David B H Tay

List of Publications by Year
in descending order

40 papers	351 citations	840776 11 h-index	940533 16 g-index
40 all docs	40 docs citations	40 times ranked	196 citing authors

#	Article	IF	Citations
1	Spectral Mappings for Graph Wavelets. IEEE Transactions on Signal Processing, 2022, 70, 3107-3122.	5.3	2
2	Time-Varying Graph Signal Denoising via Median Filters. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1053-1057.	3.0	16
3	Theory and Design of Joint Time-Vertex Nonsubsampled Filter Banks. IEEE Transactions on Signal Processing, 2021, 69, 1968-1982.	5.3	15
4	Augmenting Graph Convolutional Neural Networks with Highpass Filters. Lecture Notes in Computer Science, 2021, , 77-86.	1.3	0
5	Gene selection for cancer detection using graph signal processing. Informatics in Medicine Unlocked, 2021, 25, 100662.	3.4	3
6	Sensor network data denoising via recursive graph median filters. Signal Processing, 2021, 189, 108302.	3.7	16
7	Recovery of Time-Varying Graph Signals via Distributed Algorithms on Regularized Problems. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 540-555.	2.8	13
8	Design of Nonsubsampled Graph Filter Banks via Lifting Schemes. IEEE Signal Processing Letters, 2020, 27, 441-445.	3.6	15
9	Filter Design for Two-Channel Filter Banks on Directed Bipartite Graphs. IEEE Signal Processing Letters, 2020, 27, 2094-2098.	3.6	3
10	An Alternating Variable Technique for the Constrained Minimax Design of Frequency-Response-Masking Filters. Circuits, Systems, and Signal Processing, 2019, 38, 827-846.	2.0	4
11	Decentralised signal processing on graphs via matrix inverse approximation. Signal Processing, 2019, 165, 292-302.	3.7	10
12	M-Channel Graph Filter Banks: Polyphase Analysis and Structures. IEEE Signal Processing Letters, 2019, 26, 730-734.	3.6	4
13	Almost Tight Rational Coefficients Biorthogonal Wavelet Filters. IEEE Signal Processing Letters, 2018, 25, 748-752.	3.6	8
14	On minimal realizations of first-degree 3D systems with separable denominators. Multidimensional Systems and Signal Processing, 2017, 28, 305-314.	2.6	8
15	Almost Tight Spectral Graph Wavelets With Polynomial Filters. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 812-824.	10.8	11
16	Bipartite Graph Filter Banks: Polyphase Analysis and Generalization. IEEE Transactions on Signal Processing, 2017, 65, 4833-4846.	5.3	16
17	Design of orthogonal filterbanks with rational coefficients using Grobner bases. , 2017, , .		4
18	Biorthogonal filter banks constructed from four halfband filters. , 2016, , .		3

#	Article	IF	Citations
19	Optimization of a generalized radial-aortic transfer function using parametric techniques. Computers in Biology and Medicine, 2016, 77, 206-213.	7.0	5
20	Graph QMF with flatness constraints. , 2015, , .		5
21	Application of dual tree complex wavelet transform in tandem mass spectrometry. Computers in Biology and Medicine, 2015, 63, 36-41.	7.0	3
22	Design of Near Orthogonal Graph Filter Banks. IEEE Signal Processing Letters, 2015, 22, 701-704.	3.6	38
23	A class of rational coefficients biorthogonal Hilbertâ€pairs. International Journal of Circuit Theory and Applications, 2015, 43, 887-899.	2.0	0
24	Orthogonal Wavelet Filters with Minimum RMS Bandwidth. IEEE Signal Processing Letters, 2014, 21, 819-823.	3.6	7
25	Symmetric Self-Hilbertian Wavelets via Orthogonal Lattice Optimization. IEEE Signal Processing Letters, 2012, 19, 387-390.	3.6	3
26	On the aliasing effect of the finer directional wavelet transform. , 2012, , .		3
27	New Techniques for Rationalizing Orthogonal and Biorthogonal Wavelet Filter Coefficients. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 628-637.	5.4	23
28	Design of Almost Symmetric Orthogonal Wavelet Filter Bank Via Direct Optimization. IEEE Transactions on Image Processing, 2012, 21, 2474-2480.	9.8	15
29	On Hilbert-pairs from non-minimum phase Daubechies filters. , 2010, , .		0
30	A New Approach to the Common-Factor Design Technique for Hilbert-Pair of Wavelets. IEEE Signal Processing Letters, 2010, 17, 969-972.	3.6	9
31	Comments on â€œDesign of Halfband Filters for Orthogonal Wavelets Via Sum of Squares Decompositionâ€. IEEE Signal Processing Letters, 2009, 16, 109-111.	3.6	5
32	Hilbert Pair of Orthogonal Wavelet Bases: Revisiting the Condition. IEEE Transactions on Signal Processing, 2008, 56, 1716-1721.	5.3	9
33	Daubechies Wavelets as Approximate Hilbert-Pairs?. IEEE Signal Processing Letters, 2008, 15, 57-60.	3.6	8
34	ETHFB: A New Class of Even-Length Biorthogonal Wavelet Filters for Hilbert Pair Design. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 1580-1588.	5.4	13
35	Designing Hilbert-Pair of wavelets: Recent progress and future trends. , 2007, , .		11
36	An FFT-Based Method for Blind Identification of FIR SIMO Channels. IEEE Signal Processing Letters, 2007, 14, 437-440.	3.6	10

#	Article	IF	Citations
37	A Fast Watermarking System for H.264/AVC Video. , 2006, , .		25
38	Optimizing the FBI Fingerprint Compression Algorithm for BLACKFIN Processor. , 2005, , .		0
39	State-dependent vector hybrid linear and nonlinear ARMA modeling: Theory. Circuits, Systems, and Signal Processing, 2001, 20, 551-574.	2.0	4
40	State-dependent vector hybrid linear and nonlinear ARMA modeling: Applications. Circuits, Systems, and Signal Processing, 2001, 20, 575-597.	2.0	4