Thomas J Naughton

List of Publications by Year
in descending order

50 papers	3,343 citations	236925 25 h-index	377865 34 g-index
50 all docs	50 docs citations	50 times ranked	3454 citing authors

#	Article	IF	Citations
1	Compression strategies for digital holograms in biomedical and multimedia applications. , 2022, 3, 1.		7
2	Using traditional glass plate holograms to study visual perception of future digital holographic displays. , 2016, , .		1
3	Heterotic Computing Examples with Optics, Bacteria, and Chemicals. Lecture Notes in Computer Science, 2012, , 198-209.	1.3	4
4	Photonic neural networks. Nature Physics, 2012, 8, 257-259.	16.7	128
5	3D capture, processing, display, and perception with digital holography: results from a European-funded project. , 2011, , .		0
6	Flexible optical encryption with multiple users and multiple security levels. Optics Communications, 2011, 284, 735-739.	2.1	82
7	Visually lossless compression of digital hologram sequences. Proceedings of SPIE, 2010, , .	0.8	14
8	Holographic display of synthetic 3D dynamic scene. 3D Research, 2010, 1, 31.	1.8	6
9	Microparticle characterization using digital holography. Chemical Engineering Science, 2010, 65, 1037-1044.	3.8	62
10	Multi-heuristic dynamic task allocation using genetic algorithms in a heterogeneous distributed system. Journal of Parallel and Distributed Computing, 2010, 70, 758-766.	4.1	85
11	Capture, processing, and display of real-world 3D objects using digital holography. , 2010, , .		3
12	Digital Fresnel hologram watermarking. , 2010, , .		9
13	Numerical reconstruction of digital holograms for conventional 3D display. , 2010, , .		3
14	Displaying digital holograms of real-world objects on a mobile device using tilt-based interaction. , 2010, , .		0
15	Evaluation of perceived quality attributes of digital holograms viewed with a stereoscopic display. , 2010, , .		3
16	Phase in Optical Image Processing. , 2010, , .		0
17	Synthesis and display of dynamic holographic 3D scenes with real-world objects. Optics Express, 2010, 18, 8806.	3.4	118
18	3D perception of numerical hologram reconstructions enhanced by motion and stereo. , 2010, , .		0

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19	Analysis of phase encoding for optical encryption. Optics Communications, 2009, 282, 482-492.	2.1	21
20	Statistical investigation of the double random phase encoding technique. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 2033.	1.5	16
21	Three dimensional digital holographic profiling of micro-fibers. Optics Express, 2009, 17, 2938.	3.4	47
22	Collision in double random phase encoding. Optics Communications, 2008, 281, 5122-5125.	2.1	36
23	Extended focused imaging for digital holograms of macroscopic three-dimensional objects. Applied Optics, 2008, 47, D71.	2.1	66
24	Role of phase key in the double random phase encoding technique: an error analysis. Applied Optics, 2008, 47, 3808.	2.1	35
25	Introducing secure modes of operation for optical encryption. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2608.	1.5	61
26	Low memory distributed reconstruction of large digital holograms. Optics Express, 2008, 16, 1990.	3.4	13
27	Cost function statistical analysis in double random phase encoding. , 2008, , .		0
28	A comparison of wavelet analysis techniques in digital holograms. Proceedings of SPIE, 2008, , .	0.8	4
29	MultiPhyl: a high-throughput phylogenomics webserver using distributed computing. Nucleic Acids Research, 2007, 35, W33-W37.	14.5	59
30	Stereoscopic Viewing of Digital Holograms of Real-World Objects. , 2007, , .		7
31	Analysis of double random phase encryption from a key-space perspective. , 2007, , .		0
32	Depth-independent segmentation of macroscopic three-dimensional objects encoded in single perspectives of digital holograms. Optics Letters, 2007, 32, 1229.	3.3	51
33	Reduction of speckle in digital holography by discrete Fourier filtering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1617.	1.5	119
34	Resistance of the double random phase encryption against various attacks. Optics Express, 2007, 15, 10253.	3.4	443
35	Compression defects in different reconstructions from phase-shifting digital holographic data. Applied Optics, 2007, 46, 4579.	2.1	26
36	Key-space analysis of double random phase encryption technique. Applied Optics, 2007, 46, 6641.	2.1	79

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37	Histogram Approaches for Lossy Compression of Digital Holograms of Three-Dimensional Objects. IEEE Transactions on Image Processing, 2007, 16, 1548-1556.	9.8	49
38	Compression of digital holograms of three-dimensional objects using wavelets. Optics Express, 2006, 14, 2625.	3.4	67
39	A known-plaintext heuristic attack on the Fourier plane encryption algorithm. Optics Express, 2006, 14, 3181.	3.4	213
40	A companding approach for nonuniform quantization of digital holograms of three-dimensional objects. Optics Express, 2006, 14, 5129.	3.4	43
41	Compression of Optically Encrypted Digital Holograms Using Artificial Neural Networks. Journal of Display Technology, 2006, 2, 401-410.	1.2	30
42	Superposition of digital holograms. AIP Conference Proceedings, 2006, , .	0.4	4
43	Measurement of compression defects in phase-shifting digital holographic data. , 2006, , .		7
44	Combined optimal quantization and lossless coding of digital holograms of three-dimensional objects. , 2006, , .		2
45	Cryptanalysis of optical encryption: a heuristic approach. AIP Conference Proceedings, 2006, , .	0.4	0
46	Building Large Phylogenetic Trees on Coarse-Grained Parallel Machines. Algorithmica, 2006, 45, 285-300.	1.3	4
47	Assessment of methods for amino acid matrix selection and their use on empirical data shows that ad hoc assumptions for choice of matrix are not justified. BMC Evolutionary Biology, 2006, 6, 29.	3.2	977
48	Framework for Task Scheduling in Heterogeneous Distributed Computing Using Genetic Algorithms. Artificial Intelligence Review, 2005, 24, 415-429.	15.7	54
49	Efficient compression of Fresnel fields for internet transmission of three-dimensional images. Applied Optics, 2003, 42, 4758.	2.1	90
50	Compression of digital holograms for three-dimensional object reconstruction and recognition. Applied Optics, 2002, 41, 4124.	2.1	195