

Zoran VukiÄ

List of Publications by Year in descending order

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67
papers

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933447

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times ranked

648
citing authors

#	ARTICLE	IF	CITATIONS
1	Coordinated Navigation of Surface and Underwater Marine Robotic Vehicles for Ocean Sampling and Environmental Monitoring. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1174-1184.	5.8	123
2	Adaptive fuzzy ship autopilot for track-keeping. Control Engineering Practice, 2003, 11, 433-443.	5.5	107
3	Fast in-field identification of unmanned marine vehicles. Journal of Field Robotics, 2011, 28, 101-120.	6.0	46
4	Speed and Active Power Control of Hydro Turbine Unit. IEEE Transactions on Energy Conversion, 2005, 20, 424-434.	5.2	45
5	Underwater Vehicle Localization with Complementary Filter: Performance Analysis in the Shallow Water Environment. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 68, 373-386.	3.4	36
6	CADDY – Cognitive Autonomous Diving Buddy: Two Years of Underwater Human-Robot Interaction. Marine Technology Society Journal, 2016, 50, 54-66.	0.4	21
7	Methodology of Concept Control Synthesis to Avoid Unmoving and Moving Obstacles (II). Journal of Intelligent and Robotic Systems: Theory and Applications, 2006, 45, 267-294.	3.4	18
8	A fuzzy track-keeping autopilot for ship steering. Journal of Marine Engineering and Technology, 2003, 2, 23-35.	4.1	16
9	Marine vehicles' line following controller tuning through self-oscillation experiments. , 2009, , .		15
10	Guidance and control of an overactuated autonomous surface platform for diver tracking. , 2013, , .		15
11	Convolutional Neural Network Architectures for Sonar-Based Diver Detection and Tracking. , 2019, , .		15
12	Novel method for underwater navigation aiding using a companion underwater robot as a guiding platforms. , 2013, , .		14
13	AUV IDENTIFICATION BY USE OF SELF-OSCILLATIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 181-186.	0.4	13
14	Overview of the FP7 project “CADDY — Cognitive Autonomous Diving Buddy”. , 2015, , .		13
15	CADDY project, year 3: The final validation trials. , 2017, , .		12
16	Improving fault handling in marine vehicle course-keeping systems. IEEE Robotics and Automation Magazine, 1999, 6, 39-52.	2.0	11
17	Teleoperated trajectory tracking of remotely operated vehicles using spatial auditory interface. IFAC-PapersOnLine, 2016, 49, 97-102.	0.9	11
18	Teleoperated path following and trajectory tracking of unmanned vehicles using spatial auditory guidance system. Applied Acoustics, 2018, 129, 72-85.	3.3	10

#	ARTICLE	IF	CITATIONS
19	ROV AUTONOMIZATION - YAW IDENTIFICATION AND AUTOMARINE MODULE ARCHITECTURE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 175-180.	0.4	9
20	Heuristics pool for hyper-heuristic selection during task allocation in a heterogeneous swarm of marine robots. IFAC-PapersOnLine, 2018, 51, 412-417.	0.9	8
21	Improved Fuzzy Autopilot for Track-Keeping. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 123-128.	0.4	7
22	A KINEMATIC VIRTUAL POTENTIALS TRAJECTORY PLANNER FOR AUV-S. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 90-95.	0.4	7
23	Methodology of Concept Control Synthesis to Avoid Unmoving and Moving Obstacles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2003, 37, 21-41.	3.4	6
24	Marine Diesel Engine Faults Diagnosis Based on Observed Symptoms and Expert Knowledge. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 133-138.	0.4	6
25	Hand gesture recognition from multibeam sonar imagery**This work has been done within the scope of CADDY, a collaborative project funded by the European Community's Seventh Framework Programme FP7-Challenge 2: Cognitive Systems and Robotics-under grant agreement 611373.. IFAC-PapersOnLine, 2016, 49, 470-475.	0.9	6
26	Effects of rotors on UUV trajectory planning via the virtual potentials method. , 2008, , .		5
27	Control of UUVs Based upon Mathematical Models Obtained from Self-Oscillations Experiments. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 13-18.	0.4	5
28	CADDY Project, Year 1: Overview of Technological Developments and Cooperative Behaviours~... IFAC-PapersOnLine, 2015, 48, 125-130.	0.9	5
29	Range- only navigation at maximizing system observability by using extremum seekinga —a —This work is supported by the European Commission under the FP7 ICT project "CADDY " Cognitive Autonomous Diving Buddy" under Grant Agreement No. 611373 and by Office of Naval Research Global under grant N62909-14-1-N076 (DINARO). Filip Mandić is financed by the Croatian Science Foundation through the Project for the young researcher career development.. IFAC-PapersOnLine, 2015, 48, 101-106.	0.9	5
30	Full-scale identification by use of self-oscillations for overactuated marine surface vehicles. International Journal of Adaptive Control and Signal Processing, 2017, 31, 674-692.	4.1	5
31	Improved line-of-sight guidance for cruising underwater vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 447-452.	0.4	4
32	Introduction of Rotors to a Virtual Potentials UUV Trajectory Planning Framework. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 196-201.	0.4	4
33	Tuning Marine Vehicles' Guidance Controllers through Self-Oscillation Experiments. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 115-120.	0.4	4
34	Developing the Croatian Underwater Robotics Research Potential. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 431-436.	0.4	4
35	Sonar aided navigation and control of small UUVs. , 2011, , .		4
36	Interpretation of divers' symbolic language by using hidden Markov models. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
37	Energy-efficient environmentally adaptive consensus-based formation control with collision avoidance for multi-vehicle systems. IFAC-PapersOnLine, 2016, 49, 361-366.	0.9	4
38	Micro ROV simulator. Proceedings ELMAR, 2007, , .	0.0	3
39	Localization of autonomous underwater vehicles by sonar image processing. Proceedings ELMAR, 2007, , .	0.0	3
40	A MOOS-based online trajectory Re-planning system for AUVs. , 2009, , .		3
41	Distance keeping for underwater vehicles - tuning Kalman filters using self-oscillations. , 2009, , .		3
42	Neuro-fuzzy modelling of marine diesel engine cylinder dynamics. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 95-100.	0.4	2
43	Autonomous Vehicle Obstacle Avoiding and Goal Position Reaching by Behavioral Cloning. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	2
44	AUV FORMATIONS ACHIEVED BY VIRTUAL POTENTIALS TRAJECTORY PLANNING IN A SIMULATED ENVIRONMENT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 135-140.	0.4	2
45	Heuristic Parameter Tuning Procedures for a Virtual Potential Based AUV Trajectory Planner. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 328-333.	0.4	2
46	Laboratory Platforms for Dynamic Positioning â€” Modeling and Identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 126-131.	0.4	2
47	A modular approach to system integration in underwater robotics. , 2011, , .		2
48	Multibeam Sonar-Based Navigation of Small UUVs for MCM Purposes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14754-14759.	0.4	2
49	Quick identification and dynamic positioning controller design for a small-scale ship model. , 2012, , .		2
50	CADDY Project, Year 2: The First Validation Trials**This work is supported by the European Commission under the FP7-ICT project "CADDY - Cognitive Autonomous Diving Buddy" Grant Agreement No. 611373.. IFAC-PapersOnLine, 2016, 49, 420-425.	0.9	2
51	Towards Enhancing the Navigational Accuracy of UUVs Through Collaboration of Multiple Heterogeneous Marine Vehicles. , 2018, , .		2
52	Breaking the Surface - lessons learned from over a decade of interdisciplinary workshops. , 2021, , .		2
53	Adaptive Fuzzy Ship Autopilot for Track-Keeping. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 129-134.	0.4	1
54	Behavioral Cloning and Obstacle Avoiding for Two Different Autonomous Vehicles. , 2006, , .		1

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55	Geometric Primitives-Based AUV Path Planning In Cluttered Waterspaces. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 22-27.	0.4	1
56	Decentralized control functions in trajectory guidance of a non-holonomic AUV. , 2010, , .		1
57	Dynamic positioning of a diver tracking surface platform. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4228-4233.	0.4	1
58	MECHANICAL DESIGN OF AN AUTONOMOUS MARINE ROBOTIC SYSTEM FOR INTERACTION WITH DIVERS. Brodogradnja, 2016, 67, 73-86.	1.9	1
59	Automarine module - the VideoRay Pro II autonomization module. , 2007, , .		0
60	To avoid unmoving and moving obstacles using MKBC algorithm Path planning. , 2009, , .		0
61	A Measure of Quality of Control for 2D AUV Formations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 299-306.	0.4	0
62	Distributed Systems in Control and Navigation of Small Underwater Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 224-228.	0.4	0
63	Application of widget-based consumer programming techniques in autonomous marine vehicle control system design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 109-114.	0.4	0
64	User interface for interaction with heterogeneous vehicles for cyber-physical systems. , 2016, , .		0
65	Behavioral Cloning and Obstacle Avoiding for Two Different Autonomous Vehicles. , 2006, , .		0
66	Autonomous vehicle obstacle avoiding and goal position reaching by virtual obstacle. , 2007, , .		0
67	Robot vehicle path planning including a tracking of the closest moving obstacle. , 2009, , .		0