Antonio Pedro Aguiar

List of Publications by Year in Descending Order

207 papers	3,166 citations	26 h-index	49 g-index
230 ext. papers	3,938 ext. citations	3.3 avg, IF	5.73 L-index

#	Paper	IF	Citations
207	A Secure Federated Deep Learning-Based Approach for Heating Load Demand Forecasting in Building Environment. *IEEE Access*, **2022**, 10, 5037-5050	3.5	1
206	Three Dimensional Moving Path Following Control for Robotic Vehicles With Minimum Positive Forward Speed **2022**, 6, 79-84		
205	An overview of structural systems theory. *Automatica*, **2022**, 140, 110229	5.7	0
204	A Path-Following Controller for Marine Vehicles Using a Two-Scale Inner-Outer Loop Approach. *Sensors*, **2022**, 22, 4293	3.8	0
203	Robust Path-Following Control of Underactuated Marine Vehicles Using Gradient-Descent Fuzzy Estimation. *Lecture Notes in Electrical Engineering*, **2022**, 37-47	0.2	
202	Cooperative Path Following with Collision Avoidance Guarantees Using Control Lyapunov and Barrier Functions. *Lecture Notes in Electrical Engineering*, **2022**, 181-193	0.2	
201	On the Use of a Maximum Correntropy Criterion in Kalman Filtering Based Strategies for Robot Localization and Mapping. *Lecture Notes in Electrical Engineering*, **2021**, 548-558	0.2	
200	Direct Power Control of a Doubly Fed Induction Generator Using a Lyapunov Based State Space Approach. *Lecture Notes in Electrical Engineering*, **2021**, 628-637	0.2	
199	Accelerated Generalized Correntropy Interior Point Method in Power System State Estimation. *Lecture Notes in Electrical Engineering*, **2021**, 658-667	0.2	0
198	Image Processing Based Approach for False Data Injection Attacks Detection in Power Systems. *IEEE Access*, **2021**, 1-1	3.5	2
197	Distributed LQ Control of a Water Delivery Canal Based on a Selfish Game. *Lecture Notes in Electrical Engineering*, **2021**, 466-476	0.2	0
196	Online Range-Based SLAM Using B-Spline Surfaces. *IEEE Robotics and Automation Letters*, **2021**, 6, 1958-1965	4.6	3
195	Structurally quotient fixed modes. *Systems and Control Letters*, **2021**, 151, 104914	2.4	
194	Control Barrier Function-Based Quadratic Programs Introduce Undesirable Asymptotically Stable Equilibria **2021**, 5, 731-736		10
193	A Distributed Luenberger Observer for Linear State Feedback Systems With Quantized and Rate-Limited Communications. *IEEE Transactions on Automatic Control*, **2021**, 66, 3922-3937	5.9	0
192	. *IEEE Journal of Oceanic Engineering*, **2021**, 1-14	3.3	1
191	An Unmanned Aircraft System for Maritime Operations: The Automatic Detection Subsystem. *Marine Technology Society Journal*, **2021**, 55, 38-49	0.5	2

190	On Incremental Structure from Motion Using Lines. *IEEE Transactions on Robotics*, **2021**, 1-16	6.5	
189	Deep Learning-Assisted Short-Term Load Forecasting for Sustainable Management of Energy in Microgrid. *Inventions*, **2021**, 6, 15	2.9	12
188	Distributed Inverse Optimal Control for Discrete-Time Nonlinear Multi-Agent Systems **2021**, 5, 2096-2101		2
187	Turn-to-Turn Short Circuit Fault Localization in Transformer Winding via Image Processing and Deep Learning Method. *IEEE Transactions on Industrial Informatics*, **2021**, 1-1	11.9	5
186	Multi-agent detection and labelling of activity patterns. *Signal, Image and Video Processing*, **2020**, 14, 1207-1215	1.6	0
185	Constrained Hopping Traversability Analysis on Non-Uniform Polygonal Chains. *IEEE Access*, **2020**, 8, 36691-36701	3.5	1
184	Finite-dimensional control of linear discrete-time fractional-order systems. *Automatica*, **2020**, 115, 108512	5.7	5
183	A DFIG-based Wind Turbine Operation under Balanced and Unbalanced Grid Voltage Conditions. *IFAC-PapersOnLine*, **2020**, 53, 12835-12840	0.7	2
182	An Optimization-Based Cooperative Path-Following Framework for Multiple Robotic Vehicles. *IEEE Transactions on Control of Network Systems*, **2020**, 7, 1002-1014	4	3
181	Active Depth Estimation: Stability Analysis and its Applications **2020**,		1
180	Distributed state estimation for discrete-time linear time invariant systems: A survey. *Annual Reviews in Control*, **2019**, 48, 36-56	10.3	12
179	Selective strong structural minimum-cost resilient co-design for regular descriptor linear systems. *Automatica*, **2019**, 102, 80-85	5.7	9
178	Corrigendum to Selective strong structural minimum-cost resilient co-design for regular descriptor linear systems[Automatica 102 (2019) 80–85]. *Automatica*, **2019**, 107, 612	5.7	
177	Robust Moving Path Following Control for Robotic Vehicles: Theory and Experiments. *IEEE Robotics and Automation Letters*, **2019**, 4, 3192-3199	4.2	14
176	A Framework for Depth Estimation and Relative Localization of Ground Robots using Computer Vision **2019**,		3
175	Robust Cooperative Moving Path Following Control for Marine Robotic Vehicles. *Frontiers in Robotics and AI*, **2019**, 6, 121	2.8	1
174	Modelling, Control and Performance Evaluation of an AC/DC Microgrid **2019**,		1
173	Cooperative Path Following of Robotic Vehicles Using an Event-Based Control and Communication Strategy. *IEEE Robotics and Automation Letters*, **2018**, 3, 1941-1948	4.2	25

172	Moving Path Following Control of Constrained Underactuated Vehicles: A Nonlinear Model Predictive Control Approach **2018**,		8
171	Low-Level Active Visual Navigation: Increasing Robustness of Vision-Based Localization Using Potential Fields. *IEEE Robotics and Automation Letters*, **2018**, 3, 2079-2086	4.2	11
170	Structurally Observable Distributed Networks of Agents Under Cost and Robustness Constraints. *IEEE Transactions on Signal and Information Processing Over Networks*, **2018**, 4, 236-247	2.8	9
169	. *IEEE Transactions on Aerospace and Electronic Systems*, **2018**, 54, 834-847	3.7	26
168	Feature Based Potential Field for Low-Level Active Visual Navigation. *Advances in Intelligent Systems and Computing*, **2018**, 791-800	0.4	1
167	Coordinated Multi-UAV Exploration Strategy for Large Areas with Communication Constrains. *Advances in Intelligent Systems and Computing*, **2018**, 149-160	0.4	
166	A Nonlinear Model Predictive Control for an AUV to Track and Estimate a Moving Target Using Range Measurements. *Advances in Intelligent Systems and Computing*, **2018**, 161-170	0.4	1
165	A Model Predictive Cloud-Based Control Scheme for Trajectory-Tracking: Effects of Round-Trip Time Over-Estimates **2018**,		1
164	A coverage planner for AUVs using B-splines **2018**,		1
163	A B-Spline Mapping Framework for Long-Term Autonomous Operations **2018**,		2
162	Cooperative Moving Path Following Using Event Based Control and Communication **2018**,		3
161	An unmanned aircraft system for maritime operations: The sense and avoid subsystem with software-in-the-loop evaluation. *International Journal of Advanced Robotic Systems*, **2018**, 15, 1729881418786331	1.4	1
160	Composability and controllability of structural linear time-invariant systems: Distributed verification. *Automatica*, **2017**, 78, 123-134	5.7	30
159	An Input-to-State-Stability Approach to Economic Optimization in Model Predictive Control. *IEEE Transactions on Automatic Control*, **2017**, 62, 6081-6093	5.9	17
158	The robust minimal controllability problem. *Automatica*, **2017**, 82, 261-268	5.7	25
157	Constrained Optimal Motion Planning for Autonomous Vehicles Using PRONTO. *Lecture Notes in Control and Information Sciences*, **2017**, 207-226	0.5	4
156	Three dimensional moving path following for fixed-wing unmanned aerial vehicles **2017**,		5
155	Self-triggered cooperative path following control of fixed wing Unmanned Aerial Vehicles **2017**,		6

154	A fault detection and isolation scheme for formation control of fixed-wing UAVs **2017**,		2
153	VirtualArena: An object-oriented MATLAB toolkit for control system design and simulation **2017**,		8
152	A feedback motion strategy applied to a UAV to work as an autonomous relay node for maritime operations **2017**,		7
151	Icing detection and identification for unmanned aerial vehicles using adaptive nested multiple models. *International Journal of Adaptive Control and Signal Processing*, **2017**, 31, 1584-1607	2.8	7
150	Benchmarking IoT middleware platforms **2017**,		9
149	A distributed Model Predictive Control scheme for coordinated output regulation * *This work was partially supported by FCT R&D Unit SYSTEC - POCI-01-0145-FEDER-006933/SYSTEC funded by ERDF□COMPETE2020□FCT/MEC□PT2020 and project STRIDE - NORTE-01-0145-FEDER-000033, funded by ERDF□NORTE 2020. *IFAC PapersOnLine*, **2017**, 50, 8692-8697	0.7	3
148	A planar path-following model predictive controller for fixed-wing Unmanned Aerial Vehicles **2017**,		4
147	**2017**,		2
146	**2017**,		1
145	A design method for distributed luenberger observers **2017**,		5
144	A Sampled-Data Model Predictive Framework for Cooperative Path Following of Multiple Robotic Vehicles. *Lecture Notes in Control and Information Sciences*, **2017**, 473-494	0.5	3
143	A Framework for Structural Input/Output and Control Configuration Selection in Large-Scale Systems. *IEEE Transactions on Automatic Control*, **2016**, 61, 303-318	5.9	121
142	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	4.8	65
141	A convoy protection strategy using the moving path following method **2016**,		5
140	. *IEEE Control Systems*, **2016**, 36, 59-82	2.9	25
139	Moving Path Following for Unmanned Aerial Vehicles With Applications to Single and Multiple Target Tracking Problems. *IEEE Transactions on Robotics*, **2016**, 32, 1062-1078	6.5	53
138	A Predictive Path-Following Approach for Fixed-Wing Unmanned Aerial Vehicles in Presence of Wind Disturbances. *Advances in Intelligent Systems and Computing*, **2016**, 623-634	0.4	13
137	A Graph-Based Formation Algorithm for Odor Plume Tracing. *Springer Tracts in Advanced Robotics*, **2016**, 255-269	0.5	8

136	Optimal UAV Rendezvous on a UGV **2016**,		6
135	Adaptive Sampling Using an Unsupervised Learning of GMMs Applied to a Fleet of AUVs with CTD Measurements. *Advances in Intelligent Systems and Computing*, **2016**, 321-332	0.4	1
134	Minimum cost input/output design for large-scale linear structural systems. *Automatica*, **2016**, 68, 384-391	5.7	41
133	On convergence and performance certification of a continuous-time economic model predictive control scheme with time-varying performance index. *Automatica*, **2016**, 68, 305-313	5.7	24
132	Second-Order-Optimal Minimum-Energy Filters on Lie Groups. *IEEE Transactions on Automatic Control*, **2016**, 61, 2906-2919	5.9	12
131	. *IEEE Transactions on Control Systems Technology*, **2016**, 24, 867-883	4.8	38
130	On the design of discrete-time Economic Model Predictive Controllers **2016**,		4
129	An algorithm for formation-based chemical plume tracing using robotic marine vehicles **2016**,		1
128	Towards 3-D distributed odor source localization: An extended graph-based formation control algorithm for plume tracking **2016**,		12
127	Design of a distributed quantized luenberger filter for bounded noise **2016**,		4
126	Time-Critical Cooperative Path Following of Multiple UAVs: Case Studies **2015**, 209-233		6
125	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	10.3	14
124	Icing detection and identification for unmanned aerial vehicles: Multiple model adaptive estimation **2015**,		17
123	A distributed formation-based odor source localization algorithm - design, implementation, and wind tunnel evaluation **2015**,		13
122	Comparison between the mineral profile and nitrate content of microgreens and mature lettuces. *Journal of Food Composition and Analysis*, **2015**, 37, 38-43	4.1	79
121	On the complexity of the constrained input selection problem for structural linear systems. *Automatica*, **2015**, 62, 193-199	5.7	38
120	A virtual target approach for trajectory optimization of a general class of constrained vehicles **2015** ,		3
119	Analysis and design of electric power grids with p-robustness guarantees using a structural hybrid system approach **2015**,		4

118	A consensus algorithm for networks with process noise and quantization error **2015**,		3
117	An energy efficient trajectory tracking controller for car-like vehicles using Model Predictive Control **2015**,		4
116	**2015**,		10
115	Cooperative Path Following of Multiple Multirotors Over Time-Varying Networks. *IEEE Transactions on Automation Science and Engineering*, **2015**, 12, 945-957	4.9	37
114	A Model predictive control scheme with ultimate bound for economic optimization **2015**,		7
113	**2015**,		4
112	Cooperative path-following for multirotor UAVs with a suspended payload **2015**,		13
111	An Optimization-Based Framework for Impulsive Control Systems. *Lecture Notes in Control and Information Sciences*, **2015**, 277-300	0.5	3
110	Trajectory optimization for constrained UAVs: A Virtual Target Vehicle approach **2015**,		18
109	A Model Predictive Control-Based Architecture for Cooperative Path-Following of Multiple Unmanned Aerial Vehicles. *Lecture Notes in Control and Information Sciences*, **2015**, 141-160	0.5	6
108	A Decentralized Strategy for Multirobot Sampling/Patrolling: Theory and Experiments. *IEEE Transactions on Control Systems Technology*, **2015**, 23, 313-322	4.8	13
107	Unsupervised Learning of Gaussian Mixture Models in the Presence of Dynamic Environments. *Lecture Notes in Electrical Engineering*, **2015**, 387-396	0.2	1
106	Optimization Based Control for Target Estimation and Tracking via Highly Observable Trajectories. *Lecture Notes in Electrical Engineering*, **2015**, 495-504	0.2	6
105	On the Linearization Up to Multi-Output Injection for a Class of Systems With Implicitly Defined Outputs. *IEEE Transactions on Automatic Control*, **2014**, 59, 1310-1315	5.9	
104	Underwater localization and mapping: observability analysis and experimental results. *Industrial Robot*, **2014**, 41, 213-224	1.4	4
103	Automatic bottom-following for underwater robotic vehicles. *Automatica*, **2014**, 50, 2155-2162	5.7	18
102	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		6
101	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		2

100	Towards efficient mobile M2M communications: survey and open challenges. *Sensors*, **2014**, 14, 19582-6008	3.8	65
99	FVMS Software-in-the-Loop Flight Simulation Experiments: Guidance, Navigation and Control **2014**,		3
98	**2014**,		23
97	An economic model predictive control scheme with terminal penalty for continuous-time systems **2014**,		6
96	Minimum number of information gatherers to ensure full observability of a dynamic social network: A structural systems approach **2014**,		11
95	**2014**,		7
94	Adaptive leader-follower formation control of autonomous marine vehicles **2014**,		2
93	Design and Implementation of a Range-Based Formation Controller for Marine Robots. *Advances in Intelligent Systems and Computing*, **2014**, 55-67	0.4	2
92	Optimal Control on Lie Groups: The Projection Operator Approach. *IEEE Transactions on Automatic Control*, **2013**, 58, 2230-2245	5.9	36
91	Time-Critical Cooperative Path Following of Multiple Unmanned Aerial Vehicles over Time-Varying Networks. *Journal of Guidance, Control, and Dynamics*, **2013**, 36, 499-516	2.1	66
90	Joint ASV/AUV range-based formation control: Theory and experimental results **2013**,		21
89	An Observability Metric for Underwater Vehicle Localization Using Range Measurements. *Sensors*, **2013**, 13, 16191-16215	3.8	28
88	Dynamic Load Allocation for Multi-Homing via Coded Packets **2013**,		4
87	A Model Predictive Control scheme with additional performance index for transient behavior **2013**,		7
86	Cooperative AUV motion planning using terrain information **2013**,		8
85	A framework for actuator placement in large scale power systems: Minimal strong structural controllability **2013**,		8
84	A structured systems approach for optimal actuator-sensor placement in linear time-invariant systems **2013**,		35
83	Second-order-optimal filters on Lie groups **2013**,		8

82	**2013**,	7
81	A model checking framework for linear time invariant switching systems using structural systems analysis **2013**,	7
80	A Packet Loss Compliant Logic-Based Communication Algorithm for Cooperative Path-Following Control. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 262-267	4
79	Covariant differentiation of a map in the context of geometric optimal control. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 499-505	
78	Four-Quadrant Propeller Modeling: A Low-Order Harmonic Approximation. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 161-166	
77	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	6
76	Designing Decentralized Control Systems without Structural Fixed Modes: A Multilayer Approach*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 81-88	2
75	Minimum Robust Sensor Placement for Large Scale Linear Time-Invariant Systems: A Structured Systems Approach*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 417-424	9
74	AUV range-only localization and mapping: Observer design and experimental results **2013**,	7
73	Multiple-model adaptive state estimation of the HIV-1 infection using a moving horizon approach **2013**,	1
72	Optimal cost actuator/sensor placement for large scale linear time-invariant systems: A structured systems approach **2013**,	3
71	Moving path following for autonomous robotic vehicles **2013**,	7
70	Multiple Model Adaptive Estimation for open loop unstable plants **2013**,	3
69	Trajectory-tracking and path-following controllers for constrained underactuated vehicles using Model Predictive Control **2013**,	26
68	Target tracking of autonomous robotic vehicles using range-only measurements: a switched logic-based control strategy. *International Journal of Robust and Nonlinear Control*, **2012**, 22, 1983-1998 3.6	14
67	Multiple model adaptive wave filtering for dynamic positioning of marine vessels **2012**,	26
66	A Lyapunov-based approach for Time-Coordinated 3D Path-Following of multiple quadrotors **2012**,	12
65	Constrained motion planning for multiple vehicles on SE(3) **2012**,	7

64	A new approach to multi-robot harbour patrolling: Theory and experiments **2012**,		12
63	An Underwater Acoustic Localisation System for Assisted Human Diving Operations. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2012**, 45, 206-211		6
62	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		11
61	Observability Analysis for AUV Range-only Localization and Mapping Measures of Unobservability and Experimental Results. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2012**, 45, 325-330		4
60	Cooperative Motion Planning for Multiple Autonomous Marine Vehicles. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2012**, 45, 244-249		8
59	Obstacle detection from overhead imagery using self-supervised learning for Autonomous Surface Vehicles **2011**,		1
58	A Switched Based Control Strategy for Target Tracking of Autonomous Robotic Vehicles using Range-only Measurements. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 12819-12824		1
57	Optimal Control on Lie Groups: Implementation Details of the Projection Operator Approach. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 14567-14572		1
56	An Exponential Observer for Systems on SE(3) with Implicit Outputs. *Springer Proceedings in Mathematics*, **2011**, 611-633		3
55	**2011**,		3
54	Vision-based control for rigid body stabilization. *Automatica*, **2011**, 47, 1020-1027	5.7	9
53	Observability metric for the relative localization of AUVs based on range and depth measurements: Theory and experiments **2011**,		19
52	Lie group projection operator approach: Optimal control on T SO(3) **2011**,		11
51	Seabed tracking of an autonomous underwater vehicle with nonlinear output regulation **2011**,		5
50	A Minimum Energy solution to Monocular Simultaneous Localization and Mapping **2011**,		1
49	Optimal control on non-compact lie groups: A projection operator approach **2010**,		6
48	Exploration of Kinematic Optimal Control on the Lie Group SO(3)*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 1302-1307		5
47	Multiple Marine Vehicle Deconflicted Path Planning with Currents and Communication Constraints. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 491-496		4

46	State estimation for systems on SE(3) with implicit outputs: An application to visual servoing*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 921-926		1
45	Moving Horizon Estimation with Decimated Observations *. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 296-301		1
44	Cooperative Motion Control of Multiple Autonomous Marine Vehicles: Collision Avoidance in Dynamic Environments. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 395-400		6
43	SLAM for an AUV using vision and an acoustic beacon. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 503-508		4
42	A Multiple Model Adaptive Wave Filter for Dynamic Ship Positioning. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 120-125		2
41	Nonlinear adaptive control of an underwater towed vehicle. *Ocean Engineering*, **2010**, 37, 1193-1220	3.9	24
40	On Coordinated Road Search using Time-Coordinated Path Following of Multiple UAVs **2010**,		2
39	A performance based model-set design strategy for Multiple Model Adaptive Estimation **2009**,		6
38	Further results on plant parameter identification using continuous-time multiple-model adaptive estimators **2009**,		4
37	Path planning for multiple marine vehicles **2009**,		5
36	A general framework for multiple vehicle time-coordinated path following control **2009**,		18
35	Multiple Model Adaptive Estimation and model identification usign a Minimum Energy criterion **2009**,		18
34	Robust filtering for deterministic systems with implicit outputs. *Systems and Control Letters*, **2009**, 58, 263-270	2.4	12
33	Coordinated Path-Following in the Presence of Communication Losses and Time Delays. *SIAM Journal on Control and Optimization*, **2009**, 48, 234-265	1.9	128
32	Cooperative Autonomous Marine Vehicle motion control in the scope of the EU GREX Project: Theory and Practice **2009**,		22
31	Online Mission Planning for Cooperative Target Tracking of Marine Vehicles. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 185-189		3
30	Single Beacon Acoustic Navigation for an AUV in the presence of unknown ocean currents. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 298-303		5
29	Marine Vehicle Path Following Using Inner-Outer Loop Control. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 38-43		12

28	Cooperative Control of Multiple Marine Vehicles Theoretical Challenges and Practical Issues. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 412-417		16
27	Temporally and Spatially Deconflicted Path Planning for Multiple Autonomous Marine Vehicles. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 376-381		8
26	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		5
25	A Cooperative Personal Agenda in a Collaborative Team Environment. *Lecture Notes in Computer Science*, **2009**, 193-196	0.9	
24	Time-Coordinated Path Following of Multiple UAVs over Time-Varying Networks using L1 Adaptation **2008**,		9
23	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		3
22	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		15
21	Performance limitations in reference tracking and path following for nonlinear systems. *Automatica* , **2008**, 44, 598-610	5.7	117
20	Zero Dynamics and Tracking Performance Limits in Nonlinear Feedback Systems **2008**, 149-159		2
19	. *IEEE Transactions on Automatic Control*, **2007**, 52, 1362-1379	5.9	555
18	Multiple-model adaptive estimators: Open problems and future directions **2007**,		1
17	Switched seesaw control for the stabilization of underactuated vehicles. *Automatica*, **2007**, 43, 1997-2008	3.7	32
16	Synchronization in multi-agent systems with switching topologies and non-homogeneous communication delays **2007**,		21
15	Dynamic positioning and way-point tracking of underactuated AUVs in the presence of ocean currents. *International Journal of Control*, **2007**, 80, 1092-1108	1.5	130
14	**2007**,		4
13	Coordinated path-following control for nonlinear systems with logic-based communication **2007**,		32
12	NONLINEAR MOTION CONTROL OF MULTIPLE AUTONOMOUS UNDERWATER VEHICLES. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2007**, 40, 75-80		6
11	Coordinated path-following control of multiple underactuated autonomous vehicles in the presence of communication failures **2006**,		50

10	. *IEEE Transactions on Automatic Control*, **2006**, 51, 226-241	5.9	43
9	Path-following for nonminimum phase systems removes performance limitations. *IEEE Transactions on Automatic Control*, **2005**, 50, 234-239	5.9	124
8	LIMITS OF PERFORMANCE IN REFERENCE-TRACKING AND PATH-FOLLOWING FOR NONLINEAR SYSTEMS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2005**, 38, 264-269		5
7	State estimation for continuous-time systems with perspective outputs from discrete noisy time-delayed measurements **2004**,		3
6	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		3
5	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		8
4	Cooperative control of multiple autonomous marine vehicles: theoretical foundations and practical issues	255-282	7
3	State Estimation for Systems with Implicit Outputs for the Integration of Vision and Inertial Sensors		2
2	Stability of switched seesaw systems with application to the stabilization of underactuated vehicles		2
1	Regulation of a nonholonomic dynamic wheeled mobile robot with parametric modeling uncertainty using Lyapunov functions		15