Thomas J Meitzler

List of Publications by Year
in descending order

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83	879	567281	552781
papers	citations	15 h-index	26 g-index

89	89	89	810
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Real-Life Applications of Fuzzy Logic. Advances in Fuzzy Systems, 2013, 2013, 1-3.	0.9	120
2	Spin-wave edge modes in finite arrays of dipolarly coupled magnetic nanopillars. Physical Review B, 2014, 90, .	3.2	47
3	Conditions for the spin wave nonreciprocity in an array of dipolarly coupled magnetic nanopillars. Applied Physics Letters, 2013, 103, .	3.3	46
4	Spin-torque microwave detector with out-of-plane precessing magnetic moment. Journal of Applied Physics, 2012, 111, .	2.5	45
5	Spin-Torque Nano-Oscillator as a Microwave Signal Source. IEEE Magnetics Letters, 2011, 2, 3000104-3000104.	1.1	44
6	<title>Wavelet-based ground vehicle recognition using acoustic signals</title>. , 1996, , .		41
7	Image fusion using fuzzy logic and applications. , 0, , .		34
8	Noise properties of a resonance-type spin-torque microwave detector. Applied Physics Letters, 2011, 99, 032507.	3.3	29
9	Frontalâ€“Occipital Connectivity During Visual Search. Brain Connectivity, 2012, 2, 164-175.	1.7	29
10	Magnonic crystal as a delay line for low-noise auto-oscillators. Applied Physics Letters, 2015, 107, .	3.3	28
11	Spin wave excitations of a magnetic pillar with dipolar coupling between the layers. Journal of Physics Condensed Matter, 2010, 22, 136001.	1.8	26
12	Target acquisition methodology for visual and infrared imaging sensors. Optical Engineering, 1996, 35, 3026.	1.0	24
13	Ultra-fast wide band spectrum analyzer based on a rapidly tuned spin-torque nano-oscillator. Applied Physics Letters, 2018, 113, .	3.3	23
14	Terahertz frequency spectrum analysis with a nanoscale antiferromagnetic tunnel junction. Journal of Applied Physics, 2020, 127, .	2.5	22
15	Detection probability using relative clutter in infrared images. IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 955-962.	4.7	20
16	Iterative Image Fusion Technique using Fuzzy and Neuro Fuzzy logic and Applications. , 0, , .		18
17	Influence of Temperature on the Performance of a Spin-Torque Microwave Detector. IEEE Transactions on Magnetics, 2012, 48, 3807-3810.	2.1	18
18	Fuzzy logic approach for computing the probability of target detection in cluttered scenes. Optical Engineering, 1996, 35, 3623.	1.0	17

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19	Wavelet transforms of cluttered images and their application to computing the probability of detection. Optical Engineering, 1996, 35, 3019.	1.0	17
20	A relative clutter metric. IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 968-976.	4.7	16
21	Phase Nonreciprocity of Microwaveâ€Frequency Surface Acoustic Waves in Hybrid Heterostructures with Magnetoelastic Coupling. Advanced Electronic Materials, 2021, 7, 2100263.	5.1	14
22	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
23	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
24	Predicting search time in visually cluttered scenes using the fuzzy logic approach. Optical Engineering, 2001, 40, 1844.	1.0	11
25	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
26	Advances in Target Acquisition Modeling II. Optical Engineering, 2001, 40, 1756.	1.0	10
27	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
28	<title>Early vision model for target detection</title>. , 1995, , .		8
29	Fuzzy-logic-based sensor fusion for mine and concealed weapon detection. , 2003, , .		7
30	<title>Fuzzy-logic-based sensor fusion of images</title>. , 2002, 4713, 137.		6
31	Nonreciprocal Spin Waves in a Magnonic Crystal with In-Plane Static Magnetization. Spin, 2016, 06, 1640013.	1.3	6
32	Two dimensional clutter: a new definition. , 0, , .		5
33	Guest Editorial: Special Section on Advances in Target Acquisition Modeling. Optical Engineering, 1998, 37, 1900.	1.0	5
34	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
35	An infrared solution to a national priority NASA ice detection and measurement problem. , 2007, , .		5
36	Interaction of Microwave Photons with Nanostructured Magnetic Metasurfaces. Physical Review Applied, 2016, 5, .	3.8	5

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37	Evaluation of Î”T using statistical characteristics of the target and background. , 1993, 1969, 11.		4
38	Use of a photosimulation laboratory for estimating vehicle detection probability. Optical Engineering, 2003, 42, 1820.	1.0	4
39	Localized Defect Modes in a Two-Dimensional Array of Magnetic Nanodots. IEEE Magnetics Letters, 2013, 4, 4000404-4000404.	1.1	4
40	Statistical measures of sensor performance based on the correlation of background clutter. , 1992, , .		3
41	A clutter metric based on texture. , 0, , .		3
42	Comparison of the performance of 3- to 5- and 8- to 12-Âµm infrared cameras. , 1994, 2224, 22.		3
43	<title>Wavelet analysis of ground vehicle acoustic signatures</title>. , 1995, 2491, 560.		3
44	On modification of the relative complexity metric. Microelectronics Reliability, 1996, 36, 469-475.	1.7	3
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	<title>Predicting search time in visual scenes using the fuzzy logic approach</title>. , 1999, , .		3
47	UAVs: on development of fuzzy model for categorization of countermeasures during threat assessment. Proceedings of SPIE, 2017, , .	0.8	3
48	A Fuzzy Simulation Model for Military Vehicle Mobility Assessment. Advances in Fuzzy Systems, 2017, 2017, 1-12.	0.9	3
49	Survivability: a hierarchical fuzzy logic layered model for threat management of unmanned ground vehicles. , 2018, , .		3
50	Performance assessment methodology for ground vehicle infrared and visual signature countermeasures. , 1992, 1687, 334.		2
51	<title>Background and target randomization and root mean square (RMS) background matching using a new deltaT metric definition</title>. , 1993, , .		2
52	<title>Calculation of background clutter in infrared imagery: a semiempirical study</title>. , 1993, 1967, 525.		2
53	<title>Background characterization and visualization based on visual neurophysiology</title>. , 1997, , .		2
54	<title>Perception test of infrared images of soldiers in camouflaged uniforms</title>. , 1998, 3375, 2.		2

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55	<title>Noise and contrast comparison of visual and infrared images of hazards as seen inside an automobile</title>. , 2000, , .		2
56	Eyetracker analysis of fixation points using an IR HUD in an automobile. International Journal of Vehicle Design, 2001, 26, 374.	0.3	2
57	A Comparison of Mamdani and Sugeno Methods for Modeling Visual Perception Lab Data. , 0, , .		2
58	Personal computer version of the TACOM thermal image model (TTIM). , 1994, 2224, 14.		1
59	<title>Time-varying acoustic source identification using fusion of hidden Markov model and wavelet neural network</title>. , 1995, , .		1
60	Management of effective verification and validation. , 0, , .		1
61	<title>Wavelet transforms of cluttered images and their application to computing the probability of detection</title>. , 1996, 2743, 302.		1
62	Video image fusion process using fuzzy technique. , 2006, , .		1
63	Defect Detection in Ceramic Armor Using Phased Array Ultrasound. Advances in Science and Technology, 0, , .	0.2	1
64	Measurement of Microwave Signal Frequency by a Pair of Spin-Torque Microwave Diodes. IEEE Magnetics Letters, 2021, 12, 1-5.	1.1	1
65	RF signal detector and energy harvester based on a spin-torque diode with perpendicular magnetic anisotropy. AIP Advances, 2021, 11, 025234.	1.3	1
66	Dyta: An Intelligent System for Dynamic Target Analysis. , 2000, , 118-129.		1
67	<title>Variable emissivity plates under a three-dimensional sky background</title>. , 1991, 1486, 380.		0
68	A new Î”T metric evaluation for target and background under various statistics. , 0, , .		0
69	<title>Evaluation of <delta>T using statistical characteristics of the target and background</title>. , 1993, , .		0
70	Introduction of target, atmosphere, background, and sensor-specific (TABSS) Î”T metric: analysis, comparison, and applications. , 1994, 2223, 342.		0
71	<title>Simulation and comparison of infrared sensors for automotive applications</title>. , 1995, , .		0
72	<title>Computational vision models of early vision for target acquisition</title>. , 1995, , .		0

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73	<title>Validation status of the TARDEC visual model (TVM)</title>. , 1996, 2743, 276.		0
74	<title>Comparative study of wavelet methods in ground vehicle signature analysis</title>. , 1996, , .		0
75	<title>Computing the probability of target detection in infrared and visual scenes using the fuzzy logic approach</title>. , 1997, , .		0
76	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
77	<title>Design and perception testing of a novel 3D autostereoscopic holographic display system</title>. , 1999, , .		0
78	Comparison of 2D and 3D displays and sensor fusion for threat detection, surveillance and telepresence. , 2003, , .		0
79	A video-based system and method for improving aircraft security. , 2004, , .		0
80	On development of a VLSI circuit for impact source identification in ceramic plates. Proceedings of SPIE, 2010, , .	0.8	0
81	Fuzzy logic for determination of crack severity in defense applications. Proceedings of SPIE, 2010, , .	0.8	0
82	MINIATURIZED HAND HELD MICROWAVE INTERFERENCE SCANNING SYSTEM FOR NDE OF DIELECTRIC ARMOR AND ARMOR SYSTEMS. , 2011, , .		0
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