

# Yuichi Tanaka

## List of Publications by Year in descending order

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92  
papers

1,045  
citations

759233

12  
h-index

552781

26  
g-index

92  
all docs

92  
docs citations

92  
times ranked

679  
citing authors

#	ARTICLE	IF	CITATIONS
1	$\delta$ -Channel Oversampled Graph Filter Banks. IEEE Transactions on Signal Processing, 2014, 62, 3578-3590.	5.3	193
2	Graph Spectral Image Processing. Proceedings of the IEEE, 2018, 106, 907-930.	21.3	166
3	Oversampled Graph Laplacian Matrix for Graph Filter Banks. IEEE Transactions on Signal Processing, 2014, 62, 6425-6437.	5.3	106
4	Graph Signal Denoising via Trilateral Filter on Graph Spectral Domain. IEEE Transactions on Signal and Information Processing Over Networks, 2016, 2, 137-148.	2.8	65
5	Spectral Domain Sampling of Graph Signals. IEEE Transactions on Signal Processing, 2018, 66, 3752-3767.	5.3	43
6	Spectral Graph Wavelets and Filter Banks With Low Approximation Error. IEEE Transactions on Signal and Information Processing Over Networks, 2016, 2, 230-245.	2.8	35
7	Multiresolution Image Representation Using Combined 2-D and 1-D Directional Filter Banks. IEEE Transactions on Image Processing, 2009, 18, 269-280.	9.8	31
8	Efficient sensor position selection using graph signal sampling theory. , 2016, , .		29
9	Adaptive Directional Wavelet Transform Based on Directional Prefiltering. IEEE Transactions on Image Processing, 2010, 19, 934-945.	9.8	19
10	Critically sampled graph filter banks with polynomial filters from regular domain filter banks. Signal Processing, 2017, 131, 66-72.	3.7	19
11	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.	10.8	18
12	Smoothing of spatial filter by graph Fourier transform for EEG signals. , 2014, , .		14
13	Dimensionality reduction of sample covariance matrices by graph fourier transform for motor imagery brain-machine interface. , 2016, , .		14
14	Accelerated sensor position selection using graph localization operator. , 2017, , .		14
15	Image coding using concentration and dilution based on seam carving with hierarchical search. , 2010, , .		13
16	General Factorization of Conjugate-Symmetric Hadamard Transforms. IEEE Transactions on Signal Processing, 2014, 62, 3379-3392.	5.3	12
17	Solvatochromism and preferential solvation of Brooker's merocyanine in water-methanol mixtures. Journal of Computational Chemistry, 2017, 38, 2411-2419.	3.3	12
18	Depth map denoising using collaborative graph wavelet shrinkage on connected image patches. , 2014, , .		11

#	ARTICLE	IF	CITATIONS
19	Deblurring of point cloud attributes in graph spectral domain. , 2016, , .		11
20	Almost Tight Spectral Graph Wavelets With Polynomial Filters. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 812-824.	10.8	11
21	Higher-order feasible building blocks for lattice structure of oversampled linear-phase perfect reconstruction filter banks. Signal Processing, 2009, 89, 1694-1703.	3.7	10
22	Seam carving with rate-dependent seam path information. , 2011, , .		10
23	Fast Singular Value Shrinkage With Chebyshev Polynomial Approximation Based on Signal Sparsity. IEEE Transactions on Signal Processing, 2017, 65, 6083-6096.	5.3	10
24	Improved image concentration for artifact-free image dilution and its application to image coding. , 2010, , .		9
25	M-channel oversampled perfect reconstruction filter banks for graph signals. , 2014, , .		9
26	An Efficient Lifting Structure of Biorthogonal Filter Banks for Lossless Image Coding. , 2007, , .		8
27	A new combination of 1D and 2D filter banks for effective multiresolution image representation. , 2008, , .		7
28	A study on an image synthesis method for graphical passwords. , 2009, , .		7
29	Solvent effect on excited states of merocyanines: A theoretical study using the RISMâ€“SCF method. Chemical Physics Letters, 2013, 583, 69-73.	2.6	7
30	Trilateral filter on graph spectral domain. , 2014, , .		7
31	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.	3.3	7
32	Globalized BM3D using fast eigenvalue filtering. , 2015, , .		7
33	Pyramidal image representation with deformation: Reformulation of domain transform and filter designs. , 2016, , .		6
34	Rate-dependent seam carving and its application to content-aware image coding. APSIPA Transactions on Signal and Information Processing, 2013, 2, .	3.3	5
35	Edge-aware image graph expansion methods for oversampled graph Laplacian matrix. , 2014, , .		5
36	Multiplierless lifting based FFT via fast Hartley transform. , 2013, , .		4

#	ARTICLE	IF	CITATIONS
37	Retargeting pyramid using direct decimation. , 2014, , .		4
38	Non-local/local image filters using fast eigenvalue filtering. , 2015, , .		4
39	Edge preserving multiscale image decomposition with customized domain transform filters. , 2015, , .		4
40	Smoothing of xDAWN spatial filters for robust extraction of event-related potentials. , 2016, , .		4
41	Near Orthogonal Oversampled Graph Filter Banks. IEEE Signal Processing Letters, 2016, , 1-1.	3.6	4
42	Design of polynomial approximated filters for signals on directed graphs. , 2017, , .		4
43	Unequal Length First-Order Linear-Phase Filter Banks for Efficient Image Coding. , 2007, , .		3
44	Highpass-filtering based adaptive directional wavelet transform. , 2009, , .		3
45	A study on memorability and shoulder-surfing robustness of graphical password using DWT-based image blending. , 2010, , .		3
46	Improved adaptive color embedding and recovery using DC level shifting. , 2013, , .		3
47	Scalable image representation using improved retargeting pyramid. , 2013, , .		3
48	Subspace-constrained multilinear discriminant analysis for ERP-based brain computer interface classification. , 2015, , .		3
49	Image colorization based on ADMM with fast singular value thresholding by Chebyshev polynomial approximation. , 2016, , .		3
50	Probing the Most Stable Isomer of Zirconium Bis(phenoxy-imine) Cation: A Computational Investigation. Journal of Physical Chemistry A, 2018, 122, 2198-2208.	2.5	3
51	Multiplierless lifting-based fast X transforms derived from fast Hartley transform factorization. Multidimensional Systems and Signal Processing, 2018, 29, 99-118.	2.6	3
52	A novel design of critically sampled contourlet transform and its application to image coding. , 2008, , .		2
53	Adaptive directional wavelet transform using pre-directional filtering. , 2009, , .		2
54	A structural similarity assessment for generating hybrid images. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
55	Mixed-resolution Wyner-Ziv video coding based on selective data pruning. , 2011, , .		2
56	Generalized selective data pruning for video sequence. , 2011, , .		2
57	Adaptive color-to-gray image mapping using directional transform. , 2012, , .		2
58	Multiplierless fast algorithm for DCT via fast Hartley transform. , 2012, , .		2
59	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.	0.3	2
60	Critically sampled graph wavelets converted from linear-phase biorthogonal wavelets. , 2015, , .		2
61	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.	0.3	2
62	Construction of undersampled graph filter banks via row subset selection. , 2016, , .		2
63	Higher order feasible building blocks for lattice structure of multidimensional linear phase biorthogonal filter banks. Multidimensional Systems and Signal Processing, 2017, 28, 637-655.	2.6	2
64	Critically-Sampled Graph Filter Banks with Spectral Domain Sampling. , 2018, , .		2
65	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.	0.3	2
66	Texture image retrieval using adaptive directional wavelet transform. , 2009, , .		1
67	Direction scalability of adaptive directional wavelet transform: An approach using block-lifting based DCT and SPIHT. , 2010, , .		1
68	Wavelet-based content-aware image coding with rate-dependent seam carving. , 2012, , .		1
69	On factorizations of conjugate symmetric Hadamard transform and its relationship with DCT. , 2012, , .		1
70	Digital image watermarking method using between-class variance. , 2012, , .		1
71	A two-dimensional non-separable implementation of dyadic-valued cosine-sine modulated filter banks for low computational complexity. , 2013, , .		1
72	Iterative edge-directed image upscaling with high directionality. , 2014, , .		1

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73	A “polyphase”-structure of two-channel spectral graph wavelets and filter banks. , 2017, , .		1
74	Directional discrete cosine transforms arising from discrete cosine and sine transforms for directional block-wise image representation. , 2017, , .		1
75	Colors in multimodal data: Dominant line extraction inspired by computer vision techniques. , 2017, , .		1
76	Graph reduction method using localization operator and its application to pyramid transform. , 2017, , .		1
77	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.	0.3	1
78	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
79	Oversampled linear-phase perfect reconstruction filter banks with higher-order feasible building blocks: Structure and parameterization. , 2008, , .		0
80	An adaptive extension of combined 2D and 1D-directional filter banks. , 2009, , .		0
81	VQ based data hiding method for still images by tree-structured links. , 2010, , .		0
82	Variable block size-based MCFI with fixed block size motion estimation. , 2011, , .		0
83	Design of optimized prefilters for time-domain lapped transforms with various downsampling factors. , 2013, , .		0
84	Selective data pruning based distributed video coding with modified high-order edge-directed interpolation. , 2013, , .		0
85	Image restoration using similar region search and digital watermark. , 2013, , .		0
86	Multidimensional linear-phase perfect reconstruction filter banks with higher order feasible building blocks. , 2014, , .		0
87	Oversampled bipartite graphs with controlled redundancy. , 2015, , .		0
88	Performance analysis of retargeting pyramid and its applications. , 2015, , .		0
89	“ $\ell_1/\ell_2$ ”-Regularized optimization of undersampled prefilters for image coding. , 2016, , .		0
90	Mesh-based image retargeting with spectral graph filtering. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
91	Improved eigenvalue shrinkage using weighted Chebyshev polynomial approximation. , 2017, , .		0
92	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.	0.3	0