## Philip Birch

## List of Publications by Year in descending order

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86	870	16	26
papers	citations	h-index	g-index
87	87	87	594
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Transportation mode recognition fusing wearable motion, sound and vision sensors. IEEE Sensors Journal, 2020, , 1-1.	4.7	16
2	No-reference image quality assessment based on AdaBoost BP neural network in wavelet domain. Journal of Systems Engineering and Electronics, 2019, 30, 223.	2.2	4
3	Benchmarking deep classifiers on mobile devices for vision-based transportation recognition. , 2019, , .		2
4	Human and Machine Recognition of Transportation Modes from Body-Worn Camera Images. , 2019, , .		9
5	Enhanced target recognition employing spatial correlation filters and affine scale invariant feature transform. , 2019, , .		5
6	Wireless charging pad detection and alignment using a fisheye camera for electric vehicles., 2019,,.		1
7	Multiple-view polarimetric camera. Applied Optics, 2018, 57, 6329.	1.8	2
8	Obstacle detection system based on colour segmentation using monocular vision for an unmanned ground vehicle. International Journal of Computational Vision and Robotics, 2018, 8, 241.	0.3	1
9	Real-time unmanned aerial vehicle tracking of fast moving small target on ground. Journal of Electronic Imaging, 2018, 27, 1.	0.9	10
10	A simplification of the Shor quantum factorization algorithm employing a quantum Hadamard transform. , 2018, , .		0
11	Low-cost polarimetric imaging for surveillance. , 2018, , .		O
12	ASIFT based recognition of fixed shape moving objects and tracking via modified particle filters. , 2018, , .		0
13	Motion control design for unmanned ground vehicle in dynamic environment using intelligent controller. International Journal of Intelligent Computing and Cybernetics, 2017, 10, 530-548.	2.7	19
14	A wide field fluorescence lifetime imaging system using a light sheet microscope. Proceedings of SPIE, 2016, , .	0.8	2
15	Considerations for the extension of coherent optical processors into the quantum computing regime. Proceedings of SPIE, 2016, , .	0.8	0
16	Design of Fractional-Order Controller for Trajectory Tracking Control of a Non-holonomic Autonomous Ground Vehicle. Journal of Control, Automation and Electrical Systems, 2016, 27, 29-42.	2.0	23
17	Levenberg-Marquardt optimised neural networks for trajectory tracking of autonomous ground vehicles. International Journal of Mechatronics and Automation, 2015, 5, 140.	0.2	7
18	Long-distance Bessel beam propagation through Kolmogorov turbulence. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 2066.	1.5	69

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19	Hierarchical video surveillance architecture: a chassis for video big data analytics and exploration. Proceedings of SPIE, 2015, , .	0.8	7
20	Path tracking of autonomous ground vehicle based on fractional order PID controller optimized by PSO. , 2015, , .		33
21	Comparison of spatial domain optimal trade-off maximum average correlation height (OT-MACH) filter with scale invariant feature transform (SIFT) using images with poor contrast and large illumination gradient., 2015,,.		4
22	Modelling the control of African Armyworm (Spodoptera exempta) infestations in cereal crops by deploying naturally beneficial insects. Biosystems Engineering, 2015, 129, 268-276.	4.3	9
23	Adaptive Neuro-Fuzzy Technique for Autonomous Ground Vehicle Navigation. Robotics, 2014, 3, 349-370.	3.5	43
24	PHACT: Parallel HOG and Correlation Tracking. , 2014, , .		0
25	Coherent optical implementations of the fast Fourier transform and their comparison to the optical implementation of the quantum Fourier transform. Proceedings of SPIE, 2013, , .	0.8	3
26	Human detection using OT-MACH filter in cluttered FLIR imagery. , 2013, , .		0
27	Illumination invariant stationary object detection. IET Computer Vision, 2013, 7, 1-8.	2.0	19
28	An improved background segmentation method for ghost removals. , 2013, , .		2
29	Intensity invariant complex encoded color correlation. Applied Optics, 2012, 51, 6307.	1.8	0
30	Improving OT-MACH filter performance for target recognition applications with the use of a Rayleigh distribution filter. , $2012$ , , .		0
31	An adaptive sample count particle filter. Computer Vision and Image Understanding, 2012, 116, 1208-1222.	4.7	14
32	Real-time occlusion tolerant detection of illegally parked vehicles. International Journal of Control, Automation and Systems, 2012, 10, 972-981.	2.7	12
33	Object tracking in a multi camera environment. , 2011, , .		1
34	A global space policy that would revive space exploration., 2011,,.		1
35	Depth from structured defocus that is independent of the object reflectivity function. Optics Letters, 2011, 36, 2194.	3.3	10
36	Robust human intrusion detection technique using hue-saturation histograms., 2011,,.		0

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37	Door surveillance using edge map-based Harris corner detector and active contour orientation. , 2011, , $\cdot$		o
38	Enhancement of the speed of space-variant correlation filter implementations by using low-pass pre-filtering for kernel placement and applications to real-time security monitoring. Proceedings of SPIE, 2011, , .	0.8	1
39	Application of speed-enhanced spatial domain correlation filters for real-time security monitoring. Proceedings of SPIE, $2011, \ldots$	0.8	0
40	Automatic parameter adjustment of difference of Gaussian (DoG) filter to improve OT-MACH filter performance for target recognition applications. , $2011$ , , .		3
41	Parameter optimization of the optimal trade-off maximum average correlation height filter (OT-MACH) for FLIR imaging in high clutter environments. Proceedings of SPIE, 2011, , .	0.8	2
42	Tracking illegally parked vehicles using correlation of multi-scale difference of Gaussian filtered patches. , $2011,\ldots$		2
43	A two-stage approach to detect abandoned baggage in public places. , 2010, , .		0
44	Approximate bandpass and frequency response models of the difference of Gaussian filter. Optics Communications, 2010, 283, 4942-4948.	2.1	30
45	Implementation of the Maximum Average Correlation Height (MACH) filter in the spatial domain for object recognition from clutter backgrounds. , 2010, , .		2
46	Volume holographic MACH correlator. Proceedings of SPIE, 2010, , .	0.8	1
47	Illumination invariant method to detect and track left luggage in public areas. , 2010, , .		4
48	A space variant maximum average correlation height (MACH) filter for object recognition in real time thermal images for security applications. Proceedings of SPIE, $2010,  ,  .$	0.8	3
49	An implementation and performance evaluation of a space variant OT-MACH filter for a security detection application using FLIR sensor. , 2010, , .		0
50	Numerical simulation of a CW-pumped Cr:YAG passively Q-switched Yb:YAG pulsed laser. Optics and Lasers in Engineering, 2009, 47, 617-621.	3.8	6
51	Low cost propulsion systems for the developing world. , 2009, , .		1
52	Advanced MagLev Propulsion System and Its Economic Impact. , 2009, , .		1
53	An optical space domain volume holographic correlator. Proceedings of SPIE, 2009, , .	0.8	3
54	Alternative Space Vehicle Launch Systems. , 2008, , .		3

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55	Performance assessment of the modified-hybrid optical neural network filter. Applied Optics, 2008, 47, 3378.	2.1	6
56	On a method to eliminate moving shadows in video sequences. Proceedings of SPIE, 2008, , .	0.8	3
57	Image watermarking extraction using Fourier domain Wiener filter. Proceedings of SPIE, 2008, , .	0.8	О
58	Performance analysis of a modified moving shadow elimination method developed for indoor scene activity tracking. Proceedings of SPIE, 2008, , .	0.8	2
59	Synthesis and reconstruction of computer generated holograms by a double pass technique on a twisted nematic-based liquid crystal spatial light modulator. Optics and Lasers in Engineering, 2007, 45, 413-418.	3.8	6
60	Segmentation of moving objects from cluttered background scenes using a running average model., 2005,,.		0
61	Automated vehicle occupancy monitoring. Optical Engineering, 2004, 43, 1828.	1.0	15
62	Object recognition within cluttered scenes employing a hybrid optical neural network filter. Optical Engineering, 2004, 43, 1839.	1.0	10
63	High-accuracy surface position sensor based on a two-lens system. Optics and Lasers in Engineering, 2004, 41, 919-926.	3.8	0
64	A nonlinear training set superposition filter derived by neural network training methods for implementation in a shift-invariant optical correlator., 2003, 5106, 84.		5
65	Optical and electronic design of a hybrid digital-optical correlator system. Optical Engineering, 2002, 41, 32.	1.0	18
66	Computer-generated complex filter for an all-optical and a digital-optical hybrid correlator. Optical Engineering, 2002, 41, 105.	1.0	10
67	Optical design of a miniature Fourier transform lens system for a hybrid digital-optical correlator. Optical Engineering, 2002, 41, 1650.	1.0	11
68	<title>Incoherent correlator system for satellite orientation control</title> ., 2002, , .		0
69	Experimental implementation of a Wiener filter in a hybrid digital–optical correlator. Optics Letters, 2001, 26, 494.	3.3	11
70	Dynamic complex wave-front modulation with an analog spatial light modulator. Optics Letters, 2001, 26, 920.	3.3	26
71	<title>Fully complex filter implementation in all-optical and hybrid digital/optical correlators</title> ., 2001,,.		0
72	<title>Hardware implementation details of a hybrid digital/optical correlator system</title> ., 2000, 4043, 25.		5

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73	<title>Optical correlator with fully complex liquid crystal filter</title> ., 2000, , .		1
74	A comparison of the iterative Fourier transform method and evolutionary algorithms for the design of diffractive optical elements. Optics and Lasers in Engineering, 2000, 33, 439-448.	3.8	16
75	Fully complex optical modulation with an analogue ferroelectric liquid crystal spatial light modulator. Optics Communications, 2000, 175, 347-352.	2.1	39
76	A novel high-accuracy microstereolithography method employing an adaptive electro-optic mask. Journal of Materials Processing Technology, 2000, 107, 167-172.	6.3	60
77	Two-pixel computer-generated hologram with a zero-twist nematic liquid-crystal spatial light modulator. Optics Letters, 2000, 25, 1013.	3.3	32
78	Real-time digital–optical correlator-systems design. Microprocessors and Microsystems, 1999, 23, 501-511.	2.8	3
79	Characterisation of Epoxy Resins for Microstereolithographic Rapid Prototyping. International Journal of Advanced Manufacturing Technology, 1999, 15, 281-286.	3.0	18
80	Microfabrication by use of a spatial light modulator in the ultraviolet:?experimental results. Optics Letters, 1999, 24, 549.	3.3	38
81	LIQUID CRYSTAL ACTIVE OPTICS CORRECTION USING EVOLUTIONARY ALGORITHMS., 1999,,.		0
82	Real-time optical aberration correction with a ferroelectric liquid-crystal spatial light modulator. Applied Optics, 1998, 37, 2164.	2.1	23
83	UV microstereolithography system that uses spatial light modulator technology. Applied Optics, 1998, 37, 7514.	2.1	39
84	Real-time adaptive optics correction with a ferroelectric liquid crystal spatial light modulator and Shack-Hartmann wavefront sensor., 1997, 3126, 185.		4
85	A real-time closed-loop liquid crystal adaptive optics system: first results. Optics Communications, 1997, 137, 17-21.	2.1	51
86	Binary adaptive optics: atmospheric wave-front correction with a half-wave phase shifter. Applied Optics, 1995, 34, 6058.	2.1	26