Phil F Culverhouse

List of Publications by Year
in descending order

48 papers	**1,425** citations	623188 **14** h-index	329751 **37** g-index
49 all docs	**49** docs citations	**49** times ranked	**2129** citing authors

#	Article	IF	Citations
1	RAPID: Research on Automated Plankton Identification. Oceanography, 2007, 20, 172-187.	0.5	409
2	Time to automate identification. Nature, 2010, 467, 154-155.	13.7	222
3	Recommendations on methods for the detection and control of biological pollution in marine coastal waters. Marine Pollution Bulletin, 2011, 62, 2598-2604.	2.3	102
4	AS WE SEE IT* Automatic image analysis of plankton: future perspectives. Marine Ecology - Progress Series, 2006, 312, 297-309.	0.9	82
5	Photonic gas sensors exploiting directly the optical properties of hybrid carbon nanotube localized surface plasmon structures. Light: Science and Applications, 2016, 5, e16036-e16036.	7.7	67
6	Robust Adaptive Control of an Uninhabited Surface Vehicle. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 78, 319-338.	2.0	56
7	Fish identification from videos captured in uncontrolled underwater environments. ICES Journal of Marine Science, 2016, 73, 2737-2746.	1.2	52
8	Characterisation and performance of a Terfenol-D coated femtosecond laser inscribed optical fibre Bragg sensor with a laser ablated microslot for the detection of static magnetic fields. Optics Express, 2011, 19, 363.	1.7	45
9	An empirical assessment of the consistency of taxonomic identifications. Marine Biology Research, 2014, 10, 73-84.	0.3	44
10	Novel Hybrid Adaptive Controller for Manipulation in Complex Perturbation Environments. PLoS ONE, 2015, 10, e0129281.	1.1	35
11	Towards automating underwater measurement of fish length: a comparison of semi-automatic and manual stereo–video measurements. ICES Journal of Marine Science, 2017, 74, 1690-1701.	1.2	33
12	Automatic fish population counting by artificial neural network. Aquaculture, 1995, 133, 45-55.	1.7	25
13	Human and machine factors in algae monitoring performance. Ecological Informatics, 2007, 2, 361-366.	2.3	25
14	Formation and Characterization of Ultra-Sensitive Surface Plasmon Resonance Sensor Based Upon a Nano-Scale Corrugated Multi-Layered Coated D-Shaped Optical Fiber. IEEE Journal of Quantum Electronics, 2012, 48, 394-405.	1.0	25
15	A first approach to build and test the Copepod Mean Size and Total Abundance (CMSTA) ecological indicator using in-situ size measurements from the Plankton Imager (PI). Ecological Indicators, 2021, 123, 107307.	2.6	16
16	The management of electronics engineering design teams: linking tactics to changing conditions. Design Studies, 2000, 21, 75-97.	1.9	15
17	Constraining designers and their CAD tools. Design Studies, 1995, 16, 81-101.	1.9	13
18	A novel application of motion analysis for detecting stress responses in embryos at different stages of development. BMC Bioinformatics, 2013, 14, 37.	1.2	13

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19	Real-time kinetic binding studies at attomolar concentrations in solution phase using a single-stage opto-biosensing platform based upon infrared surface plasmons. Optics Express, 2017, 25, 39.	1.7	13
20	Comparison of a Cost-Effective Integrated Plankton Sampling and Imaging Instrument with Traditional Systems for Mesozooplankton Sampling in the Celtic Sea. Frontiers in Marine Science, 2018, 5, .	1.2	13
21	Active stereo platform: online epipolar geometry update. Eurasip Journal on Image and Video Processing, 2018, 2018, .	1.7	10
22	Combining Motion Analysis and Microfluidics â€" A Novel Approach for Detecting Whole-Animal Responses to Test Substances. PLoS ONE, 2014, 9, e113235.	1.1	10
23	Application of arachnid prey localisation theory for a robot sensorimotor controller. Neurocomputing, 2011, 74, 3335-3342.	3.5	9
24	Methane detection scheme based upon the changing optical constants of a zinc oxide/platinum matrix created by a redox reaction and their effect upon surface plasmons. Sensors and Actuators B: Chemical, 2018, 255, 843-853.	4.0	9
25	MODELING THE HUMAN BLINK: A COMPUTATIONAL MODEL FOR USE WITHIN HUMANâ€"ROBOT INTERACTION. International Journal of Humanoid Robotics, 2013, 10, 1350006.	0.6	8
26	Biomimetic joint/task space hybrid adaptive control for bimanual robotic manipulation. , 2014, , .		8
27	Comparison of Human and Automatic Facial Emotions and Emotion Intensity Levels Recognition. , 2007, , .		7
28	An Instrument for Rapid Mesozooplankton Monitoring at Ocean Basin Scale. Journal of Marine Biology and Aquaculture, 2015, 1, 1-11.	0.1	7
29	Biological Oceanography Needs New Tools To Automate Sample Analysis. Journal of Marine Biology and Aquaculture, 2015, 1, 1-2.	0.1	7
30	Ocean-Scale Monitoring of Mesozooplankton on Atlantic Meridional Transect 21. Journal of Marine Biology and Aquaculture, 2016, 2, 1-13.	0.1	7
31	Application of artificial neural networks to weighted interval Kalman filtering. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2014, 228, 267-277.	0.7	6
32	A tool for tracking engineering design in action. Design Studies, 1992, 13, 54-70.	1.9	5
33	Automating Active Stereo Vision Calibration Process with Cobots. IFAC-PapersOnLine, 2017, 50, 163-168.	0.5	5
34	Dual adaptive control of bimanual manipulation with online fuzzy parameter tuning. , 2014, , .		4
35	<i>In situ</i> automated imaging, using the Plankton Imager, captures temporal variations in mesozooplankton using the Celtic Sea as a case study. Journal of Plankton Research, 2021, 43, 300-313.	0.8	4
36	Detection of nitrous oxide using infrared optical plasmonics coupled with carbon nanotubes. Nanoscale Advances, 2020, 2, 4615-4626.	2.2	4

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37	Low-dimensional nano-patterned surface fabricated by direct-write UV-chemically induced geometric inscription technique. Optics Letters, 2019, 44, 195.	1.7	2
38	Discovering the Local Co-occurring Patterns in Visual Categorization. , 2006, , .		1
39	Oscillation and direction control strategies for a robotic fish. Underwater Technology, 2013, 31, 67-75.	0.3	1
40	Computation of stable interval Kalman filter bounds for their use in robust state estimation for an uninhabited surface vehicle with bounded indeterminate system dynamics. , 2014, , .		1
41	On the application of a hybrid ellipsoidal-rectangular interval arithmetic algorithm to interval Kalman filtering for state estimation of uncertain systems. International Journal of Control, 2015, 88, 1805-1817.	1.2	1
42	Depth Estimation Based on Pyramid Normalized Cross-Correlation Algorithm for Vergence Control. IEEE Access, 2018, 6, 65199-65211.	2.6	1
43	Stochastic neural network control of rigid robot manipulator with passive last joint. , 2012, , .		0
44	Adaptive asymptotic tracking control of strict-feedback nonlinear discrete-time system with periodic time delay. , 2012, , .		0
45	Adaptive training of cortical feature maps for a robot sensorimotor controller. Neural Networks, 2013, 44, 6-21.	3.3	0
46	Fitting multiple projective models using clustering-based Markov chain Monte Carlo inference. Image and Vision Computing, 2015, 33, 15-25.	2.7	0
47	Laser-sculpted hybrid photonic magnetometer with nanoscale magnetostrictive interaction. Sensors and Actuators A: Physical, 2018, 269, 545-555.	2.0	0
48	BunnyBot: Humanoid Platform for Research and Teaching. Communications in Computer and Information Science, 2009, , 25-33.	0.4	0