

Dimos V Dimarogonas

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1105508/dimos-v-dimarogonas-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

153
papers

5,053
citations

27
h-index

69
g-index

167
ext. papers

6,651
ext. citations

4.1
avg, IF

6.51
L-index

#	Paper	IF	Citations
153	Distributed Event-Triggered Control for Multi-Agent Systems. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1291-1297	5.9	1289
152	Event-based broadcasting for multi-agent average consensus. <i>Automatica</i> , 2013 , 49, 245-252	5.7	745
151	Leader-follower cooperative attitude control of multiple rigid bodies. <i>Systems and Control Letters</i> , 2009 , 58, 429-435	2.4	241
150	Global consensus for discrete-time multi-agent systems with input saturation constraints. <i>Automatica</i> , 2014 , 50, 499-506	5.7	215
149	A feedback stabilization and collision avoidance scheme for multiple independent non-point agents. <i>Automatica</i> , 2006 , 42, 229-243	5.7	192
148	Stability analysis for multi-agent systems using the incidence matrix: Quantized communication and formation control. <i>Automatica</i> , 2010 , 46, 695-700	5.7	173
147	Dynamic Event-Triggered and Self-Triggered Control for Multi-agent Systems. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 3300-3307	5.9	120
146	Event-triggered control for multi-agent systems 2009 ,		119
145	. <i>IEEE Transactions on Control of Network Systems</i> , 2015 , 2, 204-213	4	111
144	Multi-agent plan reconfiguration under local LTL specifications. <i>International Journal of Robotics Research</i> , 2015 , 34, 218-235	5.7	102
143	On the stability of distance-based formation control 2008 ,		74
142	Event-triggered intermittent sampling for nonlinear model predictive control. <i>Automatica</i> , 2017 , 81, 148-155	5.7	71
141	Leader-follower Coordinated Tracking of Multiple Heterogeneous Lagrange Systems Using Continuous Control. <i>IEEE Transactions on Robotics</i> , 2014 , 30, 739-745	6.5	70
140	Distributed event-based control strategies for interconnected linear systems. <i>IET Control Theory and Applications</i> , 2013 , 7, 877-886	2.5	63
139	Self-Triggered Model Predictive Control for Nonlinear Input-Affine Dynamical Systems via Adaptive Control Samples Selection. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 177-189	5.9	62
138	Control Barrier Functions for Signal Temporal Logic Tasks 2019 , 3, 96-101		60
137	Novel event-triggered strategies for Model Predictive Controllers 2011 ,		56

136	Decentralized connectivity maintenance in mobile networks with bounded inputs 2008 ,		55
135	Distributed aperiodic model predictive control for multi-agent systems. <i>IET Control Theory and Applications</i> , 2015 , 9, 10-20	2.5	49
134	A General Approach to Coordination Control of Mobile Agents With Motion Constraints. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 1509-1516	5.9	46
133	Multi-agent planning under local LTL specifications and event-based synchronization. <i>Automatica</i> , 2016 , 70, 239-248	5.7	44
132	Fuel-Efficient En Route Formation of Truck Platoons. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 102-112	6.1	43
131	Simultaneous task allocation and planning for temporal logic goals in heterogeneous multi-robot systems. <i>International Journal of Robotics Research</i> , 2018 , 37, 818-838	5.7	43
130	Multi-Agent Second Order Average Consensus With Prescribed Transient Behavior. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5282-5288	5.9	40
129	Fuel-optimal centralized coordination of truck platooning based on shortest paths 2015 ,		34
128	Robust Self-Triggered MPC With Adaptive Prediction Horizon for Perturbed Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 4780-4787	5.9	32
127	Robust formation control in SE(3) for tree-graph structures with prescribed transient and steady state performance. <i>Automatica</i> , 2019 , 103, 538-548	5.7	27
126	Nonlinear consensus via continuous, sampled, and aperiodic updates. <i>International Journal of Control</i> , 2013 , 86, 567-578	1.5	27
125	Distributed Event-Triggered Communication and Control of Linear Multiagent Systems Under Tactile Communication. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 3979-3985	5.9	26
124	Control Barrier Functions for Multi-Agent Systems Under Conflicting Local Signal Temporal Logic Tasks 2019 , 3, 757-762		25
123	Decentralized multi-agent control from local LTL specifications 2012 ,		25
122	Collective Circumnavigation. <i>Unmanned Systems</i> , 2014 , 02, 219-229	3	24
121	A robust interaction control approach for underwater vehicle manipulator systems. <i>Annual Reviews in Control</i> , 2018 , 46, 315-325	10.3	24
120	3D navigation and collision avoidance for a non-holonomic vehicle 2008 ,		22
119	Robust Trajectory Tracking Control for Underactuated Autonomous Underwater Vehicles in Uncertain Environments. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 18, 1288-1301	4.9	22

118	A receding horizon approach to multi-agent planning from local LTL specifications 2014 ,		20
117	Inverse Agreement Protocols With Application to Distributed Multi-Agent Dispersion. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 657-663	5.9	20
116	Event-triggered pinning control of complex networks with switching topologies 2014 ,		19
115	A self-triggered Model Predictive Control framework for the cooperation of distributed nonholonomic agents 2013 ,		18
114	Event-Based Vehicle Coordination Using Nonlinear Unidirectional Controllers. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 1575-1584	4	18
113	Multi-agent average consensus control with prescribed performance guarantees 2012 ,		17
112	Sufficient Conditions for Decentralized Potential Functions Based Controllers Using Canonical Vector Fields. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 2621-2626	5.9	17
111	Robust control for signal temporal logic specifications using discrete average space robustness. <i>Automatica</i> , 2019 , 101, 377-387	5.7	17
110	Control of multi-agent systems with event-triggered cloud access 2015 ,		16
109	Event-based model Predictive control for the cooperation of distributed agents 2012 ,		16
108	Connectivity preserving distributed swarm aggregation for multiple kinematic agents 2007 ,		15
107	Cloud-Supported Formation Control of Second-Order Multiagent Systems. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 1563-1574	4	15
106	Decentralized tube-based model predictive control of uncertain nonlinear multiagent systems. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 2799-2818	3.6	14
105	Closed-Form Barrier Functions for Multi-Agent Ellipsoidal Systems With Uncertain Lagrangian Dynamics 2019 , 3, 727-732		13
104	Robust Cooperative Manipulation Without Force/Torque Measurements: Control Design and Experiments. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 713-729	4.8	13
103	Robust decentralised navigation of multi-agent systems with collision avoidance and connectivity maintenance using model predictive controllers. <i>International Journal of Control</i> , 2020 , 93, 1470-1484	1.5	13
102	Robustness and Invariance of Connectivity Maintenance Control for Multiagent Systems. <i>SIAM Journal on Control and Optimization</i> , 2017 , 55, 1887-1914	1.9	12
101	Hierarchical Decomposition of LTL Synthesis Problem for Nonlinear Control Systems. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 4676-4683	5.9	12

100	Communication-Free Multi-Agent Control Under Local Temporal Tasks and Relative-Distance Constraints. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 3948-3962	5.9	12
99	Event-triggered control for vehicle platooning 2015 ,		12
98	Leader-Follower Formation Control With Prescribed Performance Guarantees. <i>IEEE Transactions on Control of Network Systems</i> , 2021 , 8, 450-461	4	12
97	Family of controllers for attitude synchronization on the sphere. <i>Automatica</i> , 2017 , 75, 271-281	5.7	11
96	Slung load transportation with a single aerial vehicle and disturbance removal 2016 ,		11
95	Periodic Behaviors for Discrete-Time Second-Order Multiagent Systems With Input Saturation Constraints. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2016 , 63, 663-667	3.5	11
94	Explicit Computation of Sampling Period in Periodic Event-Triggered Multiagent Control Under Limited Data Rate. <i>IEEE Transactions on Control of Network Systems</i> , 2019 , 6, 1366-1378	4	10
93	A Self-triggered Position Based Visual Servoing Model Predictive Control Scheme for Underwater Robotic Vehicles. <i>Machines</i> , 2020 , 8, 33	2.9	10
92	Coordinating Truck Platooning by Clustering Pairwise Fuel-Optimal Plans 2015 ,		10
91	Communication-based Decentralized Cooperative Object Transportation Using Nonlinear Model Predictive Control 2018 ,		10
90	Event-Triggered Control of Nonlinear Systems With Updating Threshold 2019 , 3, 655-660		9
89	Aperiodic Sampled-Data Control via Explicit Transmission Mapping: A Set-Invariance Approach. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 3523-3530	5.9	9
88	Analysis of robot navigation schemes using Rantzer's Dual Lyapunov Theorem 2008 ,		9
87	On Robustness Metrics for Learning STL Tasks 2020 ,		8
86	Distributed ℓ_1 -State-and-Fault Estimation for Multiagent Systems. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 699-710	4	8
85	Barrier Function Based Collaborative Control of Multiple Robots Under Signal Temporal Logic Tasks. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 1916-1928	4	8
84	Motion Feasibility Conditions for Multiagent Control Systems on Lie Groups. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 493-502	4	8
83	Feedback control strategies for multi-agent systems under a fragment of signal temporal logic tasks. <i>Automatica</i> , 2019 , 106, 284-293	5.7	7

82	Decentralized motion planning with collision avoidance for a team of UAVs under high level goals 2017 ,		7
81	Posture regulation for unicycle-like robots with prescribed performance guarantees. <i>IET Control Theory and Applications</i> , 2015 , 9, 192-202	2.5	7
80	Decomposition of Finite LTL Specifications for Efficient Multi-agent Planning. <i>Springer Proceedings in Advanced Robotics</i> , 2018 , 253-267	0.6	6
79	L2 gain stability analysis of event-triggered agreement protocols 2011 ,		6
78	Multi-agent trajectory tracking with self-triggered cloud access 2016 ,		6
77	Adaptive robot navigation with collision avoidance subject to 2nd-order uncertain dynamics. <i>Automatica</i> , 2021 , 123, 109303	5.7	6
76	High-order Barrier Functions: Robustness, Safety and Performance-Critical Control. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	6
75	Compositional abstraction refinement for control synthesis. <i>Nonlinear Analysis: Hybrid Systems</i> , 2018 , 27, 437-451	4.5	5
74	Decentralized Robust Control of Coupled Multi-Agent Systems under Local Signal Temporal Logic Tasks 2018 ,		5
73	Distributed solution for a Maximum Variance Unfolding Problem with sensor and robotic network applications 2012 ,		5
72	Opinion consensus of modified Hegselmann-Krause models 2012 ,		5
71	Quantized agreement under time-varying communication topology 2008 ,		5
70	An inverse agreement control strategy with application to swarm dispersion 2007 ,		5
69	A robust non-linear MPC framework for control of underwater vehicle manipulator systems under high-level tasks. <i>IET Control Theory and Applications</i> , 2021 , 15, 323-337	2.5	5
68	2016 ,		5
67	Decentralized abstractions for multi-agent systems under coupled constraints. <i>European Journal of Control</i> , 2019 , 45, 1-16	2.5	5
66	Coupled Multi-Robot Systems Under Linear Temporal Logic and Signal Temporal Logic Tasks. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 858-865	4.8	5
65	Timed abstractions for distributed cooperative manipulation. <i>Autonomous Robots</i> , 2018 , 42, 781-799	3	5

64	Decentralized Control of Uncertain Multi-Agent Systems with Connectivity Maintenance and Collision Avoidance 2018,		5
63	2019,		4
62	A hybrid systems framework for multi agent task planning and control 2017,		4
61	Event-triggered model predictive control with machine learning for compensation of model uncertainties 2017,		4
60	2017,		4
59	Consensus in multi-agent systems with second-order dynamics and non-periodic sampled-data exchange 2014,		4
58	Quantized cooperative control using relative state measurements 2011,		4
57	Leader-follower cooperative attitude control of multiple rigid bodies 2008,		4
56	Efficient Automata-based Planning and Control under Spatio-Temporal Logic Specifications 2020,		4
55	A Hybrid Controller for Obstacle Avoidance in an n -dimensional Euclidean Space 2019,		4
54	A Tube-based MPC Scheme for Interaction Control of Underwater Vehicle Manipulator Systems 2018,		4
53	Control Design for Risk-Based Signal Temporal Logic Specifications 2020, 4, 1000-1005		3
52	Self-triggered control for constrained systems: A contractive set-based approach 2017,		3
51	A common framework for attitude synchronization of unit vectors in networks with switching topology 2016,		3
50	Consensus Control for Leader-follower Multi-agent Systems under Prescribed Performance Guarantees 2019,		3
49	Resource-aware networked control systems under temporal logic specifications. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2019 , 29, 473-499	1	3
48	A Common Framework for Complete and Incomplete Attitude Synchronization in Networks With Switching Topology. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 271-278	5.9	3
47	Synthesizing Communication Plans for Reachability and Safety Specifications. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 561-576	5.9	3

46	Self- Triggered Control under Actuator Delays 2018 ,		3
45	A hybrid barrier certificate approach to satisfy linear temporal logic specifications 2018 ,		3
44	A Symbolic Approach to the Self-Triggered Design for Networked Control Systems 2019 , 3, 1050-1055		2
43	Symmetry Reduction in Optimal Control of Multiagent Systems on Lie Groups. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 4973-4980	5.9	2
42	Robust decentralized abstractions for multiple mobile manipulators 2017 ,		2
41	Aperiodic model predictive control via perturbation analysis 2012 ,		2
40	Inverse agreement algorithms with application to swarm dispersion for multiple nonholonomic agents 2008 ,		2
39	Compositional abstraction refinement for control synthesis under lasso-shaped specifications 2017 ,		2
38	Energy-Optimal Cooperative Manipulation via Provable Internal-Force Regulation 2020 ,		2
37	Second Order Consensus for Leader-follower Multi-agent Systems with Prescribed Performance. <i>IFAC-PapersOnLine</i> , 2019 , 52, 103-108	0.7	2
36	Asymptotic Tracking of Second-Order Nonsmooth Feedback Stabilizable Unknown Systems With Prescribed Transient Response. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 3296-3302	5.9	2
35	Distributed Motion Coordination for Multirobot Systems Under LTL Specifications. <i>IEEE Transactions on Robotics</i> , 2021 , 1-16	6.5	2
34	Generalized PID Synchronization of Higher Order Nonlinear Systems With a Recursive Lyapunov Approach. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 1608-1621	4	2
33	Event-Triggered Control for a Class of Cascade Systems 2018 ,		2
32	Optimal Control of Left-Invariant Multi-Agent Systems with Asymmetric Formation Constraints 2018 ,		2
31	Robust self-triggered control for time-varying and uncertain constrained systems via reachability analysis. <i>Automatica</i> , 2019 , 107, 574-581	5.7	1
30	Motion and action planning under LTL specifications using navigation functions and action description language 2013 ,		1
29	Collaborative transportation of a bar by two aerial vehicles with attitude inner loop and experimental validation 2017 ,		1

28	Multi-Agent Motion Planning and Object Transportation under High Level Goals * *This work was supported by the H2020 ERC Starting Grant BU-COPHSYS, the Swedish Research Council (VR), the Knut och Alice Wallenberg Foundation and the European Union Horizon 2020 Research and Innovation Programme under the Grant Agreement No. 644128 (AEROWORKS). <i>IFAC-PapersOnLine, Consensus in multi-agent systems with non-periodic sampled-data exchange and uncertain network topology</i> 2014 ,	0.7	1
27			1
26	Obstacle avoidance in formation using navigation-like functions and constraint based programming 2013 ,		1
25	Revising motion planning under Linear Temporal Logic specifications in partially known workspaces 2013 ,		1
24	Sufficient conditions for decentralized navigation functions based controllers using canonical vector fields 2011 ,		1
23	A decentralized event-based predictive navigation scheme for Air-Traffic Control 2012 ,		1
22	Further results on formation infeasibility and velocity alignment 2007 ,		1
21	Reactive and Risk-Aware Control for Signal Temporal Logic. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	1
20	Scalable time-constrained planning of multi-robot systems. <i>Autonomous Robots</i> , 2020 , 44, 1451-1467	3	1
19	Adaptive Leader-Follower Coordination of Lagrangian Multi-Agent Systems under Transient Constraints 2019 ,		1
18	Asymptotic Stability of Uncertain Lagrangian Systems with Prescribed Transient Response 2019 ,		1
17	Distributed Event-Based Control and Stability of Interconnected Systems 2019 ,		1
16	Intermittent Connectivity Maintenance with Heterogeneous Robots using a Beads-on-a-Ring Strategy 2019 ,		1
15	Intermittent Connectivity Maintenance With Heterogeneous Robots. <i>IEEE Transactions on Robotics</i> , 2021 , 37, 225-245	6.5	1
14	Aerial Slung-Load Position Tracking Under Unknown Wind Forces. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 3952-3968	5.9	1
13	Time-constrained multi-agent task scheduling based on prescribed performance control 2018 ,		1
12	On Compatibility and Region of Attraction for Safe, Stabilizing Control Laws. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	1
11	A Robust, Multiple Control Barrier Function Framework for Input Constrained Systems 2022 , 6, 1742-1747	0	0

10	The Two-Stage PI2 Control Strategy 2022 , 6, 2072-2077		o
9	Efficient Cooperation of Heterogeneous Robotic Agents: A Decentralized Framework. <i>IEEE Robotics and Automation Magazine</i> , 2021 , 28, 74-87	3.4	o
8	Satisfaction of Linear Temporal Logic Specifications Through Recurrence Tools for Hybrid Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 818-825	5.9	o
7	Perimeter Surveillance Based on Set-Invariance. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 9-16	4.2	o
6	. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 6789-6796	4.2	o
5	Signal Temporal Logic Task Decomposition via Convex Optimization 2022 , 6, 1238-1243		o
4	Adaptive Cooperative Control for Human-Robot Load Manipulation. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 5623-5630	4.2	o
3	Distributed Implementation of Control Barrier Functions for Multi-agent Systems 2022 , 6, 1879-1884		
2	Time-constrained leader-follower multi-agent task scheduling and control synthesis. <i>IEEE Transactions on Control of Network Systems</i> , 2021 , 1-1	4	
1	Obstacle Avoidance via Hybrid Feedback. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	