

# Thrasyvoulos N Pappas

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80  
papers

1,652  
citations

21  
h-index

39  
g-index

100  
ext. papers

1,958  
ext. citations

5.8  
avg, IF

4.39  
L-index

#	Paper	IF	Citations
80	On the numerical solution of the discrete-time algebraic Riccati equation. <i>IEEE Transactions on Automatic Control</i> , <b>1980</b> , 25, 631-641	5.9	226
79	Adaptive perceptual color-texture image segmentation. <i>IEEE Transactions on Image Processing</i> , <b>2005</b> , 14, 1524-36	8.7	106
78	Content-aware resource allocation and packet scheduling for video transmission over wireless networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2007</b> , 25, 749-759	14.2	98
77	Structural similarity quality metrics in a coding context: exploring the space of realistic distortions. <i>IEEE Transactions on Image Processing</i> , <b>2008</b> , 17, 1261-73	8.7	91
76	Joint source coding and transmission power management for energy efficient wireless video communications. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2002</b> , 12, 411-424	6.4	83
75	Structural texture similarity metrics for image analysis and retrieval. <i>IEEE Transactions on Image Processing</i> , <b>2013</b> , 22, 2545-58	8.7	80
74	. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , <b>1988</b> , 36, 1501-1513		58
73	Joint source coding and data rate adaptation for energy efficient wireless video streaming. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2003</b> , 21, 1710-1720	14.2	53
72	Rate-distortion optimized hybrid error control for real-time packetized video transmission. <i>IEEE Transactions on Image Processing</i> , <b>2006</b> , 15, 40-53	8.7	52
71	Perceptual Criteria for Image Quality Evaluation <b>2005</b> , 939-959		52
70	Least-squares model-based halftoning. <i>IEEE Transactions on Image Processing</i> , <b>1999</b> , 8, 1102-16	8.7	51
69	Resource allocation for downlink multiuser video transmission over wireless lossy networks. <i>IEEE Transactions on Image Processing</i> , <b>2008</b> , 17, 1663-71	8.7	48
68	Classifying paintings by artistic genre: An analysis of features & classifiers <b>2009</b> ,		44
67	Printer models and error diffusion. <i>IEEE Transactions on Image Processing</i> , <b>1995</b> , 4, 66-80	8.7	40
66	Measurement of printer parameters for model-based halftoning. <i>Journal of Electronic Imaging</i> , <b>1993</b> , 2, 193	0.7	37
65	Structural similarity metrics for texture analysis and retrieval <b>2009</b> ,		36
64	Introduction to the Issue on Visual Media Quality Assessment. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2009</b> , 3, 189-192	7.5	31

63	Least-squares model-based halftoning <b>1992</b> , 1666, 165		29
62	Model-based halftoning of color images. <i>IEEE Transactions on Image Processing</i> , <b>1997</b> , 6, 1014-24	8.7	25
61	. <i>IEEE Transactions on Multimedia</i> , <b>2005</b> , 7, 716-726	6.6	23
60	How can DNA computing be applied to digital signal processing?. <i>IEEE Signal Processing Magazine</i> , <b>2004</b> , 21, 57-61	9.4	21
59	Joint block-based video source/channel coding for packet-switched networks <b>1998</b> , 3309, 124		19
58	Image Analysis: Focus on Texture Similarity. <i>Proceedings of the IEEE</i> , <b>2013</b> , 101, 2044-2057	14.3	18
57	Model-based halftoning <b>1991</b> ,		18
56	VAPOR: variance-aware per-pixel optimal resource allocation. <i>IEEE Transactions on Image Processing</i> , <b>2006</b> , 15, 289-99	8.7	17
55	Subjective evaluation of spatial resolution and quantization noise tradeoffs. <i>IEEE Transactions on Image Processing</i> , <b>2009</b> , 18, 495-508	8.7	15
54	Lossy Compression of Bilevel Images Based on Markov Random Fields <b>2007</b> ,		15
53	Perceptual coding of images for halftone display. <i>IEEE Transactions on Image Processing</i> , <b>1994</b> , 3, 341-54	8.7	15
52	Image Quality Assessment <b>2009</b> , 553-595		14
51	DNA computing from a signal processing viewpoint. <i>IEEE Signal Processing Magazine</i> , <b>2004</b> , 21, 100-106	9.4	14
50	Human vision and electronic imaging. <i>Journal of Electronic Imaging</i> , <b>2001</b> , 10, 10	0.7	14
49	Perceptually based techniques for image segmentation and semantic classification <b>2007</b> , 45, 44-51		12
48	An efficient rate-distortion optimal shape coding approach utilizing a skeleton-based decomposition. <i>IEEE Transactions on Image Processing</i> , <b>2003</b> , 12, 1181-93	8.7	12
47	Spatiotemporal Algorithm for Background Subtraction <b>2007</b> ,		10
46	Image spam hunter. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , <b>2008</b> ,	1.6	9

45	Joint source-channel coding and power adaptation for energy efficient wireless video communications. <i>Signal Processing: Image Communication</i> , <b>2005</b> , 20, 371-387	2.8	9
44	Local radius index - a new texture similarity feature <b>2013</b> ,		8
43	Blue noise and model-based halftoning <b>1994</b> , 2179, 182		8
42	Lossy cutset coding of bilevel images based on Markov random fields. <i>IEEE Transactions on Image Processing</i> , <b>2014</b> , 23, 1652-65	8.7	7
41	Cutset sampling and reconstruction of images <b>2011</b> ,		7
40	Matched-texture coding for structurally lossless compression <b>2012</b> ,		7
39	Image analysis and compression: renewed focus on texture <b>2010</b> ,		7
38	One-dimensional least-squares model-based halftoning. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>1997</b> , 14, 1707	1.8	7
37	Effective and efficient subjective testing of texture similarity metrics. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2015</b> , 32, 329-42	1.8	6
36	Subjective and objective texture similarity for image compression <b>2012</b> ,		6
35	Estimation Of Coronary Artery Boundaries In Angiograms <b>1984</b> ,		6
34	. <i>IEEE Transactions on Multimedia</i> , <b>2016</b> , 18, 2432-2445	6.6	6
33	An adaptive clustering and chrominance-based merging approach for image segmentation and abstraction <b>2010</b> ,		5
32	Roughness in sound and vision <b>2009</b> ,		5
31	An adaptive lighting correction method for matched-texture coding <b>2014</b> ,		4
30	A new subjective procedure for evaluation and development of texture similarity metrics <b>2011</b> ,		4
29	Perceptual dimensions for a dynamic tactile display <b>2009</b> ,		4
28	Image reconstruction from a Manhattan grid via piecewise plane fitting and Gaussian Markov random fields <b>2012</b> ,		4

27	Hierarchical bilevel image compression based on cutset sampling <b>2012,</b>		4
26	Structural texture similarity metrics for retrieval applications <b>2008,</b>		4
25	Perceptual coders and perceptual metrics <b>2001,</b>		4
24	Subjective similarity evaluation for scenic bilevel images <b>2014,</b>		3
23	<b>2014,</b>		3
22	The rough side of texture: texture analysis through the lens of HVEI <b>2013,</b>		3
21	3D surface registration using Z-SIFT <b>2011,</b>		3
20	Perceptual similarity metrics for retrieval of natural textures <b>2009,</b>		3
19	Structure-preserving properties of bilevel image compression <b>2008,</b>		3
18	Content-Aware Resource Allocation for Scalable Video Transmission to Multiple Users Over a Wireless Network <b>2007,</b>		3
17	Structural similarity quality metrics in a coding context: exploring the space of realistic distortions <b>2006,</b>		3
16	Digital halftoning: A model-based perspective. <i>International Journal of Imaging Systems and Technology</i> , <b>1996</b> , 7, 110-120	2.5	3
15	Structural Texture Similarity for Material Recognition <b>2019,</b>		2
14	Perceptual Feature Selection for Semantic Image Classification <b>2006,</b>		2
13	Using Structural Similarity Quality Metrics to Evaluate Image Compression Techniques <b>2007,</b>		2
12	Building bridges between human vision and electronic imaging: a ten-year retrospective <b>1998,</b> 3299, 2		2
11	Hierarchical Lossy Bilevel Image Compression Based on Cutset Sampling. <i>IEEE Transactions on Image Processing</i> , <b>2021</b> , 30, 1527-1541	8.7	2
10	Determining the Influence of Image-based Cues on Human Skin Gloss Perception. <i>IS&amp;T International Symposium on Electronic Imaging</i> , <b>2017</b> , 2017, 195-202	1	1

9	Acoustic-tactile rendering of visual information <b>2012</b> ,		1
8	Subband analysis and synthesis of real-world textures for objective and subjective determination of roughness <b>2010</b> ,		1
7	Perceptual color and spatial texture features for segmentation <b>2003</b> ,		1
6	Adaptive Thresholding and Sketch-Coding of Grey Level Images <b>1989</b> , 1199, 1003		1
5	Human Skin Gloss Perception Based on Texture Statistics. <i>IEEE Transactions on Image Processing</i> , <b>2021</b> , 30, 3610-3622	8.7	0
4	New challenges for image processing research. <i>IEEE Transactions on Image Processing</i> , <b>2011</b> , 20, 3321	8.7	
3	Motion-compensated wavelet video coding using adaptive mode selection <b>2004</b> , 5308, 1362		
2	MAP Interpolation of an Ising Image Block. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 237-256	0.4	
1	Assessing gloss perception of human facial skin across subject. <i>IS&amp;T International Symposium on Electronic Imaging</i> , <b>2018</b> , 2018, 1-6		1