Yugeng Xi

List of Publications by Year
in descending order

61 papers	1,019 citations	516215 16 h-index	433756 31 g-index
62 all docs	62 docs citations	62 times ranked	911 citing authors

#	Article	IF	Citations
1	Fast Model Predictive Control for Urban Road Networks via MILP. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 846-856.	4.7	170
2	Efficient network-wide model-based predictive control for urban traffic networks. Transportation Research Part C: Emerging Technologies, 2012, 24, 122-140.	3.9	157
3	Two-Level Hierarchical Model-Based Predictive Control for Large-Scale Urban Traffic Networks. IEEE Transactions on Control Systems Technology, 2017, 25, 496-508.	3.2	94
4	Model predictive controller design and implementation on FPGA with application to motor servo system. Control Engineering Practice, 2012, 20, 1229-1235.	3.2	55
5	Constrained model predictive control synthesis for uncertain discrete–time Markovian jump linear systems. IET Control Theory and Applications, 2013, 7, 707-719.	1.2	46
6	Multi–agent model–based predictive control for large–scale urban traffic networks using a serial scheme. IET Control Theory and Applications, 2015, 9, 475-484.	1.2	40
7	Convergence Analysis and Digital Implementation of a Discrete-Time Neural Network for Model Predictive Control. IEEE Transactions on Industrial Electronics, 2014, 61, 7035-7045.	5.2	33
8	Bipartite Consensus on Matrix-Valued Weighted Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1441-1445.	2.2	33
9	Synthesis of ILC–MPC Controller With Data-Driven Approach for Constrained Batch Processes. IEEE Transactions on Industrial Electronics, 2020, 67, 3116-3125.	5.2	30
10	An Improved Predictive Controller on the FPGA by Hardware Matrix Inversion. IEEE Transactions on Industrial Electronics, 2018, 65, 7395-7405.	5.2	21
11	A dynamic network partition method for heterogenous urban traffic networks. , 2012, , .		20
12	A fast network partition method for large-scale urban traffic networks. Journal of Control Theory and Applications, 2013, 11, 359-366.	0.8	20
13	Distributed Weighted Balanced Control of Traffic Signals for Urban Traffic Congestion. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3710-3720.	4.7	20
14	Mixed H_2/H_∞ robust model predictive control with saturated inputs. International Journal of Systems Science, 2014, 45, 2565-2575.	3.7	19
15	Consensus on Matrix-Weighted Switching Networks. IEEE Transactions on Automatic Control, 2021, 66, 5990-5996.	3.6	18
16	FPGA based QDMC control for reverse-osmosis water desalination system. Desalination, 2012, 285, 83-90.	4.0	17
17	Probability-based constrained MPC for structured uncertain systems with state and random input delays. International Journal of Systems Science, 2013, 44, 1354-1365.	3.7	17
18	Overall Traffic Mode Prediction by VOMM Approach and AR Mining Algorithm With Large-Scale Data. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1508-1516.	4.7	17

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19	Stochastic model predictive control for probabilistically constrained Markovian jump linear systems with additive disturbance. International Journal of Robust and Nonlinear Control, 2019, 29, 5002-5016.	2.1	17
20	A Game-Based Adaptive Traffic Signal Control Policy Using the Vehicle to Infrastructure (V2I). IEEE Transactions on Vehicular Technology, 2019, 68, 9425-9437.	3.9	16
21	Output-feedback model predictive control for stochastic systems with multiplicative and additive uncertainty. International Journal of Robust and Nonlinear Control, 2018, 28, 86-102.	2.1	13
22	On the Controllability of Matrix-Weighted Networks. , 2020, 4, 572-577.		13
23	Iterative Learning Control With Data-Driven-Based Compensation. IEEE Transactions on Cybernetics, 2022, 52, 7492-7503.	6.2	13
24	Model predictive control synthesis for constrained Markovian jump linear systems with bounded disturbance. IET Control Theory and Applications, 2017, 11, 3288-3296.	1.2	9
25	Networked and distributed predictive control of non-linear systems subject to asynchronous communication. IET Control Theory and Applications, 2018, 12, 504-514.	1.2	9
26	Periodic event-triggered control for distributed networked multiagents with asynchronous communication: A predictive control approach. International Journal of Robust and Nonlinear Control, 2019, 29, 43-66.	2.1	9
27	Inferring Centrality from Network Snapshots. Scientific Reports, 2017, 7, 40642.	1.6	9
28	Cluster consensus on matrix-weighted switching networks. Automatica, 2022, 141, 110308.	3.0	8
29	Multi-step probabilistic sets in model predictive control for stochastic systems with multiplicative uncertainty. IET Control Theory and Applications, 2014, 8, 1698-1706.	1.2	7
30	The robust model predictive control based on mixed H_2/H_∞ approach with separated performance formulations and its ISpS analysis. International Journal of Control, 2017, 90, 2721-2733.	1.2	7
31	Distributed Integrated Control of a Mixed Traffic Network With Urban and Freeway Networks. IEEE Transactions on Control Systems Technology, 2022, 30, 57-70.	3.2	6
32	Event-Triggered Consensus on Matrix-weighted Networks. , 2021, , .		6
33	Eye-in-Hand Visual Servoing Control of Robot Manipulators Based on an Input Mapping Method. IEEE Transactions on Control Systems Technology, 2023, 31, 402-409.	3.2	6
34	On a spatiotemporally discrete urban traffic model. IET Intelligent Transport Systems, 2014, 8, 219-231.	1.7	5
35	Characterizing bipartite consensus on signed matrix-weighted networks via balancing set. Automatica, 2022, 141, 110237.	3.0	5
36	Short term urban traffic mode prediction based on VOMM. , 2016, , .		4

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37	Model predictive control design for polytopic uncertain systems by synthesising multi-step prediction scenarios. International Journal of Systems Science, 2018, 49, 344-357.	3.7	4
38	A new waste characterization method for the anaerobic digestion based on ADM1. Chemical Engineering Communications, 2017, 204, 1428-1444.	1.5	3
39	Stochastic traffic modelling and decentralised signal control based on a state transition probability model. IET Intelligent Transport Systems, 2018, 12, 909-920.	1.7	3
40	Research on goods picking-up problem in mixed warehouse based on multiple scheduling strategy. , 2013, , .		2
41	A fast algorithm for MPC based on aggregation strategy. , 2013, , .		2
42	Model predictive control with swithing strategy for a train system. , 2014, , .		2
43	The application research of forward DC-DC converter control based on decaying amplification aggregation strategy in predictive control. , 2015, , .		2
44	The optimization of location and control of pump stations in urban drainage system. , 2016, , .		2
45	predictive control with probability constraints for linear stochastic systems. IET Control Theory and Applications, 2017, 11, 557-566.	1.2	2
46	Distributed multi€agent optimisation via coordination with second€order nearest neighbours. IET Control Theory and Applications, 2020, 14, 1733-1743.	1.2	2
47	Stabilization of linear discrete-time periodic systems with uncertain period. , 2013, , .		1
48	Model predictive control for constrained uncertain piecewise linear systems. Journal of Control Theory and Applications, 2013, 11, 230-236.	0.8	1
49	Algorithms for determining networks' feasible control schemes. , 2015, , .		1
50	Extending signal temporal logic specifications for distributed model predictive control. , 2017, , .		1
51	The research of grid-connected inverter control based on decaying amplification aggregation strategy in predictive control. Cluster Computing, 2019, 22, 6633-6646.	3.5	1
52	Consensus of Second-order Matrix-weighted Multi-agent Networks. , 2020, , .		1
53	Constrained feedback RMPC for a category of LPV systems. , 2011, , .		0
54	Constrained MPC designs for structured uncertain systems with random input delays. , 2012, , .		0

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55	Ensemble learning based urban traffic state prediction for coupling traffic network with large scale data. , 2016, , .		0
56	Leader-following Discrete-time Bipartite Consensus on Signed Networks. , 2019, , .		0
57	Velocity Coordination of Multi-vehicle Systems via Distributed Neighbor Selection. , 2019, , .		0
58	An Accelerated Gossip-Based Distributed Gradient Method. , 2021, , .		0
59	Distributed Subgradient Algorithm for Multi-agent Optimization with Uncoordinated Dynamic Stepsizes. , 2020, , .		0
60	Finding complete minimum driver node set with guaranteed control capacity. Neurocomputing, 2022, 500, 949-964.	3.5	0
61	Inputâ€mapping based dataâ€driven model predictive control for unknown linear systems via online learning. International Journal of Robust and Nonlinear Control, 0, , .	2.1	0