

Panajotis Agathoklis

List of Publications by Year in descending order

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106
papers

1,149
citations

567281

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h-index

477307

29
g-index

106
all docs

106
docs citations

106
times ranked

440
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability analysis of 2D discrete and continuous state-space systems. IET Control Theory and Applications, 2022, 16, 273-282.	2.1	7
2	On the Dynamic Response of the Ideal Paraboloidal Reflector. IEEE Access, 2022, 10, 6899-6908.	4.2	0
3	Algebraic Necessary and Sufficient Conditions for Testing Stability of 2-D Linear Systems. IEEE Transactions on Automatic Control, 2021, 66, 1825-1831.	5.7	7
4	Multi-Volumetric Refocusing of Light Fields. IEEE Signal Processing Letters, 2021, 28, 31-35.	3.6	21
5	Real-Time Light Field Signal Processing Using 4D/5D Linear Digital Filter FPGA Circuits. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2735-2741.	3.0	8
6	Improved Design Method for Nearly Linear-Phase IIR Filters Using Constrained Optimization. Journal of Circuits, Systems and Computers, 2021, 30, 2150207.	1.5	3
7	Improving the Attenuation of Moving Interfering Objects in Videos Using Shifted-Velocity Filtering. , 2021, , .		1
8	Light field editing in the gradient domain. IET Image Processing, 2021, 15, 1072-1082.	2.5	1
9	Multi Depth-Velocity Filters for Enhancing Multiple Moving Objects in 5-D Light Field Videos. , 2020, , .		1
10	Stability Testing of 2D Filters Based on Tschebyscheff Polynomials and Generalized Eigenvalues. , 2020, , .		5
11	A 3-D Sparse FIR Frustum Filter for Enhancing Broadband Plane Waves. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 497-501.	3.0	3
12	High Performance Implementation of Nested Array Beamformer for Wideband Radar Applications. , 2019, , .		0
13	Decimator systolic arrays design space exploration for multirate signal processing applications. IET Circuits, Devices and Systems, 2019, 13, 1232-1240.	1.4	1
14	Systolic array design space exploration of interpolators for multi-rate systems. IET Circuits, Devices and Systems, 2019, 13, 1032-1038.	1.4	1
15	Design and Implementation of 5-D IIR Depth Velocity Filters for Light Field Video Processing. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1267-1271.	3.0	10
16	Array signal processing and systems. Multidimensional Systems and Signal Processing, 2018, 29, 467-473.	2.6	17
17	Mixed microwave-digital and multi-rate approach for wideband beamforming applications using 2-D IIR beam filters and nested uniform linear arrays. Multidimensional Systems and Signal Processing, 2018, 29, 703-718.	2.6	4
18	A 4-D Sparse FIR Hyperfan Filter for Volumetric Refocusing of Light Fields by Hard Thresholding. , 2018, , .		14

#	ARTICLE	IF	CITATIONS
19	Network Event Classification for Security of IT Infrastructure. , 2018, , .		0
20	Velocity filtering for attenuating moving artifacts in videos using an ultra-low complexity 3-D linear-phase IIR filter. Multidimensional Systems and Signal Processing, 2017, 28, 597-616.	2.6	5
21	A novel 5-D depth-velocity filter for enhancing noisy light field videos. Multidimensional Systems and Signal Processing, 2017, 28, 353-369.	2.6	14
22	A low-complexity 2-D spatially-interpolated FIR trapezoidal filter for enhancing broadband plane waves. , 2017, , .		11
23	Multidimensional spatio-temporal filters for depth-velocity filtering in light field videos. , 2017, , .		3
24	Five-Dimensional Depth-Velocity Filtering for Enhancing Moving Objects in Light Field Videos. IEEE Transactions on Signal Processing, 2015, 63, 2151-2163.	5.3	41
25	Video editing in the gradient domain using a wavelet based 3-D reconstruction algorithm and an iterative Poisson solver. , 2015, , .		1
26	Implementation and performance analysis of 3-D cone and frustum filters. , 2015, , .		2
27	Enhancing Moving Objects in light field videos using 5-D IIR adaptive depth-velocity filters. , 2015, , .		5
28	A 5-D IIR depth-velocity filter for enhancing objects moving on linear-trajectories in light field videos. , 2015, , .		15
29	A wavelet based method for image reconstruction from gradient data with applications. Multidimensional Systems and Signal Processing, 2015, 26, 717-737.	2.6	16
30	A low-complexity 3D spatio-temporal FIR filter for enhancing linear trajectory signals. , 2014, , .		14
31	Using 1-D Variable Fractional-Delay Filters to Reduce the Computational Complexity of 3-D Broadband Multibeam Beamformers. IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 279-283.	3.0	10
32	Design of optimal wavelets for detecting impulse noise in speech. , 2014, , .		1
33	A METHOD FOR FACE RECOGNITION USING IMAGE REGISTRATION. Journal of Circuits, Systems and Computers, 2011, 20, 1419-1439.	1.5	3
34	A feature-based image registration technique for images of different scale. , 2008, , .		14
35	Performance and computational complexity optimization in configurable hybrid video coding system. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 31-42.	8.3	15
36	A new DOA estimation technique based on subarray beamforming. IEEE Transactions on Signal Processing, 2006, 54, 3279-3290.	5.3	56

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37	A Subspace Multiuser Beamforming Algorithm for the Downlink in Mobile Communications. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 753-757.	2.2	5
38	Analysis of beamformer configurations for DS-CDMA systems. IEEE Transactions on Signal Processing, 2005, 53, 945-956.	5.3	4
39	Design of linear-phase recursive filters by optimization of model reduced non-recursive filters. , 2003, , .		2
40	Comments on "On Hurwitz stable polynomials and strictly positive real transfer functions". IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2001, 48, 129.	0.1	1
41	Design of 3-D Noncausal Filters with Small Roundoff Noise and No Overflow Oscillations. Multidimensional Systems and Signal Processing, 1999, 10, 331-343.	2.6	2
42	Coefficient sensitivity and structure optimization of multidimensional state-space digital filters. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1998, 45, 993-998.	0.1	14
43	On the existence of robust strictly positive real rational functions. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1998, 45, 962-967.	0.1	29
44	Efficient lattice realizations of adaptive IIR algorithms. IEEE Transactions on Signal Processing, 1998, 46, 223-227.	5.3	3
45	New Realization and Implementation of Fixed-Point IIR Digital Filters. Journal of Circuits, Systems and Computers, 1997, 07, 191-209.	1.5	5
46	Stability and the Lyapunov equation for n-dimensional digital systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1997, 44, 614-621.	0.1	22
47	The use of model reduction techniques for designing IIR filters with linear phase in the passband. IEEE Transactions on Signal Processing, 1996, 44, 2396-2404.	5.3	39
48	A note on the orthogonal realization of allpass digital filters and their finite wordlength performance. IEEE Transactions on Signal Processing, 1996, 44, 2616-2619.	5.3	1
49	Comments on "orthogonal realization of first-order allpass filters for two-dimensional signals?". Multidimensional Systems and Signal Processing, 1993, 4, 187-188.	2.6	0
50	Algebraic necessary and sufficient conditions for the stability of 2-D discrete systems. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1993, 40, 251-258.	2.2	30
51	Systolic arrays for implementation of finite memory filters. International Journal of Electronics, 1992, 72, 37-44.	1.4	1
52	Control of the metal rolling process: a multidimensional system approach. Journal of the Franklin Institute, 1992, 329, 317-332.	3.4	20
53	On the Theory of State-Covariance Assignment for Single-Input Linear Discrete Systems. , 1992, , .		2
54	Model reduction of linear discrete systems via weighted impulse response gramians. International Journal of Control, 1991, 53, 129-144.	1.9	43

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55	Algebraic necessary and sufficient conditions for the very strict Hurwitz property of a 2-D polynomial. <i>Multidimensional Systems and Signal Processing</i> , 1991, 2, 45-53.	2.6	19
56	A Sufficient Condition for the Stability of Nonnegative 2-D Interval Discrete Systems. , 1991, , .		0
57	Identification and model reduction from impulse response data. <i>International Journal of Systems Science</i> , 1990, 21, 1541-1552.	5.5	25
58	Model Reduction of Linear Continuous Systems Using Impulse-Response Grammians. , 1990, , .		9
59	Stability and the matrix Lyapunov equation for delay differential systems. <i>International Journal of Control</i> , 1989, 49, 417-432.	1.9	50
60	Conditions for the 2-D characteristic polynomial of a matrix to be very strict Hurwitz. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1989, 37, 1284-1286.	2.0	10
61	Stability and the matrix Lyapunov equation for delay differential systems. <i>International Journal of Control</i> , 1989, 49, 417-432.	1.9	2
62	Control of the Metal Rolling Process: A Multidimensional System Approach. , 1989, , .		4
63	Stability of differential multipass processes. <i>Electronics Letters</i> , 1988, 24, 1016.	1.0	9
64	A note on the frequency-dependent Lyapunov equation. <i>IEEE Transactions on Circuits and Systems</i> , 1987, 34, 974-975.	0.9	3
65	Stability and the matrix Lyapunov equation for discrete 2-dimensional systems. <i>IEEE Transactions on Circuits and Systems</i> , 1986, 33, 261-267.	0.9	198
66	Stability of 2-D digital filters under parameter variations. <i>IEEE Transactions on Circuits and Systems</i> , 1986, 33, 476-482.	0.9	18
67	The elimination of spikes in the magnitude frequency response of 2-D discrete filters by increasing the stability margin. <i>IEEE Transactions on Circuits and Systems</i> , 1985, 32, 451-458.	0.9	11
68	On the various forms and methods of solution of the Lyapunov equation for 2-D discrete systems. , 1985, , .		14
69	Practical-BIBO stability of n-dimensional discrete systems. <i>IEE Proceedings, Part G: Electronic Circuits and Systems</i> , 1983, 130, 236.	0.2	144
70	On (p,q)-Markov covers for 2-D separable denominator systems. , 0, , .		1
71	Quality of service oriented scheduling algorithms for a cross-layer downlink wireless system. , 0, , .		0
72	Flexible triangle search algorithm for block based motion estimation. , 0, , .		1

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73	An algebraic test for asymptotic stability of delay differential systems with commensurate delays. , 0, , .		1
74	Measurement and analysis of defocused point spread functions and optical transfer functions of a microscope. , 0, , .		4
75	Composite algorithms for adaptive IIR filtering using lattice realization. , 0, , .		1
76	An adaptive fuzzy logic controller for steering a hydrographic survey craft to track a straight line. , 0, , .		0
77	New IIR digital filter realizations using residue-feedback. , 0, , .		1
78	Extension of the equation error scheme for alternative realizations of adaptive IIR filters. , 0, , .		0
79	Lossless compression of bathymetric data using an improved nonlinear discrete wavelet transform. , 0, , .		1
80	Adaptive motion estimation for efficient video compression. , 0, , .		3
81	A stable RLC parameterization of the direct structure for adaptive IIR filters. , 0, , .		0
82	On the composite squared error algorithm for adaptive IIR filters. , 0, , .		2
83	A new motion-estimation technique for efficient video compression. , 0, , .		0
84	Compression of color images using mixed transform techniques. , 0, , .		0
85	Lossless compression of color images using an improved integer-based nonlinear wavelet transform. , 0, , .		8
86	Construction of robust SPR functions. , 0, , .		0
87	Wavelet-based compression of speech signals on the TMS320C30 digital signal processor. , 0, , .		2
88	Image compression using a mixed-transform technique and vector quantization. , 0, , .		0
89	A new fast block matching algorithm using the simplex technique. , 0, , .		6
90	Automatic outlier detection in multibeam data using median filtering. , 0, , .		4

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91	Design of linear phase IIR filters via weighted least-squares approximation. , 0, , .		8
92	Analysis of MMSE beamformer for DS-CDMA systems. , 0, , .		2
93	Analysis of beamformer configurations for DS-CDMA systems. , 0, , .		1
94	A wavelet-based blind and readable image watermarking algorithm. , 0, , .		2
95	Performance and computational complexity optimization in a configurable video coding system. , 0, , .		3
96	A new downlink beamforming and power control scheme for wireless mobile communications. , 0, , .		0
97	A new high-resolution-and-capacity DOA estimation technique based on subarray beamforming. , 0, , .		2
98	Performance evaluation of uplink transmission using space time block coding and beamforming. , 0, , .		3
99	A subspace multiuser beamforming algorithm for downlink in mobile communication systems. , 0, , .		1
100	A Feature-based Image Normalization Technique for Handling Geometric Distortions. , 0, , .		2
101	Multiuser scheduling for downlink in multi-antenna wireless systems. , 0, , .		5
102	Pilot-Aided DOA Estimation for CDMA Communication Systems. , 0, , .		1
103	Capacity analysis of a cross layer downlink model in the presence of fading and interference. , 0, , .		0
104	Automatic and robust image registration using feature points extraction and zernike moments invariants. , 0, , .		4
105	The effect of noise, fading and interference on the performance of scheduling algorithms in a cross-layer downlink model. , 0, , .		0
106	An FPGA implementation of the flexible triangle search algorithm for block based motion estimation. , 0, , .		11