

Antônio M Pascoal

List of Publications by Year in descending order

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Version: 2024-02-01

279
papers

6,190
citations

76326

40
h-index

118850

62
g-index

283
all docs

283
docs citations

283
times ranked

3423
citing authors

#	ARTICLE	IF	CITATIONS
1	Consensus/synchronisation of networked nonlinear multiple agent systems with event-triggered communications. <i>International Journal of Control</i> , 2022, 95, 1305-1314.	1.9	3
2	Trajectory Generation for Drones in Confined Spaces Using an Ellipsoid Model of the Body. , 2022, 6, 1022-1027.		2
3	Cooperative Distributed Estimation and Control of Multiple Autonomous Vehicles for Range-Based Underwater Target Localization and Pursuit. <i>IEEE Transactions on Control Systems Technology</i> , 2022, 30, 1433-1447.	5.2	13
4	A unified ship manoeuvring model with a nonlinear model predictive controller for path following in regular waves. <i>Ocean Engineering</i> , 2022, 243, 110165.	4.3	21
5	Observability analysis for a cooperative range-based navigation system that uses a rotating single beacon. <i>Ocean Engineering</i> , 2022, 248, 110697.	4.3	2
6	Bernstein Polynomial-Based Method for Solving Optimal Trajectory Generation Problems. <i>Sensors</i> , 2022, 22, 1869.	3.8	10
7	A Distributed Algorithm for Real-Time Multi-Drone Collision-Free Trajectory Replanning. <i>Sensors</i> , 2022, 22, 1855.	3.8	7
8	Chemical Spill Encircling Using a Quadrotor and Autonomous Surface Vehicles: A Distributed Cooperative Approach. <i>Sensors</i> , 2022, 22, 2178.	3.8	1
9	A Path-Following Controller for Marine Vehicles Using a Two-Scale Inner-Outer Loop Approach. <i>Sensors</i> , 2022, 22, 4293.	3.8	4
10	Optimal Multivehicle Motion Planning Using Bernstein Approximants. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 1453-1467.	5.7	14
11	A Distributed Luenberger Observer for Linear State Feedback Systems With Quantized and Rate-Limited Communications. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 3922-3937.	5.7	14
12	WiMUST: A cooperative marine robotic system for autonomous geotechnical surveys. <i>Journal of Field Robotics</i> , 2021, 38, 268-288.	6.0	25
13	Online Range-Based SLAM Using B-Spline Surfaces. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 1958-1965.	5.1	6
14	The Use of Bézier Curves for Optimal Motion Planning of Autonomous Vehicles. , 2021, , .		0
15	A spatio-temporal noise robust filtering method for separation of 2D incident and reflected irregular waves. <i>Ocean Engineering</i> , 2021, 237, 109544.	4.3	0
16	Efficient Bathymetric SLAM With Invalid Loop Closure Identification. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 2570-2580.	5.8	8
17	Cooperative Motion Control Using Hybrid Acoustic-Optical Communication Networks. <i>IFAC-PapersOnLine</i> , 2021, 54, 232-237.	0.9	4
18	Cooperative single-beacon multiple AUV navigation under stringent communication bandwidth constraints. <i>IFAC-PapersOnLine</i> , 2021, 54, 216-223.	0.9	2

#	ARTICLE	IF	CITATIONS
19	Control of Autonomous Underwater Vehicles. , 2021, , 1-6.		0
20	Hybrid acoustic-optical underwater communication networks for next-generation cooperative systems: the EUMR experience. , 2021, , .		2
21	Underwater Geophysical Navigation using a Particle Filter Approach to Multi-Sensor Fusion. , 2021, , .		2
22	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
23	A Comparison of Nonlinear Filters for Underwater Geomagnetic Navigation. , 2020, , .		8
24	Cooperative Multiple Formation Control of Autonomous Marine Vehicles. , 2020, , .		2
25	Guest Editorial: Marine Robotics and Control Systems. International Journal of Control, Automation and Systems, 2020, 18, 521-522.	2.7	0
26	Cooperative path following of constrained autonomous vehicles with model predictive control and event-triggered communications. International Journal of Robust and Nonlinear Control, 2020, 30, 2644-2670.	3.7	25
27	NetMarSys - A Tool for the Simulation and Visualization of Distributed Autonomous Marine Robotic Systems. , 2020, , .		1
28	IMPACT: a strategic partnership for sustainable development in marine systems and robotics. , 2020, , .		4
29	Range-based Navigation and Target Localization: Observability Analysis and Guidelines for Motion Planning. IFAC-PapersOnLine, 2020, 53, 14620-14627.	0.9	3
30	Real-time Trajectory Generation for Multiple Drones using Bézier Curves. IFAC-PapersOnLine, 2020, 53, 9276-9281.	0.9	9
31	Enhanced cooperative single-range underwater navigation based on optimal trajectories. IFAC-PapersOnLine, 2020, 53, 14668-14673.	0.9	0
32	A Navigation Algorithm for Under-the-Ice Robotic Operations. , 2020, , .		0
33	The Marine Robotics Research Infrastructure Network (EUMarine Robots): An Overview. , 2020, , .		4
34	B-spline Surfaces for Range-Based Environment Mapping. , 2020, , .		3
35	Optimized design of an autonomous underwater vehicle, for exploration in the Caribbean Sea. Ocean Engineering, 2019, 187, 106184.	4.3	21
36	Optimal Trajectory Planning for Autonomous Drone Cinematography. , 2019, , .		12

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37	Event-Triggered Communications for the Synchronization of Nonlinear Multi Agent Systems on Weight-Balanced Digraphs. , 2019, , .		4
38	Distributed state estimation for discrete-time linear time invariant systems: A survey. Annual Reviews in Control, 2019, 48, 36-56.	7.9	36
39	Circular formation control for cooperative target tracking with limited information. Journal of the Franklin Institute, 2019, 356, 1771-1788.	3.4	46
40	Consistent approximation of optimal control problems using Bernstein polynomials. , 2019, , .		9
41	Heuristics-based Adaptive Biased Random Walk Algorithm for Chemical Source Localization using AUVs. , 2019, , .		0
42	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
43	Cooperative range-based navigation using a beacon with circular motion installed on board the support platform. IFAC-PapersOnLine, 2019, 52, 390-395.	0.9	2
44	Hydro-acoustic communications and networking in contemporary underwater robotics: instruments and case studies. , 2019, , 263-300.		2
45	Detection of mooring line failures using Dynamic Hypothesis Testing. Ocean Engineering, 2018, 159, 496-503.	4.3	11
46	Formation Control of Surface Marine Vehicles for Underwater Target Tracking Using Range Information. , 2018, , .		3
47	Decoupled Sampling-Based Motion Planning for Multiple Autonomous Marine Vehicles. , 2018, , .		3
48	A coverage planner for AUVs using B-splines. , 2018, , .		4
49	Input-Constrained Path Following for Autonomous Marine Vehicles with a Global Region of Attraction. IFAC-PapersOnLine, 2018, 51, 348-353.	0.9	8
50	An Integrated System for Geophysical Navigation of Autonomous Underwater Vehicles.. IFAC-PapersOnLine, 2018, 51, 293-298.	0.9	6
51	Cooperative Path Following of Autonomous Vehicles with Model Predictive Control and Event Triggered Communications. IFAC-PapersOnLine, 2018, 51, 562-567.	0.9	11
52	Cooperative Motion Planning with Time, Energy and Active Navigation Constraints. , 2018, , .		3
53	A B-Spline Mapping Framework for Long-Term Autonomous Operations. , 2018, , .		4
54	Data-driven control in marine systems. Annual Reviews in Control, 2018, 46, 343-349.	7.9	7

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55	A Study of Modulation Formats for the Blue Ray Underwater Optical Modem. , 2018, , .		4
56	Challenges and future trends in marine robotics. Annual Reviews in Control, 2018, 46, 350-368.	7.9	130
57	Multiple autonomous surface vehicle motion planning for cooperative range-based underwater target localization. Annual Reviews in Control, 2018, 46, 326-342.	7.9	26
58	Range-based underwater target localization using an autonomous surface vehicle: Observability analysis. , 2018, , .		6
59	Advances on a null-space-based approach to range-only underwater steering and positioning. , 2018, , .		0
60	Multiple underwater target positioning with optimally placed acoustic surface sensor networks. International Journal of Distributed Sensor Networks, 2018, 14, 155014771877323.	2.2	9
61	AUV geophysical navigation using magnetic data " The MEDUSA GN system. , 2018, , .		9
62	Robust particle filter formulations with application to terrain-aided navigation. International Journal of Adaptive Control and Signal Processing, 2017, 31, 608-651.	4.1	47
63	Synchronization of Multiagent Systems Using Event-Triggered and Self-Triggered Broadcasts. IEEE Transactions on Automatic Control, 2017, 62, 4741-4746.	5.7	91
64	Environmental monitoring using autonomous vehicles: a survey of recent searching techniques. Current Opinion in Biotechnology, 2017, 45, 76-84.	6.6	119
65	Robust Dynamic Positioning of offshore vessels using mixed-integer synthesis modeling, design, and practice. Ocean Engineering, 2017, 129, 389-400.	4.3	46
66	Event-triggered output synchronization of heterogeneous multi-agent systems. International Journal of Robust and Nonlinear Control, 2017, 27, 1302-1338.	3.7	15
67	Range-based cooperative underwater target localization * *The work of the second and fourth authors was supported by Ministerio de Economía y Competitividad under project DPI2013-46665-C2-2-R.D. Moreno-Salinas is grateful to the "Ministerio de Educación, Cultura y Deporte" for support under "Programa Estatal de Promoción del Talento y su Empleabilidad en I+D+i, Subprograma Estatal de Movilidad, del Plan Estatal de Investigación Científica y Técnica y de Innovación 2013-2016" for the "Jose Castillejo 2015" IFAC-PapersOnLine, 2017, 50, 12366-12373.	0.9	0
68	Application of Data Driven Control to Dynamic Positioning. IFAC-PapersOnLine, 2017, 50, 12392-12397.	0.9	4
69	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
70	Robust methods of magnetic navigation of marine robotic vehicles * *Funding: This research was supported in part by the European project WIMUST (GA No. 645141) and the Portuguese FCT program [PEst-OE/EEI/LA0009/2011]. The authors gratefully acknowledge the sponsorship of the South Korean Agency for Defense Development under a collaborative research agreement between KAIST and IST.. IFAC-PapersOnLine, 2017, 50, 3470-3475.	0.9	1
71	CADDY project, year 3: The final validation trials. , 2017, , .		12
72	A design method for distributed luenberger observers. , 2017, , .		8

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73	Widely Scalable Mobile Underwater Sonar Technology: An Overview of the H2020 WiMUST Project. Marine Technology Society Journal, 2016, 50, 42-53.	0.4	25
74	Magnetic signal processing methods with application to geophysical navigation of marine robotic vehicles. , 2016, , .		7
75	An algorithm for formation-based chemical plume tracing using robotic marine vehicles. , 2016, , .		1
76	Towards 3-D distributed odor source localization: An extended graph-based formation control algorithm for plume tracking. , 2016, , .		16
77	Experimental validation of magnetic navigation of marine robotic vehicles**Funding: This research was supported in part by the European project WiMUST (GA No. 645141) and the Portuguese FCT funding program [PEst-OE/EEI/LA0009/2011]. The authors gratefully acknowledge the sponsorship of the South Korean Agency for Defense Development under a collaborative research agreement between KAIST and IST.. IFAC-PapersOnLine, 2016, 49, 273-278.	0.9	5
78	AUV terrain-aided navigation using a Doppler velocity logger. Annual Reviews in Control, 2016, 42, 166-176.	7.9	15
79	The European Project MORPH: Distributed UUV Systems for Multimodal, 3D Underwater Surveys. Marine Technology Society Journal, 2016, 50, 26-41.	0.4	18
80	Integrated Motion Planning, Control, and Estimation for Range-Based Marine Vehicle Positioning and Target Localization. IFAC-PapersOnLine, 2016, 49, 34-40.	0.9	17
81	Optimal Motion Planning for Range-Based Marine Vehicle Positioning in the Presence of Unknown Currents. IFAC-PapersOnLine, 2016, 49, 41-47.	0.9	5
82	Cooperative Surface/Underwater Navigation for AUV Path following missions. IFAC-PapersOnLine, 2016, 49, 355-360.	0.9	3
83	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
84	Overview and first year progress of the Widely scalable Mobile Underwater Sonar Technology H2020 project**This work has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 645141 (WiMUST project, http://www.wimust.eu).. IFAC-PapersOnLine, 2016, 49, 430-433.	0.9	4
85	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 Brazilian Navy during his sabbatical leave at the ISR/IST, Lisbon, Portugal.. IFAC-PapersOnLine, 2016, 49, 458-464.	0.9	9
86	Design of a distributed quantized luenberger filter for bounded noise. , 2016, , .		5
87	Human-robot interaction underwater: Communication and safety requirements. , 2016, , .		3
88	Development and validation of blue ray, an optical modem for the MEDUSA class AUVs. , 2016, , .		11
89	The MEDUSA class of autonomous marine vehicles and their role in EU projects. , 2016, , .		31
90	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

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91	The Widely scalable Mobile Underwater Sonar Technology (WiMUST) H2020 project: First year status. , 2016, , .		3
92	A Graph-Based Formation Algorithm for Odor Plume Tracing. Springer Tracts in Advanced Robotics, 2016, , 255-269.	0.4	8
93	Optimal Sensor Placement for Acoustic Underwater Target Positioning With Range-Only Measurements. IEEE Journal of Oceanic Engineering, 2016, 41, 620-643.	3.8	75
94	Energy-Optimal Motion Planning for Multiple Robotic Vehicles With Collision Avoidance. IEEE Transactions on Control Systems Technology, 2016, 24, 867-883.	5.2	63
95	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
96	CADDYâ€”Cognitive Autonomous Diving Buddy: Two Years of Underwater Human-Robot Interaction. Marine Technology Society Journal, 2016, 50, 54-66.	0.4	21
97	Formation Control in the scope of the MORPH project. Part II: Implementation and Resultsâˆ”... IFAC-PapersOnLine, 2015, 48, 250-255.	0.9	15
98	Underwater Single-Beacon Localization: Optimal Trajectory Planning and Minimum-Energy Estimation. IFAC-PapersOnLine, 2015, 48, 155-160.	0.9	16
99	Cooperative navigation and control: The EU MORPH project. , 2015, , .		2
100	CADDY Project, Year 1: Overview of Technological Developments and Cooperative Behavioursâˆ”... IFAC-PapersOnLine, 2015, 48, 125-130.	0.9	5
101	Formation Control in the scope of the MORPH project. Part I: Theoretical Foundations. IFAC-PapersOnLine, 2015, 48, 244-249.	0.9	20
102	A Null-Space-Based Behavioral Approach to Single Range Underwater Positioningâˆ”âˆ”This work was partially supported by the European Union' Horizon 2020 research and innovation programme under the project WiMUST: Widely scalable Mobile Underwater Sonar Technology, grant agreement NÂ°645141 (call H2020 ICT-23-2014 Robotics).. IFAC-PapersOnLine, 2015, 48, 55-60.	0.9	5
103	AUV Terrain-Aided Navigation using a Doppler Velocity Loggerâˆ”.... IFAC-PapersOnLine, 2015, 48, 137-142.	0.9	8
104	Cooperative control and navigation in the scope of the EC CADDY project. , 2015, , .		2
105	Selfâ€”triggered stateâ€”feedback control of linear plants under bounded disturbances. International Journal of Robust and Nonlinear Control, 2015, 25, 1230-1246.	3.7	14
106	Cooperative Path Following of Multiple Multirotors Over Time-Varying Networks. IEEE Transactions on Automation Science and Engineering, 2015, 12, 945-957.	5.2	54
107	Overview of the FP7 project “CADDY ” Cognitive Autonomous Diving Buddy”. , 2015, , .		13
108	Navigation, Guidance and Control of Underwater Vehicles within the Widely scalable Mobile Underwater Sonar Technology Project: an overviewâˆ”.... IFAC-PapersOnLine, 2015, 48, 189-193.	0.9	14

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109	The widely scalable Mobile Underwater Sonar Technology (WiMUST) project: An overview. , 2015, , .		19
110	State estimation of nonlinear systems using the Unscented Kalman Filter. , 2015, , .		3
111	The MORPH project: Actual results. , 2015, , .		3
112	Cooperative formation control in the scope of the EC MORPH project: Theory and experiments. , 2015, , .		18
113	A Decentralized Strategy for Multirobot Sampling/Patrolling: Theory and Experiments. IEEE Transactions on Control Systems Technology, 2015, 23, 313-322.	5.2	19
114	Time-Critical Cooperative Path Following of Multiple UAVs: Case Studies. , 2015, , 209-233.		6
115	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
116	EU project MORPH: Current Status After 3 Years of Cooperation Under and Above Water. IFAC-PapersOnLine, 2015, 48, 119-124.	0.9	7
117	A distributed formation-based odor source localization algorithm - design, implementation, and wind tunnel evaluation. , 2015, , .		25
118	Optimal design of observable multi-agent networks: A structural system approach. , 2014, , .		10
119	Adaptive leader-follower formation control of autonomous marine vehicles. , 2014, , .		3
120	Output synchronization of heterogeneous LTI plants with event-triggered communication. , 2014, , .		8
121	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
122	Trajectory Tracking Nonlinear Model Predictive Control for Autonomous Surface Craft. IEEE Transactions on Control Systems Technology, 2014, 22, 2160-2175.	5.2	75
123	Determination of Inner and Outer Bounds of Reachable Sets Through Subpavings. Mathematics in Computer Science, 2014, 8, 425-442.	0.4	0
124	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
125	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
126	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

#	ARTICLE	IF	CITATIONS
127	Design and Implementation of a Range-Based Formation Controller for Marine Robots. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 55-67.	0.6	4
128	Time-Critical Cooperative Path Following of Multiple Unmanned Aerial Vehicles over Time-Varying Networks. <i>Journal of Guidance, Control, and Dynamics</i> , 2013, 36, 499-516.	2.8	80
129	The MORPH concept and its application in marine research. , 2013, , .		13
130	Joint ASV/AUV range-based formation control: Theory and experimental results. , 2013, , .		33
131	An Observability Metric for Underwater Vehicle Localization Using Range Measurements. <i>Sensors</i> , 2013, 13, 16191-16215.	3.8	42
132	Optimal Sensor Placement for Multiple Target Positioning with Range-Only Measurements in Two-Dimensional Scenarios. <i>Sensors</i> , 2013, 13, 10674-10710.	3.8	73
133	Sensor Networks for Optimal Target Localization with Bearings-Only Measurements in Constrained Three-Dimensional Scenarios. <i>Sensors</i> , 2013, 13, 10386-10417.	3.8	69
134	Cooperative AUV motion planning using terrain information. , 2013, , .		9
135	A novel methodology for robust dynamic positioning of marine vessels: Theory and experiments. , 2013, , .		21
136	A novel methodology for adaptive Wave Filtering of marine vessels: Theory and experiments?. , 2013, , .		16
137	A Packet Loss Compliant Logic-Based Communication Algorithm for Cooperative Path-Following Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 262-267.	0.4	4
138	Optimal Sensor Placement for Acoustic Range-Based Underwater Robot Positioning. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 215-220.	0.4	3
139	Four-Quadrant Propeller Modeling: A Low-Order Harmonic Approximation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 161-166.	0.4	0
140	Adaptive Wave Filtering for Dynamic Positioning of Marine Vessels using Maximum Likelihood Identification: Theory and Experiments. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 203-208.	0.4	11
141	Magnetic Navigation and Tracking of Underwater Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 239-244.	0.4	12
142	Observability analysis of 2D single beacon navigation in the presence of constant currents for two classes of maneuvers. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 227-232.	0.4	8
143	Underwater Target Positioning with a Single Acoustic Sensor. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 233-238.	0.4	11
144	Trajectory tracking nonlinear model predictive control for autonomous surface craft. , 2013, , .		6

#	ARTICLE	IF	CITATIONS
145	Multiple Model Adaptive Estimation for open loop unstable plants. , 2013, , .		4
146	A comprehensive evaluation of three robust adaptive control methodologies. , 2012, , .		0
147	Observer based self-triggered control of linear plants with unknown disturbances. , 2012, , .		11
148	Multiple model adaptive wave filtering for dynamic positioning of marine vessels. , 2012, , .		36
149	A Lyapunov-based approach for Time-Coordinated 3D Path-Following of multiple quadrotors. , 2012, , .		20
150	Constrained motion planning for multiple vehicles on SE(3). , 2012, , .		8
151	Observer based self-triggered control of an acyclic interconnection of linear plants. , 2012, , .		1
152	Surface sensor networks for Underwater Vehicle positioning with bearings-only measurements. , 2012, , .		5
153	A new approach to multi-robot harbour patrolling: Theory and experiments. , 2012, , .		13
154	Complementary Terrain/Single Beacon-Based AUV Navigation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 76-83.	0.4	3
155	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
156	Evaluation of Three Dynamic Ship Positioning Controllers: from Calm to Extreme Conditions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 158-163.	0.4	5
157	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
158	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
159	The European R&D-Project MORPH: Marine robotic systems of self-organizing, logically linked physical nodes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 226-231.	0.4	5
160	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
161	Robust Dynamic Positioning of Offshore Vessels using Mixed- $\mathcal{H}_2/\mathcal{H}_\infty$ Synthesis Part I: A Control System Design Methodology. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 177-182.	0.4	12
162	AUV Terrain-Aided Doppler Navigation using Complementary Filtering. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 313-318.	0.4	8

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163	Cooperative Motion Planning for Multiple Autonomous Marine Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 244-249.	0.4	12
164	Multiple Model Adaptive Dynamic Positioning. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 55-60.	0.4	5
165	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
166	Cooperative control of multiple surface vessels with discrete-time periodic communications. International Journal of Robust and Nonlinear Control, 2012, 22, 398-419.	3.7	65
167	Continuous-time consensus with discrete-time communications. Systems and Control Letters, 2012, 61, 788-796.	2.3	18
168	Robust Dynamic Positioning of Offshore Vessels using Mixed- H_2/H_∞ Synthesis Part II: Simulation and Experimental Results. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 183-188.	0.4	9
169	The CO \sup 3AUVs (Cooperative Cognitive Control for Autonomous Underwater) Tj ETQq1 1 0.784314 rgBT / Over 20		
170	Geometric 3D Path-Following Control for a Fixed-Wing UAV on SO(3). , 2011, , .		36
171	Observability metric for the relative localization of AUVs based on range and depth measurements: Theory and experiments. , 2011, , .		1
172	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
173	Stability Analysis of Robust Multiple Model Adaptive Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 350-355.	0.4	23
174	Self-triggered observer based control of linear plants*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10074-10079.	0.4	8
175	Observability metric for the relative localization of AUVs based on range and depth measurements: Theory and experiments. , 2011, , .		27
176	Optimal sensor placement for underwater positioning with uncertainty in the target location. , 2011, , .		22
177	Self-triggered output feedback control of linear plants. , 2011, , .		18
178	Portugal, science and resources in the last frontier. , 2011, , .		0
179	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
180	Optimal Sensor Placement for Underwater Target Positioning with Noisy Range Measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 85-90.	0.4	5

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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	Nonlinear adaptive control of an underwater towed vehicle. Ocean Engineering, 2010, 37, 1193-1220.	4.3	31
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