Adrian Burlacu

List of Publications by Year
in descending order

50 papers	446 citations	1307594 7 h-index	1058476 14 g-index
52 all docs	52 docs citations	52 times ranked	309 citing authors

#	Article	IF	Citations
1	Orthogonal dual tensor method for solving the A X = X B sensor calibration problem. Mechanism and Machine Theory, 2016, 104, 382-404.	4.5	66
2	Computer Vision for the Visually Impaired: the Sound of Vision System. , 2017, , .		52
3	Dual tensors based solutions for rigid body motion parameterization. Mechanism and Machine Theory, 2014, 74, 390-412.	4.5	50
4	Stereo Vision Based Sensory Substitution for the Visually Impaired. Sensors, 2019, 19, 2771.	3.8	33
5	A fractional order control strategy for visual servoing systems. Mechatronics, 2013, 23, 848-855.	3.3	25
6	Defect Detection in Porcelain Industry Based on Deep Learning Techniques. , 2017, , .		15
7	Dual Lie Algebra Representations of the Rigid Body Motion. , 2014, , .		13
8	Predictive control architecture for real-time image moments based servoing of robot manipulators. Journal of Intelligent Manufacturing, 2014, 25, 1125-1134.	7.3	13
9	Robust ground plane detection and tracking in stereo sequences using camera orientation. , 2016, , .		12
10	Negative obstacle detection for wearable assistive devices for visually impaired. , 2017, , .		12
11	Image features detection using phase congruency and its application in visual servoing. , 2008, , .		10
12	Obstacle detection in stereo sequences using multiple representations of the disparity map. , 2016, , .		9
13	On the Evaluation of the Crazyflie Modular Quadcopter System. , 2019, , .		9
14	Path Planning for Autonomous Drones using 3D Rectangular Cuboid Decomposition. , 2019, , .		9
15	Reference Trajectory-Based Visual Predictive Control. Advanced Robotics, 2012, 26, 1035-1054.	1.8	8
16	Visual predictive control architecture based on image moments for manipulator robots. , 2011, , .		7
17	Multi-robot based implementation for a sample gathering problem. , 2013, , .		7
18	Intelligent Motion Planning and Control for Robotic Joints Using Bio-Inspired Spiking Neural Networks. International Journal of Humanoid Robotics, 2019, 16, 1950012.	1.1	7

#	Article	IF	Citations
19	Stereo vision based environment analysis and perception for autonomous driving applications. , 2018, , .		6
20	Optimal Indoor Goods Delivery Using Drones. , 2019, , .		6
21	Robotic Joint Control System based on Analogue Spiking Neural Networks and SMA Actuators. , 2019, , .		6
22	Bio-Inspired Control System for Fingers Actuated by Multiple SMA Actuators. Biomimetics, 2022, 7, 62.	3.3	6
23	On a Class of Multi-Robot Task Allocation Problems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 841-846.	0.4	5
24	Sensory Substitution for the Visually Impaired: A Study on the Usability of the Sound of Vision System in Outdoor Environments. Electronics (Switzerland), 2021, 10, 1619.	3.1	5
25	Dynamic simulation model for image based visual servo control systems. , 2008, , .		4
26	Optimal multi-agent planning solution for a sample gathering problem. , 2014, , .		4
27	Sample gathering problem for different robots with limited capacity. , 2016, , .		4
28	Stable hovering architecture for nanoquadcopter applications in indoor environments. , 2018, , .		4
29	Numerical Evaluation of Sample Gathering Solutions for Mobile Robots. Applied Sciences (Switzerland), 2019, 9, 791.	2.5	4
30	A different approach to solving the PBVS control problem. , 2020, , .		4
31	Vision-Guided Robot Manipulation Predictive Control for Automating Manufacturing. Studies in Computational Intelligence, 2014, , 313-328.	0.9	4
32	Real-time visual predictive control of manipulation systems. , 2011, , .		3
33	Iterative closest point problem: A tensorial approach to finding the initial guess. , 2016, , .		3
34	Modeling of visual servo open-loop for robot manipulators. , 2008, , .		2
35	Bioinspired SNN for robotic joint control. , 2020, , .		2
36	Some AI Based Approaches on Mobile Robots Motion Planning. Solid State Phenomena, 2010, 166-167, 101-108.	0.3	1

#	Article	IF	Citations
37	Unified point and image moment features for image based predictive visual servoing systems. , 2012, , .		1
38	Trading optimality for computational feasibility in a sample gathering problem. , 2014, , .		1
39	Ground geometry assessment in complex stereo vision based applications. , 2017, , .		1
40	Collision Free Path Planning for Unmanned Aerial Vehicles in Environments with Dynamic Obstacles. , 2020, , .		1
41	Image moments based visual control algorithm for servoing systems. , 2009, , .		0
42	An Hausdorff distance based approach for evaluation of image moments in servoing applications. , 2010, , .		0
43	Visual control architecture of servoing systems based on image moments. , 2010, , .		0
44	On Board Exact Solution to the Full Body Relative Orbital Motion Problem. , 2014, , .		0
45	Kinematic evaluation of articulated rigid objects. , 2014, , .		0
46	A knowledge based decision support system for case oriented diagnosis of diabetic cats. Journal of Biotechnology, 2014, 185, S37.	3.8	0
47	Numerical simulations and comparative study for auction-based sample gathering solutions. , 2015, , .		0
48	On some implementation issues in robot-to-area allocation problems. , 2016, , .		0
49	Wahba Problem in SO(3) Dual Algebra. , 2016, , .		0
50	Ground plane detection for wearable assistive devices for the visually impaired. , 2021, , .		0