

# 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	On the numerical solution of the discrete-time algebraic Riccati equation. IEEE Transactions on Automatic Control, 1980, 25, 631-641.	5.7	297
2	Adaptive perceptual color-texture image segmentation. IEEE Transactions on Image Processing, 2005, 14, 1524-1536.	9.8	153
3	Perceptual Criteria for Image Quality Evaluation. , 2005, , 939-959.		129
4	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
5	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
6	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
7	Structural Texture Similarity Metrics for Image Analysis and Retrieval. IEEE Transactions on Image Processing, 2013, 22, 2545-2558.	9.8	102
8	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
9	Least-squares model-based halftoning. IEEE Transactions on Image Processing, 1999, 8, 1102-1116.	9.8	72
10	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
11	Rate-distortion optimized hybrid error control for real-time packetized video transmission. IEEE Transactions on Image Processing, 2006, 15, 40-53.	9.8	67
12	Resource Allocation for Downlink Multiuser Video Transmission Over Wireless Lossy Networks. IEEE Transactions on Image Processing, 2008, 17, 1663-1671.	9.8	65
13	Printer models and error diffusion. IEEE Transactions on Image Processing, 1995, 4, 66-80.	9.8	63
14	Classifying paintings by artistic genre: An analysis of features & classifiers. , 2009, , .		61
15	Measurement of printer parameters for model-based halftoning. Journal of Electronic Imaging, 1993, 2, 193.	0.9	55
16	Structural similarity metrics for texture analysis and retrieval. , 2009, , .		49
17	Least-squares model-based halftoning. , 1992, 1666, 165.		48
18	Introduction to the Issue on Visual Media Quality Assessment. IEEE Journal on Selected Topics in Signal Processing, 2009, 3, 189-192.	10.8	41

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19	Model-based halftoning of color images. IEEE Transactions on Image Processing, 1997, 6, 1014-1024.	9.8	36
20	<title>Model-based halftoning</title>. , 1991, , .		32
21	How can DNA computing be applied to digital signal processing?. IEEE Signal Processing Magazine, 2004, 21, 57-61.	5.6	29
22	<title>Joint block-based video source/channel coding for packet-switched networks</title>. , 1998, 3309, 124.		28
23	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
24	Image spam hunter. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	28
25	Structural texture similarity metrics for retrieval applications. , 2008, , .		28
26	Lossy Compression of Bilevel Images Based on Markov Random Fields. , 2007, , .		25
27	Perceptual coding of images for halftone display. IEEE Transactions on Image Processing, 1994, 3, 341-354.	9.8	24
28	Image Quality Assessment. , 2009, , 553-595.		24
29	Image Analysis: Focus on Texture Similarity. Proceedings of the IEEE, 2013, 101, 2044-2057.	21.3	24
30	Human vision and electronic imaging. Journal of Electronic Imaging, 2001, 10, 10.	0.9	22
31	VAPOR: variance-aware per-pixel optimal resource allocation. IEEE Transactions on Image Processing, 2006, 15, 289-299.	9.8	21
32	Perceptually based techniques for image segmentation and semantic classification. , 2007, 45, 44-51.		18
33	Subjective Evaluation of Spatial Resolution and Quantization Noise Tradeoffs. IEEE Transactions on Image Processing, 2009, 18, 495-508.	9.8	17
34	Life sciences - DNA computing from a signal processing viewpoint. IEEE Signal Processing Magazine, 2004, 21, 100-106.	5.6	16
35	Joint source-channel coding and power adaptation for energy efficient wireless video communications. Signal Processing: Image Communication, 2005, 20, 371-387.	3.2	15
36	Image analysis and compression: renewed focus on texture. Proceedings of SPIE, 2010, , .	0.8	15

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37	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
38	Spatiotemporal Algorithm for Background Subtraction. , 2007, , .		13
39	Local radius index - a new texture similarity feature. , 2013, , .		13
40	Lossy Cutset Coding of Bilevel Images Based on Markov Random Fields. IEEE Transactions on Image Processing, 2014, 23, 1652-1665.	9.8	12
41	Estimation Of Coronary Artery Boundaries In Angiograms. Proceedings of SPIE, 1984, , .	0.8	11
42	<title>Blue noise and model-based halftoning</title>. , 1994, 2179, 182.		11
43	<title>Perceptual coders and perceptual metrics</title>. , 2001, , .		11
44	Roughness in sound and vision. , 2009, , .		11
45	Matched-texture coding for structurally lossless compression. , 2012, , .		11
46	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
47	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
48	Structural similarity quality metrics in a coding context: exploring the space of realistic distortions. , 2006, , .		9
49	Cutset sampling and reconstruction of images. , 2011, , .		9
50	Perceptual similarity metrics for retrieval of natural textures. , 2009, , .		8
51	Image reconstruction from a Manhattan grid via piecewise plane fitting and Gaussian Markov random fields. , 2012, , .		8
52	Subjective and objective texture similarity for image compression. , 2012, , .		8
53	Perceptual dimensions for a dynamic tactile display. , 2009, , .		7
54	Perceiving Graphical and Pictorial Information via Hearing and Touch. IEEE Transactions on Multimedia, 2016, 18, 2432-2445.	7.2	7

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55	Structure-preserving properties of bilevel image compression. , 2008, , .		6
56	A new subjective procedure for evaluation and development of texture similarity metrics. , 2011, , .		6
57	Hierarchical bilevel image compression based on cutset sampling. , 2012, , .		6
58	The rough side of texture: texture analysis through the lens of HVEL. , 2013, , .		6
59	An adaptive lighting correction method for matched-texture coding. , 2014, , .		6
60	Perceptual color and spatial texture features for segmentation. , 2003, , .		5
61	Perceptual Feature Selection for Semantic Image Classification. , 2006, , .		5
62	An adaptive clustering and chrominance-based merging approach for image segmentation and abstraction. , 2010, , .		5
63	Digital halftoning: A model-based perspective. International Journal of Imaging Systems and Technology, 1996, 7, 110-120.	4.1	4
64	Content-Aware Resource Allocation for Scalable Video Transmission to Multiple Users Over a Wireless Network. , 2007, , .		4
65	3D surface registration using Z-SIFT. , 2011, , .		4
66	Subjective similarity evaluation for scenic bilevel images. , 2014, , .		4
67	Structural texture similarity metric based on intra-class variances. , 2014, , .		4
68	Hierarchical Lossy Bilevel Image Compression Based on Cutset Sampling. IEEE Transactions on Image Processing, 2021, 30, 1527-1541.	9.8	4
69	<title>Building bridges between human vision and electronic imaging: a ten-year retrospective</title>. , 1998, 3299, 2.		3
70	Analysis of segment statistics for semantic classification of natural images. , 2007, , .		3
71	Pattern-based k-level cutset reconstruction. , 2015, , .		3
72	Human Skin Gloss Perception Based on Texture Statistics. IEEE Transactions on Image Processing, 2021, 30, 3610-3622.	9.8	3

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73	Adaptive Thresholding and Sketch-Coding of Grey Level Images. Proceedings of SPIE, 1989, 1199, 1003.	0.8	2
74	Using Structural Similarity Quality Metrics to Evaluate Image Compression Techniques. , 2007, , .		2
75	Subband analysis and synthesis of real-world textures for objective and subjective determination of roughness. , 2010, , .		2
76	Improved side matching for matched-texture coding. , 2014, , .		2
77	Generalized k-level cutset sampling and reconstruction. , 2016, , .		2
78	Structural Texture Similarity for Material Recognition. , 2019, , .		2
79	Preprocessing of compressed digital video based on perceptual quality metrics. , 2003, 5007, 137.		1
80	Energy efficient video summarization and transmission over a slow fading wireless channel. , 2005, , .		1
81	Resource Allocation for Downlink Multiuser Video Transmission Over Wireless Lossy Networks. , 2007, , .		1
82	Adaptive user interfaces for relating high-level concepts to low-level photographic parameters. Proceedings of SPIE, 2011, , .	0.8	1
83	Perceiving graphical and pictorial information via touch and hearing. , 2011, , .		1
84	Design of benchmark imagery for validating facility annotation algorithms. , 2011, , .		1
85	Acoustic-tactile rendering of visual information. Proceedings of SPIE, 2012, , .	0.8	1
86	Building structural similarity database for metric learning. , 2015, , .		1
87	A hybrid Markov random field model for bilevel cutset reconstruction. , 2016, , .		1
88	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
89	<title>Measurement of printer parameters for model-based halftoning</title>. , 1993, 1913, 355.		0
90	Special Section on Human Vision and Electronic Imaging. Journal of Electronic Imaging, 2001, 10, 8.	0.9	0

#	ARTICLE	IF	CITATIONS
91	Motion-compensated wavelet video coding using adaptive mode selection. , 2004, 5308, 1362.		0
92	Quality metrics for measuring end-to-end distortion in packet-switched video communication systems. , 2004, 5292, 162.		0
93	MPEG-4 outer-inner lip FAP interpolation. , 2005, , .		0
94	Subjective Image Quality Tradeoffs Between Spatial Resolution and Quantization Noise. , 2006, , .		0
95	Hybrid light coding for fast and high-accuracy shape acquisition. , 2011, , .		0
96	New Challenges for Image Processing Research. IEEE Transactions on Image Processing, 2011, 20, 3321-3321.	9.8	0
97	Roughness vs. contrast in natural textures. Proceedings of SPIE, 2014, , .	0.8	0
98	Effects of contrast adjustment on visual gloss of natural textures. , 2015, , .		0
99	Assessing gloss perception of human facial skin across subject. IS&T International Symposium on Electronic Imaging, 2018, 2018, 1-6.	0.4	0
100	MAP Interpolation of an Ising Image Block. Advances in Intelligent Systems and Computing, 2020, , 237-256.	0.6	0