List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Scheduling and Robust Invariance in Networked Control Systems. IEEE Transactions on Automatic Control, 2022, 67, 3075-3082.	3.6	2
2	A Semidistributed Interior Point Algorithm for Optimal Coordination of Automated Vehicles at Intersections. IEEE Transactions on Control Systems Technology, 2022, 30, 1977-1989.	3.2	2
3	Optimal Control Design for Perturbed Constrained Networked Control Systems. , 2021, 5, 553-558.		21
4	A Robust Scenario MPC Approach for Uncertain Multi-Modal Obstacles. , 2021, 5, 947-952.		29
5	Cooperative Intersection Crossing Over 5G. IEEE/ACM Transactions on Networking, 2021, 29, 303-317.	2.6	29
6	Computation of robust control invariant sets with predefined complexity for uncertain systems. International Journal of Robust and Nonlinear Control, 2021, 31, 1674-1688.	2.1	8
7	Tree-Structured Polyhedral Invariant Set Calculations. , 2020, 4, 426-431.		3
8	Experimental validation of a semiâ€distributed sequential quadratic programming method for optimal coordination of automated vehicles at intersections. Optimal Control Applications and Methods, 2020, 41, 1068-1096.	1.3	11
9	Optimisation-based coordination of connected, automated vehicles at intersections. Vehicle System Dynamics, 2020, 58, 726-747.	2.2	23
10	ParkPredict: Motion and Intent Prediction of Vehicles in Parking Lots. , 2020, , .		5
11	Platoon Control based on Predecessor and Delayed Leader Information via Minimized Headway Times. , 2020, , .		2
12	Full-Complexity Characterization of Control-Invariant Domains for Systems With Uncertain Parameter Dependence. , 2019, 3, 19-24.		12
13	Design and Experimental Validation of a Distributed Interaction Protocol for Connected Autonomous Vehicles at a Road Intersection. IEEE Transactions on Vehicular Technology, 2019, 68, 9451-9465.	3.9	49
14	Real-Time Constrained Trajectory Planning and Vehicle Control for Proactive Autonomous Driving With Road Users. , 2019, , .		37
15	Receding-horizon robust online communication scheduling for constrained networked control systems. , 2019, , .		5
16	Optimal Coordination of Automated Vehicles at Intersections: Theory and Experiments. IEEE Transactions on Control Systems Technology, 2019, 27, 2510-2525.	3.2	52
17	Computation of low-complexity control-invariant sets for systems with uncertain parameter dependence. Automatica, 2019, 101, 330-337.	3.0	12

18 Optimal Coordination of Automated Vehicles at Intersections with Turns., 2019,,.

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#	Article	IF	CITATIONS
19	A Data-driven Markovian Framework for Multi-agent Pedestrian Collision Risk Prediction. , 2019, , .		4
20	A Framework for Vehicle Lateral Motion Control With Guaranteed Tracking and Performance. , 2019, , $\cdot$		0
21	Design and Experimental Validation of a Cooperative Driving Control Architecture for the Grand Cooperative Driving Challenge 2016. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1290-1301.	4.7	35
22	Optimal Scheduling of Downlink Communication for a Multi-Agent System With a Central Observation Post. , 2018, 2, 37-42.		16
23	Platoon Control Under a Novel Leader and Predecessor Following Scheme With the Use of an Advanced Aerodynamic Model. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	2
24	Measurement Scheduling for Control Invariance in Networked Control Systems. , 2018, , .		8
25	An MIQP-based heuristic for Optimal Coordination of Vehicles at Intersections. , 2018, , .		25
26	Energy-Optimal Coordination of Autonomous Vehicles at Intersections. , 2018, , .		22
27	A Computationally Efficient Model for Pedestrian Motion Prediction. , 2018, , .		23
28	Collision-Aware Communication for Intersection Management of Automated Vehicles. IEEE Access, 2018, 6, 77359-77371.	2.6	14
29	Low-Complexity Explicit MPC Controller for Vehicle Lateral Motion Control. , 2018, , .		3
30	How to Stop Disagreeing and Start Cooperatingin the Presence of Asymmetric Packet Loss. Sensors, 2018, 18, 1287.	2.1	1
31	Experimental Validation of Distributed Optimal Vehicle Coordination. , 2018, , .		2
32	Traffic coordination at road intersections: Autonomous decision-making algorithms using model-based heuristics. IEEE Intelligent Transportation Systems Magazine, 2017, 9, 8-21.	2.6	77
33	Robust static output feedback synthesis for platoons under leader and predecessor feedback. International Journal of Robust and Nonlinear Control, 2017, 27, 1726-1756.	2.1	6
34	An Asynchronous Algorithm for Optimal Vehicle Coordination at Traffic Intersections * *This work was supported by Copplar (project number 32226302), the Swedish Research Council (VR, grant number) Tj ETC	2q0,050 rgl	3T JOverlock
35	Guaranteeing persistent feasibility of model predictive motion planning for autonomous vehicles. , 2017, , .		11

On the resource allocation problem in wireless networked control systems. , 2017, , .

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#	Article	IF	CITATIONS
37	Restricted-complexity characterization of control-invariant domains with application to lateral vehicle dynamics control. , 2017, , .		4
38	Primal decomposition of the optimal coordination of vehicles at traffic intersections. , 2016, , .		31
39	Coordination of Cooperative Autonomous Vehicles: Toward safer and more efficient road transportation. IEEE Signal Processing Magazine, 2016, 33, 74-84.	4.6	97
40	Coordination of motion actuators in heavy vehicles using Model Predictive Control Allocation. , 2016, , .		3
41	Safe Transitions From Automated to Manual Driving Using Driver Controllability Estimation. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1806-1816.	4.7	45
42	An approximate solution to the optimal coordination problem for autonomous vehicles at intersections. , 2015, , .		58
43	Advanced three dimensional monitoring of structural vibrations and displacements by remote radar sensing. , 2015, , .		2
44	Robust static output feedback synthesis under an integral quadratic constraint on the states. , 2015, , .		1
45	Receding horizon maneuver generation for automated highway driving. Control Engineering Practice, 2015, 41, 124-133.	3.2	59
46	Challenges for cooperative ITS: Improving road safety through the integration of wireless communications, control, and positioning. , 2015, , .		24
47	Design, Analysis, and Experimental Validation of a Distributed Protocol for Platooning in the Presence of Time-Varying Heterogeneous Delays. IEEE Transactions on Control Systems Technology, 2015, , 1-1.	3.2	78
48	Model predictive path planning with time-varying safety constraints for highway autonomous driving. , 2015, , .		23
49	A control matching model predictive control approach to string stable vehicle platooning. Control Engineering Practice, 2015, 45, 163-173.	3.2	83
50	Collision avoidance at intersections: A probabilistic threat-assessment and decision-making system for safety interventions. , 2014, , .		25
51	Controller synthesis for a homogenous platoon under leader and predecessor following scheme. , 2014, , .		Ο
52	New LMI conditions for static output feedback synthesis with multiple performance objectives. , 2014, ,		16
53	Joint synthesis of dynamic feed-forward and static state feedback for platoon control. , 2014, ,		3
54	Communication analysis for centralized intersection crossing coordination. , 2014, , .		13

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55	Cooperation with disagreement correction in the presence of communication failures. , 2014, , .		3
56	Combined longitudinal and lateral control design for string stable vehicle platooning within a designated lane. , 2014, , .		23
57	State feedback synthesis for homogenous platoons under the leader and predecessor following scheme. , 2014, , .		1
58	A Control Matching-based Predictive Approach to String Stable Vehicle Platooning. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10700-10705.	0.4	12
59	Cooperative receding horizon conflict resolution at traffic intersections. , 2014, , .		66
60	Low speed maneuvering assistance for long vehicle combinations. , 2013, , .		4
61	Safety Verification of Automated Driving Systems. IEEE Intelligent Transportation Systems Magazine, 2013, 5, 73-86.	2.6	38
62	Predictive Prevention of Loss of Vehicle Control for Roadway Departure Avoidance. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 56-68.	4.7	23
63	Driver performance in the presence of adaptive cruise control related failures: Implications for safety analysis and fault tolerance. , 2013, , .		22
64	Predictive manoeuvre generation for automated driving. , 2013, , .		29
65	Online driver behavior classification using probabilistic ARX models. , 2013, , .		14
66	Autonomous cooperative driving: A velocity-based negotiation approach for intersection crossing. , 2013, , .		76
67	A Distributed Model Predictive Control Approach to Active Steering Control of String Stable Cooperative Vehicle Platoon. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 750-755.	0.4	22
68	Threat assessment design under driver parameter uncertainty. , 2012, , .		6
69	Reachability analysis of cooperative adaptive cruise controller. , 2012, , .		9
70	Design and Experimental Validation of a Cooperative Driving System in the Grand Cooperative Driving Challenge. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 994-1007.	4.7	186
71	A receding horizon approach to string stable cooperative adaptive cruise control. , 2011, , .		38
72	Model-based threat assessment in semi-autonomous vehicles with model parameter uncertainties. , 2011, , .		2

#	Article	IF	CITATIONS
73	Predictive Threat Assessment via Reachability Analysis and Set Invariance Theory. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 1352-1361.	4.7	85
74	Set-Based Threat Assessment in Lane Guidance Applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 554-559.	0.4	2
75	On Low Complexity Predictive Approaches to Control of Autonomous Vehicles. Lecture Notes in Control and Information Sciences, 2010, , 195-210.	0.6	6
76	Vehicle Controls. The Electrical Engineering Handbook, 2010, , 3-1-3-60.	0.2	1
77	Reference governor for constrained piecewise affine systems. Journal of Process Control, 2009, 19, 1229-1237.	1.7	32
78	Adaptive output-feedback control of MIMO plants with unknown, time-varying state delay. , 2008, , .		1
79	MPC-based yaw and lateral stabilisation via active front steering and braking. Vehicle System Dynamics, 2008, 46, 611-628.	2.2	303
80	INTEGRATED BRAKING AND STEERING MODEL PREDICTIVE CONTROL APPROACH IN AUTONOMOUS VEHICLES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 273-278.	0.4	41
81	Predictive Active Steering Control for Autonomous Vehicle Systems. IEEE Transactions on Control Systems Technology, 2007, 15, 566-580.	3.2	1,015
82	A model predictive control approach for combined braking and steering in autonomous vehicles. , 2007, , .		55
83	Event-based receding horizon control for two-stage multi-product production plants. Control Engineering Practice, 2007, 15, 1556-1568.	3.2	8
84	MPC-based approach to active steering for autonomous vehicle systems. International Journal of Vehicle Autonomous Systems, 2005, 3, 265.	0.2	337
85	Optimal scheduling and control for constrained multiâ€agent networked control systems. Optimal Control Applications and Methods, 0, , .	1.3	3