

Thomas J Meitzler

List of Publications by Year in descending order

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83
papers

879
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567281
15
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89
all docs

89
docs citations

89
times ranked

810
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of Microwave Signal Frequency by a Pair of Spin-Torque Microwave Diodes. IEEE Magnetics Letters, 2021, 12, 1-5.	1.1	1
2	RF signal detector and energy harvester based on a spin-torque diode with perpendicular magnetic anisotropy. AIP Advances, 2021, 11, 025234.	1.3	1
3	Phase Nonreciprocity of Microwave Frequency Surface Acoustic Waves in Hybrid Heterostructures with Magnetoelastic Coupling. Advanced Electronic Materials, 2021, 7, 2100263.	5.1	14
4	Terahertz frequency spectrum analysis with a nanoscale antiferromagnetic tunnel junction. Journal of Applied Physics, 2020, 127, .	2.5	22
5	Ultra-fast wide band spectrum analyzer based on a rapidly tuned spin-torque nano-oscillator. Applied Physics Letters, 2018, 113, .	3.3	23
6	Survivability: a hierarchical fuzzy logic layered model for threat management of unmanned ground vehicles. , 2018, , .		3
7	UAVs: on development of fuzzy model for categorization of countermeasures during threat assessment. Proceedings of SPIE, 2017, , .	0.8	3
8	Low Power Microwave Signal Detection With a Spin-Torque Nano-Oscillator in the Active Self-Oscillating Regime. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	12
9	A Fuzzy Simulation Model for Military Vehicle Mobility Assessment. Advances in Fuzzy Systems, 2017, 2017, 1-12.	0.9	3
10	Nonreciprocal Spin Waves in a Magnonic Crystal with In-Plane Static Magnetization. Spin, 2016, 06, 1640013.	1.3	6
11	Interaction of Microwave Photons with Nanostructured Magnetic Metasurfaces. Physical Review Applied, 2016, 5, .	3.8	5
12	Magnonic crystal as a delay line for low-noise auto-oscillators. Applied Physics Letters, 2015, 107, .	3.3	28
13	Spin-wave edge modes in finite arrays of dipolarly coupled magnetic nanopillars. Physical Review B, 2014, 90, .	3.2	47
14	Conditions for the spin wave nonreciprocity in an array of dipolarly coupled magnetic nanopillars. Applied Physics Letters, 2013, 103, .	3.3	46
15	Localized Defect Modes in a Two-Dimensional Array of Magnetic Nanodots. IEEE Magnetics Letters, 2013, 4, 4000404-4000404.	1.1	4
16	Real-Life Applications of Fuzzy Logic. Advances in Fuzzy Systems, 2013, 2013, 1-3.	0.9	120
17	Hysteresis regime in the operation of a dual-free-layer spin-torque nano-oscillator with out-of-plane counter-precessing magnetic moments. Journal of Applied Physics, 2013, 114, .	2.5	13
18	Influence of Temperature on the Performance of a Spin-Torque Microwave Detector. IEEE Transactions on Magnetics, 2012, 48, 3807-3810.	2.1	18

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19	Frontalâ€œOccipital Connectivity During Visual Search. Brain Connectivity, 2012, 2, 164-175.	1.7	29
20	Detection and Elimination of a Potential Fire in Engine and Battery Compartments of Hybrid Electric Vehicles. Advances in Fuzzy Systems, 2012, 2012, 1-11.	0.9	9
21	Spin-torque microwave detector with out-of-plane precessing magnetic moment. Journal of Applied Physics, 2012, 111, .	2.5	45
22	Spin-Torque Nano-Oscillator as a Microwave Signal Source. IEEE Magnetics Letters, 2011, 2, 3000104-3000104.	1.1	44
23	MINIATURIZED HAND HELD MICROWAVE INTERFERENCE SCANNING SYSTEM FOR NDE OF DIELECTRIC ARMOR AND ARMOR SYSTEMS. , 2011, , .		0
24	Noise properties of a resonance-type spin-torque microwave detector. Applied Physics Letters, 2011, 99, 032507.	3.3	29
25	Spin wave excitations of a magnetic pillar with dipolar coupling between the layers. Journal of Physics Condensed Matter, 2010, 22, 136001.	1.8	26
26	On development of a VLSI circuit for impact source identification in ceramic plates. Proceedings of SPIE, 2010, , .	0.8	0
27	Fuzzy logic for determination of crack severity in defense applications. Proceedings of SPIE, 2010, , .	0.8	0
28	An infrared solution to a national priority NASA ice detection and measurement problem. , 2007, , .		5
29	Video image fusion process using fuzzy technique. , 2006, , .		1
30	A video-based system and method for improving aircraft security. , 2004, , .		0
31	Use of a photosimulation laboratory for estimating vehicle detection probability. Optical Engineering, 2003, 42, 1820.	1.0	4
32	Comparison of 2D and 3D displays and sensor fusion for threat detection, surveillance and telepresence. , 2003, , .		0
33	Fuzzy-logic-based sensor fusion for mine and concealed weapon detection. , 2003, , .		7
34	<title>Fuzzy-logic-based sensor fusion of images</title>. , 2002, 4713, 137.		6
35	Eyetracker analysis of fixation points using an IR HUD in an automobile. International Journal of Vehicle Design, 2001, 26, 374.	0.3	2
36	Predicting search time in visually cluttered scenes using the fuzzy logic approach. Optical Engineering, 2001, 40, 1844.	1.0	11

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37	Advances in Target Acquisition Modeling II. Optical Engineering, 2001, 40, 1756.	1.0	10
38	<title>Noise and contrast comparison of visual and infrared images of hazards as seen inside an automobile</title>. , 2000, , .		2
39	Computational modeling of age-differences in a visually demanding driving task: vehicle detection. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2000, 30, 336-346.	2.9	5
40	Dyta: An Intelligent System for Dynamic Target Analysis. , 2000, , 118-129.		1
41	<title>Predicting search time in visual scenes using the fuzzy logic approach</title>. , 1999, , .		3
42	<title>Design and perception testing of a novel 3D autostereoscopic holographic display system</title>. , 1999, , .		0
43	A relative clutter metric. IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 968-976.	4.7	16
44	Detection probability using relative clutter in infrared images. IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 955-962.	4.7	20
45	Computing the probability of target detection in dynamic visual scenes containing clutter using fuzzy logic approach. Optical Engineering, 1998, 37, 1951.	1.0	3
46	Predicting the probability of target detection in static infrared and visual scenes using the fuzzy logic approach. Optical Engineering, 1998, 37, 10.	1.0	10
47	Guest Editorial: Special Section on Advances in Target Acquisition Modeling. Optical Engineering, 1998, 37, 1900.	1.0	5
48	2-D wavelet image transforms extended to 3-D with applications. IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 963-967.	4.7	0
49	<title>Perception test of infrared images of soldiers in camouflaged uniforms</title>. , 1998, 3375, 2.		2
50	<title>Background characterization and visualization based on visual neurophysiology</title>. , 1997, , .		2
51	<title>Computing the probability of target detection in infrared and visual scenes using the fuzzy logic approach</title>. , 1997, , .		0
52	<title>Wavelet transforms of cluttered images and their application to computing the probability of detection</title>. , 1996, 2743, 302.		1
53	<title>Validation status of the TARDEC visual model (TVM)</title>. , 1996, 2743, 276.		0
54	<title>Comparative study of wavelet methods in ground vehicle signature analysis</title>. , 1996, , .		0

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55	On modification of the relative complexity metric. Microelectronics Reliability, 1996, 36, 469-475.	1.7	3
56	Fuzzy logic approach for computing the probability of target detection in cluttered scenes. Optical Engineering, 1996, 35, 3623.	1.0	17
57	Wavelet transforms of cluttered images and their application to computing the probability of detection. Optical Engineering, 1996, 35, 3019.	1.0	17
58	Target acquisition methodology for visual and infrared imaging sensors. Optical Engineering, 1996, 35, 3026.	1.0	24
59	<title>Wavelet-based ground vehicle recognition using acoustic signals</title>. , 1996, , .		41
60	<title>Wavelet analysis of ground vehicle acoustic signatures</title>. , 1995, 2491, 560.		3
61	<title>Simulation and comparison of infrared sensors for automotive applications</title>. , 1995, , .		0
62	<title>Time-varying acoustic source identification using fusion of hidden Markov model and wavelet neural network</title>. , 1995, , .		1
63	<title>Early vision model for target detection</title>. , 1995, , .		8
64	<title>Computational vision models of early vision for target acquisition</title>. , 1995, , .		0
65	Personal computer version of the TACOM thermal image model (TTIM). , 1994, 2224, 14.		1
66	Comparison of the performance of 3- to 5- and 8- to 12- μ m infrared cameras. , 1994, 2224, 22.		3
67	Introduction of target, atmosphere, background, and sensor-specific (TABSS) \hat{T} metric: analysis, comparison, and applications. , 1994, 2223, 342.		0
68	<title>Background and target randomization and root mean square (RMS) background matching using a new ΔT metric definition</title>. , 1993, , .		2
69	Evaluation of \hat{T} using statistical characteristics of the target and background. , 1993, 1969, 11.		4
70	<title>Evaluation of ΔT using statistical characteristics of the target and background</title>. , 1993, , .		0
71	<title>Calculation of background clutter in infrared imagery: a semiempirical study</title>. , 1993, 1967, 525.		2
72	Statistical measures of sensor performance based on the correlation of background clutter. , 1992, , .		3

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73	Performance assessment methodology for ground vehicle infrared and visual signature countermeasures. , 1992, 1687, 334.		2
74	<title>Variable emissivity plates under a three-dimensional sky background</title>. , 1991, 1486, 380.		0
75	A new \hat{I}^T metric evaluation for target and background under various statistics. , 0, , .		0
76	A clutter metric based on texture. , 0, , .		3
77	Two dimensional clutter: a new definition. , 0, , .		5
78	Management of effective verification and validation. , 0, , .		1
79	Image fusion using fuzzy logic and applications. , 0, , .		34
80	A Comparison of Mamdani and Sugeno Methods for Modeling Visual Perception Lab Data. , 0, , .		2
81	Iterative Image Fusion Technique using Fuzzy and Neuro Fuzzy logic and Applications. , 0, , .		18
82	Defect Detection in Ceramic Armor Using Phased Array Ultrasound. Advances in Science and Technology, 0, , .	0.2	1
83	Application of a Miniaturized Portable Microwave Interference Scanning System for Nondestructive Testing of Composite Ceramic Armor. Ceramic Engineering and Science Proceedings, 0, , 163-171.	0.1	0