List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Trajectory Tracking for Autonomous Vehicles: An Integrated Approach to Guidance and Control. Journal of Guidance, Control, and Dynamics, 1998, 21, 29-38.	2.8	279
2	lssues, progress and new results in robust adaptive control. International Journal of Adaptive Control and Signal Processing, 2006, 20, 519-579.	4.1	211
3	A velocity algorithm for the implementation of gain-scheduled controllers. Automatica, 1995, 31, 1185-1191.	5.0	175
4	Dynamic positioning and way-point tracking of underactuated AUVs in the presence of ocean currents. International Journal of Control, 2007, 80, 1092-1108.	1.9	167
5	Path Following for Small Unmanned Aerial Vehicles Using L1 Adaptive Augmentation of Commercial Autopilots. Journal of Guidance, Control, and Dynamics, 2010, 33, 550-564.	2.8	137
6	Challenges and future trends in marine robotics. Annual Reviews in Control, 2018, 46, 350-368.	7.9	130
7	Environmental monitoring using autonomous vehicles: a survey of recent searching techniques. Current Opinion in Biotechnology, 2017, 45, 76-84.	6.6	119
8	Study and implementation of an EKF GIB-based underwater positioning system. Control Engineering Practice, 2007, 15, 689-701.	5.5	111
9	Cooperative control of multiple surface vessels in the presence of ocean currents and parametric model uncertainty. International Journal of Robust and Nonlinear Control, 2010, 20, 1549-1565.	3.7	109
10	Synchronization of Multiagent Systems Using Event-Triggered and Self-Triggered Broadcasts. IEEE Transactions on Automatic Control, 2017, 62, 4741-4746.	5.7	91
11	Estimation of Spatially Distributed Processes Using Mobile Spatially Distributed Sensor Network. SIAM Journal on Control and Optimization, 2009, 48, 266-291.	2.1	88
12	Range-Based Underwater Vehicle Localization in the Presence of Unknown Ocean Currents: Theory and Experiments. IEEE Transactions on Control Systems Technology, 2016, 24, 122-139.	5.2	84
13	Robust multiple model adaptive control (RMMAC): a case study. International Journal of Adaptive Control and Signal Processing, 2007, 21, 1-30.	4.1	82
14	Time-Critical Cooperative Path Following of Multiple Unmanned Aerial Vehicles over Time-Varying Networks. Journal of Guidance, Control, and Dynamics, 2013, 36, 499-516.	2.8	80
15	Shallow water hydrothermal vent field fluids and communities of the D. Joã0 de Castro Seamount (Azores). Chemical Geology, 2005, 224, 153-168.	3.3	75
16	Trajectory Tracking Nonlinear Model Predictive Control for Autonomous Surface Craft. IEEE Transactions on Control Systems Technology, 2014, 22, 2160-2175.	5.2	75
17	Optimal Sensor Placement for Acoustic Underwater Target Positioning With Range-Only Measurements. IEEE Journal of Oceanic Engineering, 2016, 41, 620-643.	3.8	75
18	Optimal Sensor Placement for Multiple Target Positioning with Range-Only Measurements in Two-Dimensional Scenarios. Sensors, 2013, 13, 10674-10710.	3.8	73

#	Article	IF	CITATIONS
19	On the design of gain-scheduled trajectory tracking controllers. International Journal of Robust and Nonlinear Control, 2002, 12, 797-839.	3.7	72
20	Coordinated path-following control of multiple underactuated autonomous vehicles in the presence of communication failures. , 2006, , .		72
21	Nonsingular path following control of a unicycle in the presence of parametric modelling uncertainties. International Journal of Robust and Nonlinear Control, 2006, 16, 485-503.	3.7	70
22	Vehicle and Mission Control of the DELFIM Autonomous Surface Craft. , 2006, , .		69
23	Sensor Networks for Optimal Target Localization with Bearings-Only Measurements in Constrained Three-Dimensional Scenarios. Sensors, 2013, 13, 10386-10417.	3.8	69
24	Non-linear co-ordinated path following control of multiple wheeled robots with bidirectional communication constraints. International Journal of Adaptive Control and Signal Processing, 2007, 21, 133-157.	4.1	67
25	Depth control of the INFANTE AUV using gain-scheduled reduced order output feedback. Control Engineering Practice, 2007, 15, 883-895.	5.5	65
26	Cooperative control of multiple surface vessels with discreteâ€ŧime periodic communications. International Journal of Robust and Nonlinear Control, 2012, 22, 398-419.	3.7	65
27	Energy-Optimal Motion Planning for Multiple Robotic Vehicles With Collision Avoidance. IEEE Transactions on Control Systems Technology, 2016, 24, 867-883.	5.2	63
28	Time-Critical Cooperative Control of Multiple Autonomous Vehicles: Robust Distributed Strategies for Path-Following Control and Time-Coordination over Dynamic Communications Networks. IEEE Control Systems, 2012, 32, 49-73.	0.8	62
29	Coordinated Path Following for Time-Critical Missions of Multiple UAVs via L1 Adaptive Output Feedback Controllers. , 2007, , .		61
30	Investigation of Normal Force and Moment Coefficients for an AUV at Nonlinear Angle of Attack and Sideslip Range. IEEE Journal of Oceanic Engineering, 2008, 33, 538-549.	3.8	61
31	Navigation system design using time-varying complementary filters. IEEE Transactions on Aerospace and Electronic Systems, 2000, 36, 1099-1114.	4.7	54
32	A Bottom-Following Preview Controller for Autonomous Underwater Vehicles. IEEE Transactions on Control Systems Technology, 2009, 17, 257-266.	5.2	54
33	Cooperative Path Following of Multiple Multirotors Over Time-Varying Networks. IEEE Transactions on Automation Science and Engineering, 2015, 12, 945-957.	5.2	54
34	Dynamic positioning and way-point tracking of underactuated AUVs in the presence of ocean currents. , 0, , .		50
35	Linear parametrically varying systems with brief instabilities: an application to vision/inertial navigation. IEEE Transactions on Aerospace and Electronic Systems, 2004, 40, 889-902.	4.7	49
36	Robust particle filter formulations with application to terrainâ€aided navigation. International Journal of Adaptive Control and Signal Processing, 2017, 31, 608-651.	4.1	47

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37	Robust Dynamic Positioning of offshore vessels using mixed-μ synthesis modeling, design, and practice. Ocean Engineering, 2017, 129, 389-400.	4.3	46
38	Circular formation control for cooperative target tracking with limited information. Journal of the Franklin Institute, 2019, 356, 1771-1788.	3.4	46
39	Control of the INFANTE AUV using gain scheduled static output feedback. Control Engineering Practice, 2004, 12, 1501-1509.	5.5	45
40	Investigation of a method for predicting AUV derivatives. Ocean Engineering, 2008, 35, 1627-1636.	4.3	44
41	Self-Triggered Output Feedback Control of Linear Plants in the Presence of Unknown Disturbances. IEEE Transactions on Automatic Control, 2014, 59, 3040-3045.	5.7	44
42	Coordinated path following control of multiple wheeled robots using linearization techniques. International Journal of Systems Science, 2006, 37, 399-414.	5.5	43
43	Switched seesaw control for the stabilization of underactuated vehicles. Automatica, 2007, 43, 1997-2008.	5.0	43
44	Navigation, guidance and control of AUVs: An application to the MARIUS vehicle. Control Engineering Practice, 1996, 4, 401-409.	5.5	42
45	An Observability Metric for Underwater Vehicle Localization Using Range Measurements. Sensors, 2013, 13, 16191-16215.	3.8	42
46	Coordinated path-following control for nonlinear systems with logic-based communication. , 2007, , .		40
47	Normalized coprime factorizations for linear time-varying systems. Systems and Control Letters, 1992, 18, 455-465.	2.3	36
48	Geometric 3D Path-Following Control for a Fixed-Wing UAV on SO(3). , 2011, , .		36
49	Multiple model adaptive wave filtering for dynamic positioning of marine vessels. , 2012, , .		36
50	Distributed state estimation for discrete-time linear time invariant systems: A survey. Annual Reviews in Control, 2019, 48, 36-56.	7.9	36
51	Cooperative Autonomous Marine Vehicle motion control in the scope of the EU GREX Project: Theory and Practice. , 2009, , .		34
52	Application of nonlinear filtering to navigation system design using passive sensors. IEEE Transactions on Aerospace and Electronic Systems, 2001, 37, 158-172.	4.7	33
53	Joint ASV/AUV range-based formation control: Theory and experimental results. , 2013, , .		33
54	Vehicle and mission control of single and multiple autonomous marine robots. , 2006, , 353-386.		33

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55	Synchronization in multi-agent systems with switching topologies and non-homogeneous communication delays. , 2007, , .		32
56	Safe Coordinated Maneuvering of Teams of Multirotor Unmanned Aerial Vehicles: A Cooperative Control Framework for Multivehicle, Time-Critical Missions. IEEE Control Systems, 2016, 36, 59-82.	0.8	32
57	MARIUS: an autonomous underwater vehicle for coastal oceanography. IEEE Robotics and Automation Magazine, 1997, 4, 46-59.	2.0	31
58	Mission control of the MARIUS autonomous underwater vehicle: system design, implementation and sea trials. International Journal of Systems Science, 1998, 29, 1065-1080.	5.5	31
59	Nonlinear adaptive control of an underwater towed vehicle. Ocean Engineering, 2010, 37, 1193-1220.	4.3	31
60	The MEDUSA class of autonomous marine vehicles and their role in EU projects. , 2016, , .		31
61	Geophysical Navigation of Autonomous Underwater Vehicles Using Geomagnetic Information*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 178-183.	0.4	30
62	Multiple Model Adaptive Estimation and model identification usign a Minimum Energy criterion. , 2009,		29
63	Cooperative Path-Following of Underactuated Autonomous Marine Vehicles with Logic-based Communication. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 107-112.	0.4	27
64	Observability metric for the relative localization of AUVs based on range and depth measurements: Theory and experiments. , 2011, , .		27
65	A Novel Particle Filter Formulation with Application to Terrain-Aided Navigation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 132-139.	0.4	27
66	Strong, simultaneous, and reliable stabilization of finite-dimensional linear time-varying plants. IEEE Transactions on Automatic Control, 1988, 33, 1158-1161.	5.7	26
67	Regulation of a nonholonomic autonomous underwater vehicle with parametric modeling uncertainty using Lyapunov functions. , 0, , .		26
68	Multiple autonomous surface vehicle motion planning for cooperative range-based underwater target localization. Annual Reviews in Control, 2018, 46, 326-342.	7.9	26
69	Control of an AUV in the vertical and horizontal planes: system design and tests at sea. Transactions of the Institute of Measurement and Control, 1997, 19, 126-138.	1.7	25
70	Cooperative Control of Multiple Marine Vehicles Theoretical Challenges and Practical Issues. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 412-417.	0.4	25
71	A distributed formation-based odor source localization algorithm - design, implementation, and wind tunnel evaluation. , 2015, , .		25
72	Widely Scalable Mobile Underwater Sonar Technology: An Overview of the H2020 WiMUST Project. Marine Technology Society Journal, 2016, 50, 42-53.	0.4	25

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73	Cooperative path following of constrained autonomous vehicles with model predictive control and eventâ€triggered communications. International Journal of Robust and Nonlinear Control, 2020, 30, 2644-2670.	3.7	25
74	WiMUST: A cooperative marine robotic system for autonomous geotechnical surveys. Journal of Field Robotics, 2021, 38, 268-288.	6.0	25
75	A Small Autonomous Surface Vehicle for Ocean Color Remote Sensing. IEEE Journal of Oceanic Engineering, 2007, 32, 353-364.	3.8	23
76	Stability Analysis of Robust Multiple Model Adaptive Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 350-355.	0.4	23
77	On the robust stabilizability of uncertain linear time-invariant plants using nonlinear time-varying controllers. Automatica, 1987, 23, 617-624.	5.0	22
78	Development of a flight test system for unmanned air vehicles. IEEE Control Systems, 1999, 19, 55-65.	0.8	22
79	Optimal sensor placement for underwater positioning with uncertainty in the target location. , 2011, , .		22
80	Regulation of a nonholonomic dynamic wheeled mobile robot with parametric modeling uncertainty using Lyapunov functions. , 0, , .		21
81	A general framework for multiple vehicle time-coordinated path following control. , 2009, , .		21
82	Marine Vehicle Path Following Using Inner-Outer Loop Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 38-43.	0.4	21
83	A novel methodology for robust dynamic positioning of marine vessels: Theory and experiments. , 2013, , .		21
84	Optimized design of an autonomous underwater vehicle, for exploration in the Caribbean Sea. Ocean Engineering, 2019, 187, 106184.	4.3	21
85	CADDY—Cognitive Autonomous Diving Buddy: Two Years of Underwater Human-Robot Interaction. Marine Technology Society Journal, 2016, 50, 54-66.	0.4	21
86	A unified ship manoeuvring model with a nonlinear model predictive controller for path following in regular waves. Ocean Engineering, 2022, 243, 110165.	4.3	21
87	The CO ³ AUVs (Cooperative Cognitive Control for Autonomous Underwater) Tj ETQq1 1	0.784314	rgBT /Overloo
88	A Lyapunov-based approach for Time-Coordinated 3D Path-Following of multiple quadrotors. , 2012, , .		20
89	Triangular formation control using range measurements: An application to marine robotic vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 112-117.	0.4	20
90	Formation Control in the scope of the MORPH project. Part I: Theoretical Foundations. IFAC-PapersOnLine, 2015, 48, 244-249.	0.9	20

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91	Coordinated Path Following Control of Multiple Wheeled Robots with Directed Communication Links. , 0, , .		19
92	The widely scalable Mobile Underwater Sonar Technology (WiMUST) project: An overview. , 2015, , .		19
93	A Decentralized Strategy for Multirobot Sampling/Patrolling: Theory and Experiments. IEEE Transactions on Control Systems Technology, 2015, 23, 313-322.	5.2	19
94	Observability analysis of 3D AUV trimming trajectories in the presence of ocean currents using range and depth measurements. Annual Reviews in Control, 2015, 40, 142-156.	7.9	19
95	Self-triggered output feedback control of linear plants. , 2011, , .		18
96	Continuous-time consensus with discrete-time communications. Systems and Control Letters, 2012, 61, 788-796.	2.3	18
97	Cooperative formation control in the scope of the EC MORPH project: Theory and experiments. , 2015, , \cdot		18
98	The European Project MORPH: Distributed UUV Systems for Multimodal, 3D Underwater Surveys. Marine Technology Society Journal, 2016, 50, 26-41.	0.4	18
99	Cooperative control of small UAVs for naval applications. , 2004, , .		17
100	Integrated Motion Planning, Control, and Estimation for Range-Based Marine Vehicle Positioning and Target Localization. IFAC-PapersOnLine, 2016, 49, 34-40.	0.9	17
101	A novel methodology for adaptive Wave Filtering of marine vessels: Theory and experiments?. , 2013, , .		16
102	Underwater Single-Beacon Localization: Optimal Trajectory Planning and Minimum-Energy Estimation. IFAC-PapersOnLine, 2015, 48, 155-160.	0.9	16
103	Towards 3-D distributed odor source localization: An extended graph-based formation control algorithm for plume tracking. , 2016, , .		16
104	Stabilization of the Extended Nonholonomic Double Integrator Via Logic-Based Hybrid Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 351-356.	0.4	15
105	Formation Control in the scope of the MORPH project. Part II: Implementation and Resultsâ~ IFAC-PapersOnLine, 2015, 48, 250-255.	0.9	15
106	AUV terrain-aided navigation using a Doppler velocity logger. Annual Reviews in Control, 2016, 42, 166-176.	7.9	15
107	Eventâ€triggered output synchronization of heterogeneous multiâ€agent systems. International Journal of Robust and Nonlinear Control, 2017, 27, 1302-1338.	3.7	15
108	Clobal stabilization of an underactuated autonomous underwater vehicle via logic-based switching. , 0, , .		14

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109	Self-triggered state feedback control of linear plants under bounded disturbances. , 2010, , .		14
110	Selfâ€ŧriggered stateâ€feedback control of linear plants under bounded disturbances. International Journal of Robust and Nonlinear Control, 2015, 25, 1230-1246.	3.7	14
111	Navigation, Guidance and Control of Underwater Vehicles within the Widely scalable Mobile Underwater Sonar Technology Project: an overviewâ~ IFAC-PapersOnLine, 2015, 48, 189-193.	0.9	14
112	Range-based target localization and pursuit with autonomous vehicles: An approach using posterior CRLB and model predictive control. Robotics and Autonomous Systems, 2020, 132, 103608.	5.1	14
113	Optimal Multivehicle Motion Planning Using Bernstein Approximants. IEEE Transactions on Automatic Control, 2021, 66, 1453-1467.	5.7	14
114	A Distributed Luenberger Observer for Linear State Feedback Systems With Quantized and Rate-Limited Communications. IEEE Transactions on Automatic Control, 2021, 66, 3922-3937.	5.7	14
115	GEOPHYSICAL NAVIGATION OF AUTONOMOUS UNDERWATER VEHICLES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 117-122.	0.4	13
116	Time-Coordinated Path Following of Multiple UAVs over Time-Varying Networks using L1 Adaptation. , 2008, , .		13
117	A new approach to multi-robot harbour patrolling: Theory and experiments. , 2012, , .		13
118	The MORPH concept and its application in marine research. , 2013, , .		13
119	Overview of the FP7 project "CADDY — Cognitive Autonomous Diving Buddy". , 2015, , .		13
120	Cooperative Distributed Estimation and Control of Multiple Autonomous Vehicles for Range-Based Underwater Target Localization and Pursuit. IEEE Transactions on Control Systems Technology, 2022, 30, 1433-1447.	5.2	13
121	Robust Dynamic Positioning of Offshore Vessels using Mixed-μ Synthesis Part I: A Control System Design Methodology. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 177-182.	0.4	12
122	Cooperative Motion Planning for Multiple Autonomous Marine Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 244-249.	0.4	12
123	Magnetic Navigation and Tracking of Underwater Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 239-244.	0.4	12
124	CADDY project, year 3: The final validation trials. , 2017, , .		12
125	Optimal Trajectory Planning for Autonomous Drone Cinematography. , 2019, , .		12
126	Control of the Infante AUV Using Gain Scheduled Static Output Feedback 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 127-132.	0.4	11

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127	Coordinated control of multiple vehicles with discrete-time periodic communications. , 2007, , .		11
128	Further results on plant parameter identification using continuous-time multiple-model adaptive estimators. , 2009, , .		11
129	Observer based self-triggered control of linear plants with unknown disturbances. , 2012, , .		11
130	Adaptive Wave Filtering for Dynamic Positioning of Marine Vessels using Maximum Likelihood Identification: Theory and Experiments. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 203-208.	0.4	11
131	Underwater Target Positioning with a Single Acoustic Sensor. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 233-238.	0.4	11
132	Development and validation of blue ray, an optical modem for the MEDUSA class AUVs. , 2016, , .		11
133	Target Tracking via a Circular Formation of Unicycles * *This work was supported by FUI CAP2018 and H2020-ICT-2014-1/GA 645141 WIMUST projects and ROBOTEX (ANR-10-EQPX-44-01). IFAC-PapersOnLine, 2017, 50, 5782-5787.	0.9	11
134	Detection of mooring line failures using Dynamic Hypothesis Testing. Ocean Engineering, 2018, 159, 496-503.	4.3	11
135	Cooperative Path Following of Autonomous Vehicles with Model Predictive Control and Event Triggered Communications. IFAC-PapersOnLine, 2018, 51, 562-567.	0.9	11
136	Pointwise stabilizability of families of linear time-invariant plants. IEEE Transactions on Automatic Control, 1988, 33, 1161-1165.	5.7	10
137	Estimation of Attitude and Position from Range-Only Measurements using Geometric Descent Optimization on the Special Euclidean Group. , 2006, , .		10
138	Optimal design of observable multi-agent networks: A structural system approach. , 2014, , .		10
139	Bernstein Polynomial-Based Method for Solving Optimal Trajectory Generation Problems. Sensors, 2022, 22, 1869.	3.8	10
140	DYNAMIC POSITIONING OF AN UNDERACTUATED AUV IN THE PRESENCE OF A CONSTANT UNKNOWN OCEAN CURRENT DISTURBANCE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 283-288.	0.4	9
141	NONLINEAR MOTION CONTROL OF MULTIPLE AUTONOMOUS UNDERWATER VEHICLES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 75-80.	0.4	9
142	Identification and Convergence Analysis of a Class of Continuous-Time Multiple-Model Adaptive Estimators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8605-8610.	0.4	9
143	Coordinated Path Following of Multiple UAVs for Time-Critical Missions in the Presence of Time-Varying Communication Topologies. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 16015-16020.	0.4	9
144	A performance based model-set design strategy for Multiple Model Adaptive Estimation. , 2009, , .		9

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145	Temporally and Spatially Deconflicted Path Planning for Multiple Autonomous Marine Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 376-381.	0.4	9
146	Optimal Sensor Placement for Multiple Underwater Target Localization with Acoustic Range Measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12825-12832.	0.4	9
147	Cooperative AUV motion planning using terrain information. , 2013, , .		9
148	Flexible triangular formation keeping of marine robotic vehicles using range measurements 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5145-5150.	0.4	9
149	Marine Vehicles with Streamers for Geotechnical Surveys: Modeling, Positioning, and Control**This research was supported by the EC WiMUST project (Grant no. 645141) and the Portuguese FCT funding program [PEst-OE/EEI/LA0009/2011]. The second author was supported by the Brasilian Navy during his sabbatical leave at the ISR/IST. Lisbon. Portugal IFAC-PapersOnLine. 2016. 49. 458-464.	0.9	9
150	Multiple underwater target positioning with optimally placed acoustic surface sensor networks. International Journal of Distributed Sensor Networks, 2018, 14, 155014771877323.	2.2	9
151	AUV geophysical navigation using magnetic data $\hat{a} \in$ " The MEDUSA GN system. , 2018, , .		9
152	Consistent approximation of optimal control problems using Bernstein polynomials. , 2019, , .		9
153	Underwater Acoustic Modems with Synchronous Chip-Scale Atomic Clocks for Scalable Tasks of AUV Underwater Positioning. Gyroscopy and Navigation, 2019, 10, 313-321.	1.3	9
154	Robust Dynamic Positioning of Offshore Vessels using Mixed-μ Synthesis Part II: Simulation and Experimental Results. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 183-188.	0.4	9
155	Real-time Trajectory Generation for Multiple Drones using Bézier Curves. IFAC-PapersOnLine, 2020, 53, 9276-9281.	0.9	9
156	LPV systems with brief instabilities: Application to integrated vision/IMU navigation. , 2001, , .		8
157	Path planning for multiple marine vehicles. , 2009, , .		8
158	Self-triggered observer based control of linear plants*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10074-10079.	0.4	8
159	Constrained motion planning for multiple vehicles on SE(3). , 2012, , .		8
160	An Underwater Acoustic Localisation System for Assisted Human Diving Operations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 206-211.	0.4	8
161	AUV Terrain-Aided Doppler Navigation using Complementary Filtering. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 313-318.	0.4	8
162	Observability analysis of 2D single beacon navigation in the presence of constant currents for two classes of maneuvers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 227-232.	0.4	8

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163	Output synchronization of heterogeneous LTI plants with event-triggered communication. , 2014, , .		8
164	Observability Analysis of 3D AUV Trimming Trajectories in the Presence of Ocean Currents using Single Beacon Navigation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4222-4227.	0.4	8
165	AUV Terrain-Aided Navigation using a Doppler Velocity Loggerâ~ IFAC-PapersOnLine, 2015, 48, 137-142.	0.9	8
166	A Graph-Based Formation Algorithm for Odor Plume Tracing. Springer Tracts in Advanced Robotics, 2016, , 255-269.	0.4	8
167	A design method for distributed luenberger observers. , 2017, , .		8
168	Input-Constrained Path Following for Autonomous Marine Vehicles with a Global Region of Attraction. IFAC-PapersOnLine, 2018, 51, 348-353.	0.9	8
169	A Comparison of Nonlinear Filters for Underwater Geomagnetic Navigation. , 2020, , .		8
170	Efficient Bathymetric SLAM With Invalid Loop Closure Identification. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2570-2580.	5.8	8
171	Nonlinear coordinated path following control of multiple wheeled robots with communication constraints. , 0, , .		7
172	Underwater vehicle technology in the European Research Project VENUS. Underwater Technology, 2009, 28, 175-185.	0.3	7
173	EU project MORPH: Current Status After 3 Years of Cooperation Under and Above Water. IFAC-PapersOnLine, 2015, 48, 119-124.	0.9	7
174	Magnetic signal processing methods with application to geophysical navigation of marine robotic vehicles. , 2016, , .		7
175	Data-driven control in marine systems. Annual Reviews in Control, 2018, 46, 343-349.	7.9	7
176	A Distributed Algorithm for Real-Time Multi-Drone Collision-Free Trajectory Replanning. Sensors, 2022, 22, 1855.	3.8	7
177	Normalized coprime factorizations and the graph metric for linear time-varying systems. , 1990, , .		6
178	Coordinated path following control of multiple wheeled robots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 382-387.	0.4	6
179	Coordinated Payload Delivery using High Glide Parafoil Systems. , 2005, , .		6
180	Nonlinear adaptive depth tracking and attitude control of an underwater towed vehicle. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 211-216.	0.4	6

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181	A Multiple Model Adaptive Wave Filter for Dynamic Ship Positioning. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 120-125.	0.4	6
182	Cooperative Cognitive Control for Autonomous Underwater Vehicles (CO3AUVs): overview and progresses in the 3rd project year. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 361-366.	0.4	6
183	Trajectory tracking nonlinear model predictive control for autonomous surface craft. , 2013, , .		6
184	Optimal Sensor Trajectories for Mobile Underwater Target Positioning with Noisy Range Measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5139-5144.	0.4	6
185	Time-Critical Cooperative Path Following of Multiple UAVs: Case Studies. , 2015, , 209-233.		6
186	An Integrated System for Geophysical Navigation of Autonomous Underwater Vehicles IFAC-PapersOnLine, 2018, 51, 293-298.	0.9	6
187	Range-based underwater target localization using an autonomous surface vehicle: Observability analysis. , 2018, , .		6
188	Online Range-Based SLAM Using B-Spline Surfaces. IEEE Robotics and Automation Letters, 2021, 6, 1958-1965.	5.1	6
189	The graph topology for linear plants with applications to nonlinear robust stabilization. IEEE Transactions on Automatic Control, 1993, 38, 298-302.	5.7	5
190	A Bottom-Following Preview Controller for Autonomous Underwater Vehicles. , 2006, , .		5
191	Convergence properties of a Continuous-Time Multiple-Model Adaptive Estimator. , 2007, , .		5
192	Multiple Marine Vehicle Deconflicted Path Planning with Currents and Communication Constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 491-496.	0.4	5
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194	Surface sensor networks for Underwater Vehicle positioning with bearings-only measurements. , 2012, , .		5
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