

Thrasyvoulos N Pappas

List of Publications by Year in descending order

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100
papers

2,436
citations

331670

21
h-index

330143

37
g-index

100
all docs

100
docs citations

100
times ranked

1181
citing authors

#	ARTICLE	IF	CITATIONS
1	Human Skin Gloss Perception Based on Texture Statistics. IEEE Transactions on Image Processing, 2021, 30, 3610-3622.	9.8	3
2	Hierarchical Lossy Bilevel Image Compression Based on Cutset Sampling. IEEE Transactions on Image Processing, 2021, 30, 1527-1541.	9.8	4
3	MAP Interpolation of an Ising Image Block. Advances in Intelligent Systems and Computing, 2020, , 237-256.	0.6	0
4	Structural Texture Similarity for Material Recognition. , 2019, , .		2
5	Assessing gloss perception of human facial skin across subject. IS&T International Symposium on Electronic Imaging, 2018, 2018, 1-6.	0.4	0
6	Determining the Influence of Image-based Cues on Human Skin Gloss Perception. IS&T International Symposium on Electronic Imaging, 2017, 2017, 195-202.	0.4	1
7	Perceiving Graphical and Pictorial Information via Hearing and Touch. IEEE Transactions on Multimedia, 2016, 18, 2432-2445.	7.2	7
8	A hybrid Markov random field model for bilevel cutset reconstruction. , 2016, , .		1
9	Generalized k-level cutset sampling and reconstruction. , 2016, , .		2
10	Pattern-based k-level cutset reconstruction. , 2015, , .		3
11	Building structural similarity database for metric learning. , 2015, , .		1
12	Effects of contrast adjustment on visual gloss of natural textures. , 2015, , .		0
13	Effective and efficient subjective testing of texture similarity metrics. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 329.	1.5	10
14	Improved side matching for matched-texture coding. , 2014, , .		2
15	Lossy Cutset Coding of Bilevel Images Based on Markov Random Fields. IEEE Transactions on Image Processing, 2014, 23, 1652-1665.	9.8	12
16	Subjective similarity evaluation for scenic bilevel images. , 2014, , .		4
17	An adaptive lighting correction method for matched-texture coding. , 2014, , .		6
18	Structural texture similarity metric based on intra-class variances. , 2014, , .		4

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19	Roughness vs. contrast in natural textures. Proceedings of SPIE, 2014, , .	0.8	0
20	Image Analysis: Focus on Texture Similarity. Proceedings of the IEEE, 2013, 101, 2044-2057.	21.3	24
21	Structural Texture Similarity Metrics for Image Analysis and Retrieval. IEEE Transactions on Image Processing, 2013, 22, 2545-2558.	9.8	102
22	The rough side of texture: texture analysis through the lens of HVEI. , 2013, , .		6
23	Local radius index - a new texture similarity feature. , 2013, , .		13
24	Image reconstruction from a Manhattan grid via piecewise plane fitting and Gaussian Markov random fields. , 2012, , .		8
25	Subjective and objective texture similarity for image compression. , 2012, , .		8
26	Matched-texture coding for structurally lossless compression. , 2012, , .		11
27	Hierarchical bilevel image compression based on cutset sampling. , 2012, , .		6
28	Acoustic-tactile rendering of visual information. Proceedings of SPIE, 2012, , .	0.8	1
29	A new subjective procedure for evaluation and development of texture similarity metrics. , 2011, , .		6
30	Hybrid light coding for fast and high-accuracy shape acquisition. , 2011, , .		0
31	3D surface registration using Z-SIFT. , 2011, , .		4
32	Adaptive user interfaces for relating high-level concepts to low-level photographic parameters. Proceedings of SPIE, 2011, , .	0.8	1
33	Perceiving graphical and pictorial information via touch and hearing. , 2011, , .		1
34	Design of benchmark imagery for validating facility annotation algorithms. , 2011, , .		1
35	Cutset sampling and reconstruction of images. , 2011, , .		9
36	New Challenges for Image Processing Research. IEEE Transactions on Image Processing, 2011, 20, 3321-3321.	9.8	0

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37	Subband analysis and synthesis of real-world textures for objective and subjective determination of roughness. , 2010, , .		2
38	Image analysis and compression: renewed focus on texture. Proceedings of SPIE, 2010, , .	0.8	15
39	An adaptive clustering and chrominance-based merging approach for image segmentation and abstraction. , 2010, , .		5
40	Structural similarity metrics for texture analysis and retrieval. , 2009, , .		49
41	Classifying paintings by artistic genre: An analysis of features & classifiers. , 2009, , .		61
42	Roughness in sound and vision. , 2009, , .		11
43	Perceptual dimensions for a dynamic tactile display. , 2009, , .		7
44	Image Quality Assessment. , 2009, , 553-595.		24
45	Introduction to the Issue on Visual Media Quality Assessment. IEEE Journal on Selected Topics in Signal Processing, 2009, 3, 189-192.	10.8	41
46	Subjective Evaluation of Spatial Resolution and Quantization Noise Tradeoffs. IEEE Transactions on Image Processing, 2009, 18, 495-508.	9.8	17
47	Perceptual similarity metrics for retrieval of natural textures. , 2009, , .		8
48	Resource Allocation for Downlink Multiuser Video Transmission Over Wireless Lossy Networks. IEEE Transactions on Image Processing, 2008, 17, 1663-1671.	9.8	65
49	Structural Similarity Quality Metrics in a Coding Context: Exploring the Space of Realistic Distortions. IEEE Transactions on Image Processing, 2008, 17, 1261-1273.	9.8	126
50	Image spam hunter. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	28
51	Structural texture similarity metrics for retrieval applications. , 2008, , .		28
52	Structure-preserving properties of bilevel image compression. , 2008, , .		6
53	Resource Allocation for Downlink Multiuser Video Transmission Over Wireless Lossy Networks. , 2007, , .		1
54	Using Structural Similarity Quality Metrics to Evaluate Image Compression Techniques. , 2007, , .		2

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55	Spatiotemporal Algorithm for Background Subtraction. , 2007, , .		13
56	Content-Aware Resource Allocation for Scalable Video Transmission to Multiple Users Over a Wireless Network. , 2007, , .		4
57	Analysis of segment statistics for semantic classification of natural images. , 2007, , .		3
58	Lossy Compression of Bilevel Images Based on Markov Random Fields. , 2007, , .		25
59	Perceptually based techniques for image segmentation and semantic classification. , 2007, 45, 44-51.		18
60	Content-aware resource allocation and packet scheduling for video transmission over wireless networks. IEEE Journal on Selected Areas in Communications, 2007, 25, 749-759.	14.0	129
61	Structural similarity quality metrics in a coding context: exploring the space of realistic distortions. , 2006, , .		9
62	Rate-distortion optimized hybrid error control for real-time packetized video transmission. IEEE Transactions on Image Processing, 2006, 15, 40-53.	9.8	67
63	Subjective Image Quality Tradeoffs Between Spatial Resolution and Quantization Noise. , 2006, , .		0
64	VAPOR: variance-aware per-pixel optimal resource allocation. IEEE Transactions on Image Processing, 2006, 15, 289-299.	9.8	21
65	Perceptual Feature Selection for Semantic Image Classification. , 2006, , .		5
66	Energy efficient video summarization and transmission over a slow fading wireless channel. , 2005, , .		1
67	MPEG-4 outer-inner lip FAP interpolation. , 2005, , .		0
68	Joint source-channel coding and power adaptation for energy efficient wireless video communications. Signal Processing: Image Communication, 2005, 20, 371-387.	3.2	15
69	Joint source coding and packet classification for real-time video transmission over differentiated services networks. IEEE Transactions on Multimedia, 2005, 7, 716-726.	7.2	28
70	Adaptive perceptual color-texture image segmentation. IEEE Transactions on Image Processing, 2005, 14, 1524-1536.	9.8	153
71	Perceptual Criteria for Image Quality Evaluation. , 2005, , 939-959.		129
72	Life sciences - DNA computing from a signal processing viewpoint. IEEE Signal Processing Magazine, 2004, 21, 100-106.	5.6	16

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73	How can DNA computing be applied to digital signal processing?. IEEE Signal Processing Magazine, 2004, 21, 57-61.	5.6	29
74	Motion-compensated wavelet video coding using adaptive mode selection. , 2004, 5308, 1362.		0
75	Quality metrics for measuring end-to-end distortion in packet-switched video communication systems. , 2004, 5292, 162.		0
76	Joint source coding and data rate adaptation for energy efficient wireless video streaming. IEEE Journal on Selected Areas in Communications, 2003, 21, 1710-1720.	14.0	74
77	An efficient rate-distortion optimal shape coding approach utilizing a skeleton-based decomposition. IEEE Transactions on Image Processing, 2003, 12, 1181-1193.	9.8	14
78	Perceptual color and spatial texture features for segmentation. , 2003, , .		5
79	Preprocessing of compressed digital video based on perceptual quality metrics. , 2003, 5007, 137.		1
80	Joint source coding and transmission power management for energy efficient wireless video communications. IEEE Transactions on Circuits and Systems for Video Technology, 2002, 12, 411-424.	8.3	121
81	<title>Perceptual coders and perceptual metrics</title>. , 2001, , .		11
82	Human vision and electronic imaging. Journal of Electronic Imaging, 2001, 10, 10.	0.9	22
83	Special Section on Human Vision and Electronic Imaging. Journal of Electronic Imaging, 2001, 10, 8.	0.9	0
84	Least-squares model-based halftoning. IEEE Transactions on Image Processing, 1999, 8, 1102-1116.	9.8	72
85	<title>Joint block-based video source/channel coding for packet-switched networks</title>. , 1998, 3309, 124.		28
86	<title>Building bridges between human vision and electronic imaging: a ten-year retrospective</title>. , 1998, 3299, 2.		3
87	Model-based halftoning of color images. IEEE Transactions on Image Processing, 1997, 6, 1014-1024.	9.8	36
88	One-dimensional least-squares model-based halftoning. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 1707.	1.5	9
89	Digital halftoning: A model-based perspective. International Journal of Imaging Systems and Technology, 1996, 7, 110-120.	4.1	4
90	Printer models and error diffusion. IEEE Transactions on Image Processing, 1995, 4, 66-80.	9.8	63

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91	Perceptual coding of images for halftone display. IEEE Transactions on Image Processing, 1994, 3, 341-354.	9.8	24
92	<title>Blue noise and model-based halftoning</title>. , 1994, 2179, 182.		11
93	Measurement of printer parameters for model-based halftoning. Journal of Electronic Imaging, 1993, 2, 193.	0.9	55
94	<title>Measurement of printer parameters for model-based halftoning</title>. , 1993, 1913, 355.		0
95	Least-squares model-based halftoning. , 1992, 1666, 165.		48
96	<title>Model-based halftoning</title>. , 1991, , .		32
97	Adaptive Thresholding and Sketch-Coding of Grey Level Images. Proceedings of SPIE, 1989, 1199, 1003.	0.8	2
98	A new method for estimation of coronary artery dimensions in angiograms. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1988, 36, 1501-1513.	2.0	69
99	Estimation Of Coronary Artery Boundaries In Angiograms. Proceedings of SPIE, 1984, , .	0.8	11
100	On the numerical solution of the discrete-time algebraic Riccati equation. IEEE Transactions on Automatic Control, 1980, 25, 631-641.	5.7	297