

Phil F Culverhouse

List of Publications by Year in descending order

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Version: 2024-02-01

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	<i>In situ</i> automated imaging, using the Plankton Imager, captures temporal variations in mesozooplankton using the Celtic Sea as a case study. <i>Journal of Plankton Research</i> , 2021, 43, 300-313.	0.8	4
2	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). <i>Ecological Indicators</i> , 2021, 123, 107307.	2.6	16
3	Detection of nitrous oxide using infrared optical plasmonics coupled with carbon nanotubes. <i>Nanoscale Advances</i> , 2020, 2, 4615-4626.	2.2	4
4	Low-dimensional nano-patterned surface fabricated by direct-write UV-chemically induced geometric inscription technique. <i>Optics Letters</i> , 2019, 44, 195.	1.7	2
5	Laser-sculpted hybrid photonic magnetometer with nanoscale magnetostrictive interaction. <i>Sensors and Actuators A: Physical</i> , 2018, 269, 545-555.	2.0	0
6	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. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 843-853.	4.0	9
7	Depth Estimation Based on Pyramid Normalized Cross-Correlation Algorithm for Vergence Control. <i>IEEE Access</i> , 2018, 6, 65199-65211.	2.6	1
8	Active stereo platform: online epipolar geometry update. <i>Eurasip Journal on Image and Video Processing</i> , 2018, 2018, .	1.7	10
9	Comparison of a Cost-Effective Integrated Plankton Sampling and Imaging Instrument with Traditional Systems for Mesozooplankton Sampling in the Celtic Sea. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	13
10	Towards automating underwater measurement of fish length: a comparison of semi-automatic and manual stereo video measurements. <i>ICES Journal of Marine Science</i> , 2017, 74, 1690-1701.	1.2	33
11	Automating Active Stereo Vision Calibration Process with Cobots. <i>IFAC-PapersOnLine</i> , 2017, 50, 163-168.	0.5	5
12	Real-time kinetic binding studies at attomolar concentrations in solution phase using a single-stage opto-biosensing platform based upon infrared surface plasmons. <i>Optics Express</i> , 2017, 25, 39.	1.7	13
13	Photonic gas sensors exploiting directly the optical properties of hybrid carbon nanotube localized surface plasmon structures. <i>Light: Science and Applications</i> , 2016, 5, e16036-e16036.	7.7	67
14	Fish identification from videos captured in uncontrolled underwater environments. <i>ICES Journal of Marine Science</i> , 2016, 73, 2737-2746.	1.2	52
15	Ocean-Scale Monitoring of Mesozooplankton on Atlantic Meridional Transect 21. <i>Journal of Marine Biology and Aquaculture</i> , 2016, 2, 1-13.	0.1	7
16	On the application of a hybrid ellipsoidal-rectangular interval arithmetic algorithm to interval Kalman filtering for state estimation of uncertain systems. <i>International Journal of Control</i> , 2015, 88, 1805-1817.	1.2	1
17	Robust Adaptive Control of an Uninhabited Surface Vehicle. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015, 78, 319-338.	2.0	56
18	Fitting multiple projective models using clustering-based Markov chain Monte Carlo inference. <i>Image and Vision Computing</i> , 2015, 33, 15-25.	2.7	0

#	ARTICLE	IF	CITATIONS
19	Novel Hybrid Adaptive Controller for Manipulation in Complex Perturbation Environments. PLoS ONE, 2015, 10, e0129281.	1.1	35
20	An Instrument for Rapid Mesozooplankton Monitoring at Ocean Basin Scale. Journal of Marine Biology and Aquaculture, 2015, 1, 1-11.	0.1	7
21	Biological Oceanography Needs New Tools To Automate Sample Analysis. Journal of Marine Biology and Aquaculture, 2015, 1, 1-2.	0.1	7
22	Dual adaptive control of bimanual manipulation with online fuzzy parameter tuning. , 2014, , .		4
23	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
24	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
25	An empirical assessment of the consistency of taxonomic identifications. Marine Biology Research, 2014, 10, 73-84.	0.3	44
26	Biomimetic joint/task space hybrid adaptive control for bimanual robotic manipulation. , 2014, , .		8
27	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
28	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
29	Adaptive training of cortical feature maps for a robot sensorimotor controller. Neural Networks, 2013, 44, 6-21.	3.3	0
30	MODELING THE HUMAN BLINK: A COMPUTATIONAL MODEL FOR USE WITHIN HUMANâ€”ROBOT INTERACTION. International Journal of Humanoid Robotics, 2013, 10, 1350006.	0.6	8
31	Oscillation and direction control strategies for a robotic fish. Underwater Technology, 2013, 31, 67-75.	0.3	1
32	Stochastic neural network control of rigid robot manipulator with passive last joint. , 2012, , .		0
33	Adaptive asymptotic tracking control of strict-feedback nonlinear discrete-time system with periodic time delay. , 2012, , .		0
34	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
35	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
36	Application of arachnid prey localisation theory for a robot sensorimotor controller. Neurocomputing, 2011, 74, 3335-3342.	3.5	9

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37	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
38	Time to automate identification. Nature, 2010, 467, 154-155.	13.7	222
39	BunnyBot: Humanoid Platform for Research and Teaching. Communications in Computer and Information Science, 2009, , 25-33.	0.4	0
40	Comparison of Human and Automatic Facial Emotions and Emotion Intensity Levels Recognition. , 2007, , .		7
41	Human and machine factors in algae monitoring performance. Ecological Informatics, 2007, 2, 361-366.	2.3	25
42	RAPID: Research on Automated Plankton Identification. Oceanography, 2007, 20, 172-187.	0.5	409
43	Discovering the Local Co-occurring Patterns in Visual Categorization. , 2006, , .		1
44	AS WE SEE IT* Automatic image analysis of plankton: future perspectives. Marine Ecology - Progress Series, 2006, 312, 297-309.	0.9	82
45	The management of electronics engineering design teams: linking tactics to changing conditions. Design Studies, 2000, 21, 75-97.	1.9	15
46	Constraining designers and their CAD tools. Design Studies, 1995, 16, 81-101.	1.9	13
47	Automatic fish population counting by artificial neural network. Aquaculture, 1995, 133, 45-55.	1.7	25
48	A tool for tracking engineering design in action. Design Studies, 1992, 13, 54-70.	1.9	5