A novel design of criticially sampled contourlet transform and its application to image coding. , 2008, , .		2
90	Unequal Length First-Order Linear-Phase Filter Banks for Efficient Image Coding. , 2007, , .		3

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91	A Generalized Lapped Transform with Unequal Length Filters based on First-Order Linear-Phase Filter Banks. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	0
92	An Efficient Lifting Structure of Biorthogonal Filter Banks for Lossless Image Coding. , 2007, , .		8