

Antonio Pedro Aguiar

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 1362-1379	5.9	555
206	Dynamic positioning and way-point tracking of underactuated AUVs in the presence of ocean currents. <i>International Journal of Control</i> , 2007 , 80, 1092-1108	1.5	130
205	Coordinated Path-Following in the Presence of Communication Losses and Time Delays. <i>SIAM Journal on Control and Optimization</i> , 2009 , 48, 234-265	1.9	128
204	Path-following for nonminimum phase systems removes performance limitations. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 234-239	5.9	124
203	A Framework for Structural Input/Output and Control Configuration Selection in Large-Scale Systems. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 303-318	5.9	121
202	Performance limitations in reference tracking and path following for nonlinear systems. <i>Automatica</i> , 2008 , 44, 598-610	5.7	117
201	Comparison between the mineral profile and nitrate content of microgreens and mature lettuces. <i>Journal of Food Composition and Analysis</i> , 2015 , 37, 38-43	4.1	79
200	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	2.1	66
199	Range-Based Underwater Vehicle Localization in the Presence of Unknown Ocean Currents: Theory and Experiments. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 122-139	4.8	65
198	Towards efficient mobile M2M communications: survey and open challenges. <i>Sensors</i> , 2014 , 14, 19582-6088	3.8	65
197	Moving Path Following for Unmanned Aerial Vehicles With Applications to Single and Multiple Target Tracking Problems. <i>IEEE Transactions on Robotics</i> , 2016 , 32, 1062-1078	6.5	53
196	Coordinated path-following control of multiple underactuated autonomous vehicles in the presence of communication failures 2006 ,		50
195	. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 226-241	5.9	43
194	Minimum cost input/output design for large-scale linear structural systems. <i>Automatica</i> , 2016 , 68, 384-391	3.7	41
193	. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 867-883	4.8	38
192	On the complexity of the constrained input selection problem for structural linear systems. <i>Automatica</i> , 2015 , 62, 193-199	5.7	38
191	Cooperative Path Following of Multiple Multirotors Over Time-Varying Networks. <i>IEEE Transactions on Automation Science and Engineering</i> , 2015 , 12, 945-957	4.9	37

190	Optimal Control on Lie Groups: The Projection Operator Approach. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2230-2245	5.9	36
189	A structured systems approach for optimal actuator-sensor placement in linear time-invariant systems 2013 ,		35
188	Switched seesaw control for the stabilization of underactuated vehicles. <i>Automatica</i> , 2007 , 43, 1997-2008	3.7	32
187	Coordinated path-following control for nonlinear systems with logic-based communication 2007 ,		32
186	Composability and controllability of structural linear time-invariant systems: Distributed verification. <i>Automatica</i> , 2017 , 78, 123-134	5.7	30
185	An Observability Metric for Underwater Vehicle Localization Using Range Measurements. <i>Sensors</i> , 2013 , 13, 16191-16215	3.8	28
184	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018 , 54, 834-847	3.7	26
183	Multiple model adaptive wave filtering for dynamic positioning of marine vessels 2012 ,		26
182	Trajectory-tracking and path-following controllers for constrained underactuated vehicles using Model Predictive Control 2013 ,		26
181	The robust minimal controllability problem. <i>Automatica</i> , 2017 , 82, 261-268	5.7	25
180	Cooperative Path Following of Robotic Vehicles Using an Event-Based Control and Communication Strategy. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 1941-1948	4.2	25
179	. <i>IEEE Control Systems</i> , 2016 , 36, 59-82	2.9	25
178	On convergence and performance certification of a continuous-time economic model predictive control scheme with time-varying performance index. <i>Automatica</i> , 2016 , 68, 305-313	5.7	24
177	Nonlinear adaptive control of an underwater towed vehicle. <i>Ocean Engineering</i> , 2010 , 37, 1193-1220	3.9	24
176	2014 ,		23
175	Cooperative Autonomous Marine Vehicle motion control in the scope of the EU GREX Project: Theory and Practice 2009 ,		22
174	Joint ASV/AUV range-based formation control: Theory and experimental results 2013 ,		21
173	Synchronization in multi-agent systems with switching topologies and non-homogeneous communication delays 2007 ,		21

172	Observability metric for the relative localization of AUVs based on range and depth measurements: Theory and experiments 2011 ,		19
171	Automatic bottom-following for underwater robotic vehicles. <i>Automatica</i> , 2014 , 50, 2155-2162	5.7	18
170	Trajectory optimization for constrained UAVs: A Virtual Target Vehicle approach 2015 ,		18
169	A general framework for multiple vehicle time-coordinated path following control 2009 ,		18
168	Multiple Model Adaptive Estimation and model identification using a Minimum Energy criterion 2009 ,		18
167	An Input-to-State-Stability Approach to Economic Optimization in Model Predictive Control. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 6081-6093	5.9	17
166	Icing detection and identification for unmanned aerial vehicles: Multiple model adaptive estimation 2015 ,		17
165	Cooperative Control of Multiple Marine Vehicles Theoretical Challenges and Practical Issues. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 412-417		16
164	Cooperative Path-Following of Underactuated Autonomous Marine Vehicles with Logic-based Communication. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 107-112		15
163	Regulation of a nonholonomic dynamic wheeled mobile robot with parametric modeling uncertainty using Lyapunov functions		15
162	Observability analysis of 3D AUV trimming trajectories in the presence of ocean currents using range and depth measurements. <i>Annual Reviews in Control</i> , 2015 , 40, 142-156	10.3	14
161	Robust Moving Path Following Control for Robotic Vehicles: Theory and Experiments. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 3192-3199	4.2	14
160	Target tracking of autonomous robotic vehicles using range-only measurements: a switched logic-based control strategy. <i>International Journal of Robust and Nonlinear Control</i> , 2012 , 22, 1983-1998	3.6	14
159	A distributed formation-based odor source localization algorithm - design, implementation, and wind tunnel evaluation 2015 ,		13
158	A Predictive Path-Following Approach for Fixed-Wing Unmanned Aerial Vehicles in Presence of Wind Disturbances. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 623-634	0.4	13
157	Cooperative path-following for multirotor UAVs with a suspended payload 2015 ,		13
156	A Decentralized Strategy for Multirobot Sampling/Patrolling: Theory and Experiments. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 313-322	4.8	13
155	Distributed state estimation for discrete-time linear time invariant systems: A survey. <i>Annual Reviews in Control</i> , 2019 , 48, 36-56	10.3	12

154	Second-Order-Optimal Minimum-Energy Filters on Lie Groups. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 2906-2919	5.9	12
153	Robust filtering for deterministic systems with implicit outputs. <i>Systems and Control Letters</i> , 2009 , 58, 263-270	2.4	12
152	A Lyapunov-based approach for Time-Coordinated 3D Path-Following of multiple quadrotors 2012 ,		12
151	A new approach to multi-robot harbour patrolling: Theory and experiments 2012 ,		12
150	Marine Vehicle Path Following Using Inner-Outer Loop Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 38-43		12
149	Towards 3-D distributed odor source localization: An extended graph-based formation control algorithm for plume tracking 2016 ,		12
148	Deep Learning-Assisted Short-Term Load Forecasting for Sustainable Management of Energy in Microgrid. <i>Inventions</i> , 2021 , 6, 15	2.9	12
147	Low-Level Active Visual Navigation: Increasing Robustness of Vision-Based Localization Using Potential Fields. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 2079-2086	4.2	11
146	Minimum number of information gatherers to ensure full observability of a dynamic social network: A structural systems approach 2014 ,		11
145	Lie group projection operator approach: Optimal control on T SO(3) 2011 ,		11
144	Triangular formation control using range measurements: An application to marine robotic vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 112-117		11
143	2015 ,		10
142	Control Barrier Function-Based Quadratic Programs Introduce Undesirable Asymptotically Stable Equilibria 2021 , 5, 731-736		10
141	Selective strong structural minimum-cost resilient co-design for regular descriptor linear systems. <i>Automatica</i> , 2019 , 102, 80-85	5.7	9
140	Structurally Observable Distributed Networks of Agents Under Cost and Robustness Constraints. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2018 , 4, 236-247	2.8	9
139	Benchmarking IoT middleware platforms 2017 ,		9
138	Minimum Robust Sensor Placement for Large Scale Linear Time-Invariant Systems: A Structured Systems Approach*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 417-424		9
137	Vision-based control for rigid body stabilization. <i>Automatica</i> , 2011 , 47, 1020-1027	5.7	9

136	Time-Coordinated Path Following of Multiple UAVs over Time-Varying Networks using L1 Adaptation 2008 ,		9
135	Moving Path Following Control of Constrained Underactuated Vehicles: A Nonlinear Model Predictive Control Approach 2018 ,		8
134	A Graph-Based Formation Algorithm for Odor Plume Tracing. <i>Springer Tracts in Advanced Robotics</i> , 2016 , 255-269	0.5	8
133	VirtualArena: An object-oriented MATLAB toolkit for control system design and simulation 2017 ,		8
132	Cooperative AUV motion planning using terrain information 2013 ,		8
131	A framework for actuator placement in large scale power systems: Minimal strong structural controllability 2013 ,		8
130	Second-order-optimal filters on Lie groups 2013 ,		8
129	Cooperative Motion Planning for Multiple Autonomous Marine Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 244-249		8
128	Temporally and Spatially Deconflicted Path Planning for Multiple Autonomous Marine Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 376-381		8
127	Stabilization of the Extended Nonholonomic Double Integrator Via Logic-Based Hybrid Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000 , 33, 351-356		8
126	A feedback motion strategy applied to a UAV to work as an autonomous relay node for maritime operations 2017 ,		7
125	Icing detection and identification for unmanned aerial vehicles using adaptive nested multiple models. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017 , 31, 1584-1607	2.8	7
124	A Model predictive control scheme with ultimate bound for economic optimization 2015 ,		7
123	2014 ,		7
122	Cooperative control of multiple autonomous marine vehicles: theoretical foundations and practical issues 2012		7
121	A Model Predictive Control scheme with additional performance index for transient behavior 2013 ,		7
120	2013 ,		7
119	A model checking framework for linear time invariant switching systems using structural systems analysis 2013 ,		7

118	AUV range-only localization and mapping: Observer design and experimental results 2013 ,		7
117	Constrained motion planning for multiple vehicles on SE(3) 2012 ,		7
116	Moving path following for autonomous robotic vehicles 2013 ,		7
115	Time-Critical Cooperative Path Following of Multiple UAVs: Case Studies 2015 , 209-233		6
114	Optimal UAV Rendezvous on a UGV 2016 ,		6
113	Observability Analysis of 3D AUV Trimming Trajectories in the Presence of Ocean Currents using Single Beacon Navigation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 4222-4227		6
112	Self-triggered cooperative path following control of fixed wing Unmanned Aerial Vehicles 2017 ,		6
111	A Model Predictive Control-Based Architecture for Cooperative Path-Following of Multiple Unmanned Aerial Vehicles. <i>Lecture Notes in Control and Information Sciences</i> , 2015 , 141-160	0.5	6
110	An economic model predictive control scheme with terminal penalty for continuous-time systems 2014 ,		6
109	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		6
108	Optimal control on non-compact lie groups: A projection operator approach 2010 ,		6
107	A performance based model-set design strategy for Multiple Model Adaptive Estimation 2009 ,		6
106	An Underwater Acoustic Localisation System for Assisted Human Diving Operations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 206-211		6
105	Cooperative Motion Control of Multiple Autonomous Marine Vehicles: Collision Avoidance in Dynamic Environments. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 395-400		6
104	NONLINEAR MOTION CONTROL OF MULTIPLE AUTONOMOUS UNDERWATER VEHICLES. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 75-80		6
103	Optimization Based Control for Target Estimation and Tracking via Highly Observable Trajectories. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 495-504	0.2	6
102	Finite-dimensional control of linear discrete-time fractional-order systems. <i>Automatica</i> , 2020 , 115, 1085127		5
101	A convoy protection strategy using the moving path following method 2016 ,		5

100	Three dimensional moving path following for fixed-wing unmanned aerial vehicles 2017 ,		5
99	A design method for distributed luenberger observers 2017 ,		5
98	Path planning for multiple marine vehicles 2009 ,		5
97	Seabed tracking of an autonomous underwater vehicle with nonlinear output regulation 2011 ,		5
96	Single Beacon Acoustic Navigation for an AUV in the presence of unknown ocean currents. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 298-303		5
95	Nonlinear adaptive depth tracking and attitude control of an underwater towed vehicle. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 211-216		5
94	Exploration of Kinematic Optimal Control on the Lie Group $SO(3)^*$. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 1302-1307		5
93	LIMITS OF PERFORMANCE IN REFERENCE-TRACKING AND PATH-FOLLOWING FOR NONLINEAR SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 264-269		5
92	Turn-to-Turn Short Circuit Fault Localization in Transformer Winding via Image Processing and Deep Learning Method. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	5
91	Constrained Optimal Motion Planning for Autonomous Vehicles Using PRONTO. <i>Lecture Notes in Control and Information Sciences</i> , 2017 , 207-226	0.5	4
90	Underwater localization and mapping: observability analysis and experimental results. <i>Industrial Robot</i> , 2014 , 41, 213-224	1.4	4
89	A planar path-following model predictive controller for fixed-wing Unmanned Aerial Vehicles 2017 ,		4
88	Analysis and design of electric power grids with p-robustness guarantees using a structural hybrid system approach 2015 ,		4
87	An energy efficient trajectory tracking controller for car-like vehicles using Model Predictive Control 2015 ,		4
86	2015 ,		4
85	Dynamic Load Allocation for Multi-Homing via Coded Packets 2013 ,		4
84	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		4
83	Further results on plant parameter identification using continuous-time multiple-model adaptive estimators 2009 ,		4

82	Observability Analysis for AUV Range-only Localization and Mapping Measures of Unobservability and Experimental Results. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 325-330		4
81	Multiple Marine Vehicle Deconflicted Path Planning with Currents and Communication Constraints. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 491-496		4
80	SLAM for an AUV using vision and an acoustic beacon. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 503-508		4
79	2007 ,		4
78	On the design of discrete-time Economic Model Predictive Controllers 2016 ,		4
77	Design of a distributed quantized luenberger filter for bounded noise 2016 ,		4
76	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/CT/MEC/PT2020 and project STRIDE - NORTE-01-0145-FEDER-000033, funded by ERDF/NORTE 2020. <i>IFAC-PapersOnLine</i> , 2017 , 50, 8692-8697	0.7	3
75	A virtual target approach for trajectory optimization of a general class of constrained vehicles 2015 ,		3
74	A consensus algorithm for networks with process noise and quantization error 2015 ,		3
73	An Optimization-Based Framework for Impulsive Control Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2015 , 277-300	0.5	3
72	FVMS Software-in-the-Loop Flight Simulation Experiments: Guidance, Navigation and Control 2014 ,		3
71	Optimal cost actuator/sensor placement for large scale linear time-invariant systems: A structured systems approach 2013 ,		3
70	An Exponential Observer for Systems on SE(3) with Implicit Outputs. <i>Springer Proceedings in Mathematics</i> , 2011 , 611-633		3
69	2011 ,		3
68	Online Mission Planning for Cooperative Target Tracking of Marine Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 185-189		3
67	Identification and Convergence Analysis of a Class of Continuous-Time Multiple-Model Adaptive Estimators. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 8605-8610		3
66	State estimation for continuous-time systems with perspective outputs from discrete noisy time-delayed measurements 2004 ,		3
65	DYNAMIC POSITIONING OF AN UNDERACTUATED AUV IN THE PRESENCE OF A CONSTANT UNKNOWN OCEAN CURRENT DISTURBANCE. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 283-288		3

64	Multiple Model Adaptive Estimation for open loop unstable plants 2013 ,		3
63	A Sampled-Data Model Predictive Framework for Cooperative Path Following of Multiple Robotic Vehicles. <i>Lecture Notes in Control and Information Sciences</i> , 2017 , 473-494	0.5	3
62	An Optimization-Based Cooperative Path-Following Framework for Multiple Robotic Vehicles. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 1002-1014	4	3
61	Online Range-Based SLAM Using B-Spline Surfaces. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 1958-1965	1.2	3
60	A Framework for Depth Estimation and Relative Localization of Ground Robots using Computer Vision 2019 ,		3
59	Cooperative Moving Path Following Using Event Based Control and Communication 2018 ,		3
58	Flexible triangular formation keeping of marine robotic vehicles using range measurements 1. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 5145-5150		2
57	A fault detection and isolation scheme for formation control of fixed-wing UAVs 2017 ,		2
56	2017 ,		2
55	Adaptive leader-follower formation control of autonomous marine vehicles 2014 ,		2
54	Designing Decentralized Control Systems without Structural Fixed Modes: A Multilayer Approach*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 81-88		2
53	A Multiple Model Adaptive Wave Filter for Dynamic Ship Positioning. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 120-125		2
52	State Estimation for Systems with Implicit Outputs for the Integration of Vision and Inertial Sensors		2
51	Stability of switched seesaw systems with application to the stabilization of underactuated vehicles		2
50	Image Processing Based Approach for False Data Injection Attacks Detection in Power Systems. <i>IEEE Access</i> , 2021 , 1-1	3.5	2
49	On Coordinated Road Search using Time-Coordinated Path Following of Multiple UAVs 2010 ,		2
48	A DFIG-based Wind Turbine Operation under Balanced and Unbalanced Grid Voltage Conditions. <i>IFAC-PapersOnLine</i> , 2020 , 53, 12835-12840	0.7	2
47	Zero Dynamics and Tracking Performance Limits in Nonlinear Feedback Systems 2008 , 149-159		2

46	Design and Implementation of a Range-Based Formation Controller for Marine Robots. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 55-67	0.4	2
45	An Unmanned Aircraft System for Maritime Operations: The Automatic Detection Subsystem. <i>Marine Technology Society Journal</i> , 2021 , 55, 38-49	0.5	2
44	A B-Spline Mapping Framework for Long-Term Autonomous Operations 2018 ,		2
43	Distributed Inverse Optimal Control for Discrete-Time Nonlinear Multi-Agent Systems 2021 , 5, 2096-2101		2
42	Adaptive Sampling Using an Unsupervised Learning of GMMs Applied to a Fleet of AUVs with CTD Measurements. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 321-332	0.4	1
41	2017 ,		1
40	Multiple-model adaptive state estimation of the HIV-1 infection using a moving horizon approach 2013 ,		1
39	Obstacle detection from overhead imagery using self-supervised learning for Autonomous Surface Vehicles 2011 ,		1
38	A Switched Based Control Strategy for Target Tracking of Autonomous Robotic Vehicles using Range-only Measurements. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 12819-12824		1
37	Optimal Control on Lie Groups: Implementation Details of the Projection Operator Approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 14567-14572		1
36	A Minimum Energy solution to Monocular Simultaneous Localization and Mapping 2011 ,		1
35	State estimation for systems on SE(3) with implicit outputs: An application to visual servoing*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 921-926		1
34	Moving Horizon Estimation with Decimated Observations *. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 296-301		1
33	Multiple-model adaptive estimators: Open problems and future directions 2007 ,		1
32	A Secure Federated Deep Learning-Based Approach for Heating Load Demand Forecasting in Building Environment. <i>IEEE Access</i> , 2022 , 10, 5037-5050	3.5	1
31	Feature Based Potential Field for Low-Level Active Visual Navigation. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 791-800	0.4	1
30	Unsupervised Learning of Gaussian Mixture Models in the Presence of Dynamic Environments. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 387-396	0.2	1
29	Active Depth Estimation: Stability Analysis and its Applications 2020 ,		1

28	An algorithm for formation-based chemical plume tracing using robotic marine vehicles 2016 ,		1
27	Robust Cooperative Moving Path Following Control for Marine Robotic Vehicles. <i>Frontiers in Robotics and AI</i> , 2019 , 6, 121	2.8	1
26	Modelling, Control and Performance Evaluation of an AC/DC Microgrid 2019 ,		1
25	. <i>IEEE Journal of Oceanic Engineering</i> , 2021 , 1-14	3.3	1
24	A Nonlinear Model Predictive Control for an AUV to Track and Estimate a Moving Target Using Range Measurements. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 161-170	0.4	1
23	A Model Predictive Cloud-Based Control Scheme for Trajectory-Tracking: Effects of Round-Trip Time Over-Estimates 2018 ,		1
22	A coverage planner for AUVs using B-splines 2018 ,		1
21	An unmanned aircraft system for maritime operations: The sense and avoid subsystem with software-in-the-loop evaluation. <i>International Journal of Advanced Robotic Systems</i> , 2018 , 15, 172988141878633	1.4	1
20	Multi-agent detection and labelling of activity patterns. <i>Signal, Image and Video Processing</i> , 2020 , 14, 1207-1215	1.6	0
19	Constrained Hopping Traversability Analysis on Non-Uniform Polygonal Chains. <i>IEEE Access</i> , 2020 , 8, 36691-36701	3.5	0
18	Accelerated Generalized Correntropy Interior Point Method in Power System State Estimation. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 658-667	0.2	0
17	Distributed LQ Control of a Water Delivery Canal Based on a Selfish Game. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 466-476	0.2	0
16	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	5.9	0
15	An overview of structural systems theory. <i>Automatica</i> , 2022 , 140, 110229	5.7	0
14	A Path-Following Controller for Marine Vehicles Using a Two-Scale Inner-Outer Loop Approach. <i>Sensors</i> , 2022 , 22, 4293	3.8	0
13	Corrigendum to Belective strong structural minimum-cost resilient co-design for regular descriptor linear systems[<i>Automatica</i> 102 (2019) 8085]. <i>Automatica</i> , 2019 , 107, 612	5.7	
12	On the Linearization Up to Multi-Output Injection for a Class of Systems With Implicitly Defined Outputs. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 1310-1315	5.9	
11	Covariant differentiation of a map in the context of geometric optimal control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 499-505		

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 10 | Four-Quadrant Propeller Modeling: A Low-Order Harmonic Approximation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 161-166 | |
| 9 | On the Use of a Maximum Correntropy Criterion in Kalman Filtering Based Strategies for Robot Localization and Mapping. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 548-558 | 0.2 |
| 8 | Direct Power Control of a Doubly Fed Induction Generator Using a Lyapunov Based State Space Approach. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 628-637 | 0.2 |
| 7 | Coordinated Multi-UAV Exploration Strategy for Large Areas with Communication Constrains. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 149-160 | 0.4 |
| 6 | A Cooperative Personal Agenda in a Collaborative Team Environment. <i>Lecture Notes in Computer Science</i> , 2009 , 193-196 | 0.9 |
| 5 | Structurally quotient fixed modes. <i>Systems and Control Letters</i> , 2021 , 151, 104914 | 2.4 |
| 4 | On Incremental Structure from Motion Using Lines. <i>IEEE Transactions on Robotics</i> , 2021 , 1-16 | 6.5 |
| 3 | Three Dimensional Moving Path Following Control for Robotic Vehicles With Minimum Positive Forward Speed 2022 , 6, 79-84 | |
| 2 | Robust Path-Following Control of Underactuated Marine Vehicles Using Gradient-Descent Fuzzy Estimation. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 37-47 | 0.2 |
| 1 | Cooperative Path Following with Collision Avoidance Guarantees Using Control Lyapunov and Barrier Functions. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 181-193 | 0.2 |