

Thomas J Naughton

List of Publications by Year in descending order

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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	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. <i>BMC Evolutionary Biology</i> , 2006, 6, 29.	3.2	977
2	Resistance of the double random phase encryption against various attacks. <i>Optics Express</i> , 2007, 15, 10253.	3.4	443
3	A known-plaintext heuristic attack on the Fourier plane encryption algorithm. <i>Optics Express</i> , 2006, 14, 3181.	3.4	213
4	Compression of digital holograms for three-dimensional object reconstruction and recognition. <i>Applied Optics</i> , 2002, 41, 4124.	2.1	195
5	Photonic neural networks. <i>Nature Physics</i> , 2012, 8, 257-259.	16.7	128
6	Reduction of speckle in digital holography by discrete Fourier filtering. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 1617.	1.5	119
7	Synthesis and display of dynamic holographic 3D scenes with real-world objects. <i>Optics Express</i> , 2010, 18, 8806.	3.4	118
8	Efficient compression of Fresnel fields for internet transmission of three-dimensional images. <i>Applied Optics</i> , 2003, 42, 4758.	2.1	90
9	Multi-heuristic dynamic task allocation using genetic algorithms in a heterogeneous distributed system. <i>Journal of Parallel and Distributed Computing</i> , 2010, 70, 758-766.	4.1	85
10	Flexible optical encryption with multiple users and multiple security levels. <i>Optics Communications</i> , 2011, 284, 735-739.	2.1	82
11	Key-space analysis of double random phase encryption technique. <i>Applied Optics</i> , 2007, 46, 6641.	2.1	79
12	Compression of digital holograms of three-dimensional objects using wavelets. <i>Optics Express</i> , 2006, 14, 2625.	3.4	67
13	Extended focused imaging for digital holograms of macroscopic three-dimensional objects. <i>Applied Optics</i> , 2008, 47, D71.	2.1	66
14	Microparticle characterization using digital holography. <i>Chemical Engineering Science</i> , 2010, 65, 1037-1044.	3.8	62
15	Introducing secure modes of operation for optical encryption. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 2608.	1.5	61
16	MultiPhyl: a high-throughput phylogenomics webserver using distributed computing. <i>Nucleic Acids Research</i> , 2007, 35, W33-W37.	14.5	59
17	Framework for Task Scheduling in Heterogeneous Distributed Computing Using Genetic Algorithms. <i>Artificial Intelligence Review</i> , 2005, 24, 415-429.	15.7	54
18	Depth-independent segmentation of macroscopic three-dimensional objects encoded in single perspectives of digital holograms. <i>Optics Letters</i> , 2007, 32, 1229.	3.3	51

#	ARTICLE	IF	CITATIONS
19	Histogram Approaches for Lossy Compression of Digital Holograms of Three-Dimensional Objects. IEEE Transactions on Image Processing, 2007, 16, 1548-1556.	9.8	49
20	Three dimensional digital holographic profiling of micro-fibers. Optics Express, 2009, 17, 2938.	3.4	47
21	A companding approach for nonuniform quantization of digital holograms of three-dimensional objects. Optics Express, 2006, 14, 5129.	3.4	43
22	Collision in double random phase encoding. Optics Communications, 2008, 281, 5122-5125.	2.1	36
23	Role of phase key in the double random phase encoding technique: an error analysis. Applied Optics, 2008, 47, 3808.	2.1	35
24	Compression of Optically Encrypted Digital Holograms Using Artificial Neural Networks. Journal of Display Technology, 2006, 2, 401-410.	1.2	30
25	Compression defects in different reconstructions from phase-shifting digital holographic data. Applied Optics, 2007, 46, 4579.	2.1	26
26	Analysis of phase encoding for optical encryption. Optics Communications, 2009, 282, 482-492.	2.1	21
27	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
28	Visually lossless compression of digital hologram sequences. Proceedings of SPIE, 2010, , .	0.8	14
29	Low memory distributed reconstruction of large digital holograms. Optics Express, 2008, 16, 1990.	3.4	13
30	Digital Fresnel hologram watermarking. , 2010, , .		9
31	Measurement of compression defects in phase-shifting digital holographic data. , 2006, , .		7
32	Stereoscopic Viewing of Digital Holograms of Real-World Objects. , 2007, , .		7
33	Compression strategies for digital holograms in biomedical and multimedia applications. , 2022, 3, 1.		7
34	Holographic display of synthetic 3D dynamic scene. 3D Research, 2010, 1, 31.	1.8	6
35	Superposition of digital holograms. AIP Conference Proceedings, 2006, , .	0.4	4
36	Building Large Phylogenetic Trees on Coarse-Grained Parallel Machines. Algorithmica, 2006, 45, 285-300.	1.3	4

#	ARTICLE	IF	CITATIONS
37	A comparison of wavelet analysis techniques in digital holograms. Proceedings of SPIE, 2008, , .	0.8	4
38	Heterotic Computing Examples with Optics, Bacteria, and Chemicals. Lecture Notes in Computer Science, 2012, , 198-209.	1.3	4
39	Capture, processing, and display of real-world 3D objects using digital holography. , 2010, , .		3
40	Numerical reconstruction of digital holograms for conventional 3D display. , 2010, , .		3
41	Evaluation of perceived quality attributes of digital holograms viewed with a stereoscopic display. , 2010, , .		3
42	Combined optimal quantization and lossless coding of digital holograms of three-dimensional objects. , 2006, , .		2
43	Using traditional glass plate holograms to study visual perception of future digital holographic displays. , 2016, , .		1
44	Cryptanalysis of optical encryption: a heuristic approach. AIP Conference Proceedings, 2006, , .	0.4	0
45	Analysis of double random phase encryption from a key-space perspective. , 2007, , .		0
46	Cost function statistical analysis in double random phase encoding. , 2008, , .		0
47	Displaying digital holograms of real-world objects on a mobile device using tilt-based interaction. , 2010, , .		0
48	Phase in Optical Image Processing. , 2010, , .		0
49	3D perception of numerical hologram reconstructions enhanced by motion and stereo. , 2010, , .		0
50	3D capture, processing, display, and perception with digital holography: results from a European-funded project. , 2011, , .		0