Ahmet Hamdi Kayran

List of Publications by Year
in descending order

68 papers	1,176 citations	1040056 9 h-index	434195 31 g-index
68 all docs	68 docs citations	68 times ranked	736 citing authors

#	Article	IF	Citations
1	On Feasibility of Interference Alignment in MIMO Interference Networks. IEEE Transactions on Signal Processing, 2010, 58, 4771-4782.	5.3	660
2	Feasibility Conditions for Interference Alignment. , 2009, , .		115
3	Design of recursive and nonrecursive fan filters with complex transformations. IEEE Transactions on Circuits and Systems, 1983, 30, 849-857.	0.9	56
4	Lattice parameter autoregressive modeling of two-dimensional fields--Part I: The quarter-plane case. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1984, 32, 872-885.	2.0	55
5	Two-dimensional orthogonal lattice structures for autoregressive modeling of random fields. IEEE Transactions on Signal Processing, 1996, 44, 963-978.	5.3	32
6	ARMA model parameter estimation based on the equivalent MA approach. , 2006, 16, 670-681.		28
7	An improved 2-D lattice filter and its entropy relations. Signal Processing, 1992, 28, 1-24.	3.7	18
8	Estimation of 2-D ARMA model parameters by using equivalent AR approach. Journal of the Franklin Institute, 2005, 342, 39-67.	3.4	17
9	Optimum Asymmetric Half-Plane Autoregressive Lattice Parameter Modeling of 2-D Fields. IEEE Transactions on Signal Processing, 2004, 52, 807-819.	5.3	16
10	Optimum quarter-plane autoregressive modeling of 2-D fields using four-field lattice approach. IEEE Transactions on Signal Processing, 1997, 45, 2363-2373.	5.3	14
11	Adaptive Volterra filtering with complete lattice orthogonalization. IEEE Transactions on Signal Processing, 1996, 44, 2092-2098.	5.3	12
12	Comments on least-square inverse polynomials and a counterexample for Jury's conjecture. Electronics Letters, 1980, 16, 795.	1.0	9
13	Further improved 2-D lattice filter structure employing missing reflection coefficients. Circuits, Systems, and Signal Processing, 1995, 14, 473-494.	2.0	8
14	Adaptive Volterra channel equalisation with lattice orthogonalisation. IET Communications, 1998, 145, 109.	1.0	8
15	Super resolution image reconstruction from low resolution aliased images. , 2008, , .		8
16	A New Training Protocol for Channel State Estimation in Wireless Relay Networks. IEEE Transactions on Signal Processing, 2010, 58, 5950-5955.	5.3	8
17	New Efficient 2-D Lattice Structures for General Autoregressive Modeling of Random Fields. IEEE Transactions on Signal Processing, 2014, 62, 1590-1602.	5.3	8
18	Iterative maximum entropy power spectrum estimation for multirate systems. AEU - International Journal of Electronics and Communications, 2010, 64, 93-98.	2.9	7

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19	2D ARMA lattice modelling using two-channel AR lattice approach. Electronics Letters, 1996, 32, 1434.	1.0	6
20	2-D data extrapolation for high resolution radar imaging using autoregressive lattice modelling. IET Radar, Sonar & Navigation, 2001, 148, 277.	2.1	6
21	Comparison of iterative sparse recovery algorithms. , 2011, , .		6
22	Superresolution ISAR imaging using 2-D autoregressive lattice filters. Microwave and Optical Technology Letters, 2002, 32, 81-85.	1.4	5
23	A novel LMS-BLM algorithm for AF relays based cooperative wireless networks. AEU - International Journal of Electronics and Communications, 2016, 70, 1480-1488.	2.9	5
24	Modified stabilisation technique for 2-dimensional recursive digital filter design. IEE Proceedings, Part G: Electronic Circuits and Systems, 1981, 128, 77.	0.2	5
25	Design of 2-D recursive filters with asymmetric half-plane lattice modelling. IEE Proceedings, Part G: Circuits, Devices and Systems, 1990, 137, 427.	0.2	4
26	Two-Dimensional Schur Algorithm. Multidimensional Systems and Signal Processing, 1998, 9, 7-37.	2.6	4
27	Nonlinear System Identification Using Deterministic Multilevel Sequences. Circuits, Systems, and Signal Processing, 2005, 24, 151-181.	2.0	4
28	ARMA-cepstrum Recursion Algorithm for the Estimation of the MA Parameters of 2-D ARMA Models. Multidimensional Systems and Signal Processing, 2005, 16, 397-415.	2.6	4
29	Adaptive multichannel decision feedback equalization for volterra type nonlinear communication channels. AEU - International Journal of Electronics and Communications, 2008, 62, 430-437.	2.9	4
30	Maximum Entropy Power Spectrum Estimation for 2-D Multirate Systems. Circuits, Systems, and Signal Processing, 2012, 31, 271-281.	2.0	4
31	2D FIR Wiener filter realisation using orthogonal lattice structures. Electronics Letters, 2000, 36, 1078.	1.0	3
32	Decision feedback equalisation with complete lattice orthogonalisation. Electronics Letters, 2001, 37, 923.	1.0	3
33	Computation of the exact cramer-rao lower bound for 2-D ARMA parameter Estimation-I: the quarter-plane case. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 23-27.	2.2	3
34	Stable quarter-plane 2-D lattice filters. Electronics Letters, 1990, 26, 806.	1.0	2
35	2D Schur algorithm using a new generator matrix. Electronics Letters, 1996, 32, 2044.	1.0	2
36	2D maximum likelihood spectrum estimation using orthogonal 2D lattice filters. Electronics Letters, 1996, 32, 1339.	1.0	2

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37	Improved 2D joint process lattice for adaptive restoration of images. Electronics Letters, 1998, 34, 350.	1.0	2
38	Volterra model based decision feedback equalisation with lattice orthogonalisation. Electronics Letters, 2003, 39, 477.	1.0	2
39	Matrix-Based Computation of the Exact Cramer-Rao Bound for the ARMA Parameter Estimation Realized with Relatively Short Data Records. Frequenz, 2004, 58, .	0.9	2
40	Volterra kernel estimation for nonlinear communication channels using deterministic sequences. AEU - International Journal of Electronics and Communications, 2005, 59, 118-127.	2.9	2
41	Optimization of FIR Filters Synthesized Using the Generalized One-Stage Frequency-Response Masking Approach. , 2006, , .		2
42	Stationary wavelet transform for fault detection in rotating machinery. , 2007, , .		2
43	Adaptive multirate signal estimation with lattice orthogonalization. , 2009, , .		2
44	Spectrum estimation using new efficient 2-D AR lattice modeling of random fields. , 2013, , .		2
45	Decimation technique for optimal data transfer in one- and two-dimensional FIR digital-filter implementations. IEE Proceedings, Part G: Electronic Circuits and Systems, 1984, 131, 86.	0.2	1
46	Satellite channel identification with lattice orthogonalisation. Electronics Letters, 1996, 32, 302.	1.0	1
47	Adaptive identification and equalization of magnetic recording channels. European Transactions on Telecommunications, 1998, 9, 203-208.	1.2	1
48	2D ARMA Parameter Identification Using a Hybrid Lattice Design. , 0, , .		1
49	A compressive sensing framework for multirate signal estimation. , 2010, , .		1
50	Generalized 2D lattice structure for causal and noncausal modeling of random fields. , 2011, , .		1
51	BLM detection in AF based relay networks. , 2015, , .		1
52	Detection of Marine Noise Radars With Spectral Kurtosis Method. IEEE Aerospace and Electronic Systems Magazine, 2020, 35, 22-31.	1.3	1
53	Identification of nonlinear magnetic channels with lattice orthogonalisation. Electronics Letters, 1997, 33, 376.	1.0	1
54	Stability test for two-dimensional recursive digital filters using inner determinants. Electronics Letters, 1981, 17, 67.	1.0	0

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55	Simple design technique for inherently stable fan filters. Electronics Letters, 1982, 18, 127.	1.0	0
56	Some properties of multidimensional sampling rate conversion. Electronics Letters, 1982, 18, 321.	1.0	0
57	Efficient positive coefficient algorithm for image processing. Electronics Letters, 1983, 19, 324.	1.0	0
58	Superresolution ISAR imaging by 2-D complex asymmetric half-plane lattice predictors. , 0, , .		0
59	Two-dimensional ARMA parameter identification with two-channel AR lattice approach. , 0, , .		0
60	Location dependent and rotated group space-time block codes. , 0, , .		0
61	Lattice-Ladder Structure For 2D ARMA Filters. , 0, , .		0
62	Simultaneous identification of image and blur parameters with the 2-D hybrid lattice structure. , 0, , .		0
63	Performance analysis of maximum likelihood CFAR detection for Gaussian mixture type clutter. , 2007, , .		0
64	Implementation aspects for interference alignment. , 2015, , .		0
65	LMS-BLM receiver in AF based cooperative relay networks. , 2016, , .		0
66	Fully Orthogonal 2-D Lattice Structures for Quarter-Plane and Asymmetric Half-Plane Autoregressive Modeling of Random Fields. IEEE Transactions on Signal Processing, 2019, 67, 4507-4520.	5.3	0
67	On Analysis of Signal Detection in Relays Networks over Time-Varying Rayleigh Channels. , 2019, , .		0
68	ROC Analysis of BLM Detector in AF Relays Based Cooperative Wireless Networks. DEStech Transactions on Environment Energy and Earth Science, 2016, , .	0.0	0