

Anton A Stoorvogel

List of Publications by Year in descending order

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140
papers

1,675
citations

394421

19
h-index

330143

37
g-index

146
all docs

146
docs citations

146
times ranked

842
citing authors

#	ARTICLE	IF	CITATIONS
1	Output synchronization for heterogeneous networks of non-introspective agents. Automatica, 2012, 48, 2444-2453.	5.0	225
2	Output regulation for linear systems subject to input saturation. Automatica, 1996, 32, 29-47.	5.0	197
3	Consensus in the network with uniform constant communication delay. Automatica, 2013, 49, 2461-2467.	5.0	112
4	Output synchronization for heterogeneous networks of introspective right-invertible agents. International Journal of Robust and Nonlinear Control, 2014, 24, 1821-1844.	3.7	93
5	Synchronization in networks of minimum-phase, non-introspective agents without exchange of controller states: Homogeneous, heterogeneous, and nonlinear. Automatica, 2015, 54, 246-255.	5.0	72
6	Distributed Optimal Coordination for Distributed Energy Resources in Power Systems. IEEE Transactions on Automation Science and Engineering, 2017, 14, 414-424.	5.2	64
7	Semi-global regulation of output synchronization for heterogeneous networks of non-introspective, invertible agents subject to actuator saturation. International Journal of Robust and Nonlinear Control, 2014, 24, 548-566.	3.7	59
8	Internal and External Stabilization of Linear Systems with Constraints. Systems and Control: Foundations and Applications, 2012, , .	0.3	43
9	State synchronization of multi-agent systems via static or adaptive nonlinear dynamic protocols. Automatica, 2018, 95, 316-327.	5.0	32
10	\mathcal{H}_∞ Almost Output Synchronization for Heterogeneous Networks Without Exchange of Controller States. IEEE Transactions on Control of Network Systems, 2015, 2, 348-357.	3.7	31
11	Full and reduced-order observer-based controller design for H_2 -optimization. International Journal of Control, 1993, 58, 803-834.	1.9	27
12	On the existence of virtual exosystems for synchronized linear networks. Automatica, 2013, 49, 3145-3148.	5.0	26
13	Synchronization in a network of identical discrete-time agents with uniform constant communication delay. International Journal of Robust and Nonlinear Control, 2014, 24, 3076-3091.	3.7	25
14	Stabilization of linear system with input saturation and unknown constant delays. Automatica, 2013, 49, 3632-3640.	5.0	22
15	Synchronization in a network of identical continuous-or discrete-time agents with unknown nonuniform constant input delay. International Journal of Robust and Nonlinear Control, 2018, 28, 3959-3973.	3.7	22
16	Passivity based state synchronization of homogeneous discrete-time multi-agent systems via static protocol in the presence of input delay. European Journal of Control, 2018, 41, 16-24.	2.6	21
17	Dynamic behavior of the discrete-time double integrator with saturated locally stabilizing linear state feedback laws. International Journal of Robust and Nonlinear Control, 2013, 23, 1899-1931.	3.7	20
18	Passivity-based state synchronization of homogeneous multiagent systems via static protocol in the presence of input saturation. International Journal of Robust and Nonlinear Control, 2018, 28, 2720-2741.	3.7	20

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19	Output consensus for networks of non-identical introspective agents. , 2011, , .		19
20	The discrete-time H^∞ control problem with measurement feedback. International Journal of Robust and Nonlinear Control, 1994, 4, 457-479.	3.7	17
21	The Design of Multi-Lead-Compensators for Stabilization and Pole Placement in Double-Integrator Networks. IEEE Transactions on Automatic Control, 2010, 55, 2870-2875.	5.7	17
22	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e256" altimg="si415.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle H \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{z} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle$ almost state synchronization for homogeneous networks of non-introspective agents: A scale-free protocol design. Automatica, 2020, 122, 109276.	5.0	16
23	Consensus for multi-agent systems — Synchronization and regulation for complex networks. , 2011, , .		13
24	Synchronization for a network of identical discrete-time agents with unknown, nonuniform constant input delay. , 2015, , .		13
25	Stabilization of a Class of Sandwich Systems Via State Feedback \$ \$. IEEE Transactions on Automatic Control, 2010, 55, 2156-2160.	5.7	12
26	Control of a chain of integrators subject to actuator saturation and disturbances. International Journal of Robust and Nonlinear Control, 2012, 22, 1562-1570.	3.7	12
27	Control of open-loop neutrally stable systems subject to actuator saturation and external disturbances. International Journal of Robust and Nonlinear Control, 2013, 23, 229-240.	3.7	12
28	Synchronization in the presence of unknown, nonuniform and arbitrarily large communication delay. European Journal of Control, 2017, 38, 63-72.	2.6	12
29	Solvability conditions and design for synchronization of discrete-time multiagent systems. International Journal of Robust and Nonlinear Control, 2018, 28, 1381-1401.	3.7	12
30	Simultaneous global external and internal stabilization of linear time-invariant discrete-time systems subject to actuator saturation. Automatica, 2012, 48, 699-711.	5.0	11
31	Global regulated state synchronization for homogeneous networks of non-introspective agents in presence of input saturation: Scale-free nonlinear and linear protocol designs. Automatica, 2020, 119, 109041.	5.0	11
32	Synchronization in an homogeneous, time-varying network with nonuniform time-varying communication delays. , 2016, , .		10
33	Solvability conditions and design for state synchronization of multi-agent systems. Automatica, 2017, 84, 43-47.	5.0	10
34	Achieving Robust Average Consensus Over Lossy Wireless Networks. IEEE Transactions on Control of Network Systems, 2019, 6, 127-137.	3.7	10
35	Synchronization in networks of weakly-non-minimum-phase, non-introspective agents without exchange of controller states. , 2014, , .		9
36	Almost regulated output synchronization for heterogeneous time-varying networks of non-introspective agents and without exchange of controller states. , 2015, , .		9

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37	Stochastic String Stability of Vehicle Platoons via Cooperative Adaptive Cruise Control With Lossy Communication. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 10912-10922.	8.0	9
38	H2 and H_∞ almost disturbance decoupling problem with internal stability. International Journal of Robust and Nonlinear Control, 1996, 6, 789-803.	3.7	8
39	Solvability conditions and design for H_∞ & H2 almost state synchronization of homogeneous multi-agent systems. European Journal of Control, 2019, 46, 36-48.	2.6	8
40	Semi-global state synchronization for discrete-time multi-agent systems subject to actuator saturation and unknown nonuniform input delay. European Journal of Control, 2020, 54, 12-21.	2.6	8
41	Output and Regulated Output Synchronization of Heterogeneous Multi-agent Systems: A Scale-free Protocol Design using no Information about Communication Network and the Number of Agents. , 2020, , .		8
42	Semi-Global State Synchronization for Multi-Agent Systems Subject to Actuator Saturation and Unknown Nonuniform Input Delay. IEEE Transactions on Network Science and Engineering, 2021, 8, 488-497.	6.4	8
43	Regulated State Synchronization of Homogeneous Discrete-Time Multi-Agent Systems via Partial State Coupling in Presence of Unknown Communication Delays. IEEE Access, 2019, 7, 7021-7031.	4.2	8
44	Constrained stabilization problems for discrete-time linear plants. International Journal of Robust and Nonlinear Control, 2004, 14, 435-461.	3.7	7
45	Stabilization of nonlinear sandwich systems via state feedback "Discrete-time systems. International Journal of Robust and Nonlinear Control, 2011, 21, 1841-1864.	3.7	7
46	Decentralized control for output synchronization in heterogeneous networks of non-introspective agents. , 2012, , .		7
47	Synchronization for heterogeneous networks of introspective right-invertible agents with uniform constant communication delay. , 2013, , .		7
48	Synchronization for heterogeneous networks of weakly-non-minimum-phase, non-introspective agents without exchange of controller states. , 2016, , .		7
49	Semiglobal state synchronization for continuous-or discrete-time multiagent systems subject to actuator saturation. International Journal of Robust and Nonlinear Control, 2018, 28, 4966-4980.	3.7	7
50	Scale-Free Cooperative Control of Inverter-Based Microgrids With General Time-Varying Communication Graphs. IEEE Transactions on Power Systems, 2022, 37, 2197-2207.	6.5	7
51	Synchronization of Multi-Agent Systems in the Presence of Disturbances and Delays. Systems and Control: Foundations and Applications, 2022, , .	0.3	7
52	The design of multi-lead-compensators for stabilization and pole placement in double-integrator networks under saturation. , 2009, , .		6
53	Discrete-time H_2 and H_∞ low-gain theory. International Journal of Robust and Nonlinear Control, 2012, 22, 743-762.	3.7	6
54	Stabilization of Discrete-Time Linear Systems Subject to Input Saturation and Multiple Unknown Constant Delays. IEEE Transactions on Automatic Control, 2014, 59, 1667-1672.	5.7	6

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55	Synchronization in time-varying networks of non-introspective agents without exchange of controller states. , 2014, , .		6
56	Necessary and Sufficient Conditions for Global External Stochastic Stabilization of Linear Systems With Input Saturation. IEEE Transactions on Automatic Control, 2016, 61, 1368-1372.	5.7	6
57	H_2 and H_∞ almost output synchronization of heterogeneous continuous-time multi-agent systems with passive agents and partial-state coupling via static protocol. International Journal of Robust and Nonlinear Control, 2019, 29, 6244-6255.	3.7	6
58	Output synchronization for heterogeneous networks of discrete-time introspective right-invertible agents with uniform constant communication delay. , 2013, , .		5
59	Consensus in the network with nonuniform constant input delay. , 2015, , .		5
60	Stochastic almost regulated output synchronization for heterogeneous time-varying networks with non-introspective agents and without exchange of controller states. , 2015, , .		5
61	Synchronization for heterogeneous time-varying networks with non-introspective, non-minimum-phase agents in the presence of external disturbances with known frequencies. , 2016, , .		5
62	Almost output synchronization for heterogeneous time-varying networks for a class of non-introspective, nonlinear agents without exchange of controller states. International Journal of Robust and Nonlinear Control, 2016, 26, 3883-3899.	3.7	5
63	Squared-down passivity-based state synchronization of homogeneous continuous-time multiagent systems via static protocol in the presence of time-varying topology. International Journal of Robust and Nonlinear Control, 2019, 29, 3821-3840.	3.7	5
64	Computation of the recoverable region and stabilisation problem in the recoverable region for discrete-time systems. International Journal of Control, 2009, 82, 1870-1881.	1.9	4
65	Semi-global stabilization of discrete-time systems subject to non-right invertible constraints. International Journal of Robust and Nonlinear Control, 2010, 20, 1234-1254.	3.7	4
66	Decentralized control of discrete-time linear time invariant systems with input saturation. International Journal of Robust and Nonlinear Control, 2010, 20, 1353-1362.	3.7	4
67	Stabilization of sandwich non-linear systems with low-and-high gain feedback design. , 2010, , .		4
68	Control of linear systems with input saturation and matched uncertainty and disturbance. , 2011, , .		4
69	Synchronization in networks of nonlinear, non-introspective, minimum-phase agents without exchange of controller states. , 2014, , .		4
70	Delayed state synchronization of continuous-time multi-agent systems in the presence of unknown communication delays. , 2019, , .		4
71	Regulated State Synchronization for Homogeneous Networks of Non-introspective Agents in Presence of Input Delays: A Scale-Free Protocol Design. , 2020, , .		4
72	A class of neutral-type delay differential equations that are effectively retarded. , 2009, , .		3

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73	A Class of Neutral-Type Delay Differential Equations That are Effectively Retarded. IEEE Transactions on Automatic Control, 2010, 55, 435-440.	5.7	3
74	Consensus in the network with uniform constant communication delay. , 2012, , .		3
75	Further results on saturated globally stabilizing linear state feedback control laws for single-input neutrally stable planar systems. , 2013, , .		3
76	Regulated output synchronization for heterogeneous time-varying networks with non-introspective agents in presence of disturbance and measurement noise with known frequencies. , 2015, , .		3
77	Delayed state synchronization of homogeneous discrete-time multi-agent systems in the presence of unknown communication delays. , 2019, , .		3
78	Scale-free protocol design for regulated state synchronization of homogeneous multi-agent systems with unknown and non-uniform input delays. Systems and Control Letters, 2021, 152, 104927.	2.3	3
79	Feedback model predictive control by randomized algorithms. , 2001, , .		3
80	Scale-free collaborative protocols for global regulated state synchronization of discrete-time homogeneous networks of non-introspective agents in presence of input saturation. International Journal of Robust and Nonlinear Control, 2022, 32, 5247-5267.	3.7	3
81	Scale-Free Collaborative Protocol Design for Output Synchronization of Heterogeneous Multi-Agent Systems With Nonuniform Communication Delays. IEEE Transactions on Network Science and Engineering, 2022, 9, 2882-2894.	6.4	3
82	Stabilization of a class of sandwich nonlinear systems via state feedback. , 2009, , .		2
83	Semiglobal stabilization of sandwich systems by dynamic output feedback. , 2010, , .		2
84	Control of linear systems with input saturation and non-input-additive sustained disturbances — Continuous-time systems. , 2012, , .		2
85	Semi-global regulation of output synchronization for heterogeneous networks of non-introspective, invertible agents subject to actuator saturation. , 2012, , .		2
86	Regulated output synchronization for heterogeneous networks of non-introspective, minimum-phase SISO agents without exchange of controller states. , 2013, , .		2
87	Almost regulated output synchronization for heterogeneous time-varying networks of non-introspective, nonlinear agents without exchange of controller states. , 2015, , .		2
88	State synchronization of homogeneous continuous-time multi-agent systems with time-varying communication topology in presence of input delay. , 2017, , .		2
89	Using a linear gain to accelerate average consensus over unreliable networks. , 2017, , .		2
90	Squared-down passivity based \mathcal{H}^∞ almost synchronization of homogeneous continuous-time multi-agent systems with partial-state coupling via static protocol. , 2018, , .		2

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91	Global and Semi-global Regulated State Synchronization for Homogeneous Networks of Non-introspective Agents in Presence of Input Saturation- A Scale-free Protocol Design. , 2019, , .		2
92	Semi-global state synchronization for multi-agent systems subject to actuator saturation and unknown nonuniform input delay. , 2020, , .		2
93	Scale-free collaborative protocol design for state and regulated state synchronization of multi-agent systems with arbitrary fast convergence. Journal of the Franklin Institute, 2021, 358, 4864-4882.	3.4	2
94	H_∞ and H_2 almost output and regulated output synchronization of heterogeneous multi-agent systems: A scale-free protocol design. Journal of the Franklin Institute, 2021, 358, 9841-9841.	3.4	2
95	Stochastic Almost Output Synchronization for Time-Varying Networks of Nonidentical and Non-introspective Agents Under External Stochastic Disturbances and Disturbances with Known Frequencies. Lecture Notes in Control and Information Sciences, 2015, , 101-127.	1.0	2
96	Scale-free Linear Observer-based Protocol Design for Global Regulated State Synchronization of Homogeneous Multi-agent Systems with Non-introspective Agents Subject to Input Saturation. , 2020, , .		2
97	Regulated State Synchronization for Discrete-time Homogeneous Networks of Non-introspective Agents in Presence of Unknown Non-uniform Input Delays: A Scale-free Protocol Design. , 2020, , .		2
98	Analysis, design, and performance limitations of H_∞ optimal filtering in the presence of an additional input with known frequency. International Journal of Robust and Nonlinear Control, 2007, 17, 1474-1488.	3.7	1
99	On external semi-global stochastic stabilization of a double integrator with input saturation. , 2008, , .		1
100	Decentralized control of discrete-time linear time invariant systems with input saturation. , 2009, , .		1
101	H_∞ and H_2 and H_∞ and H_2 low-gain theory. , 2011, , .		1
102	Remarks on the relationship between H_∞ stability and internal stability of nonlinear systems. , 2011, , .		1
103	Consensus in the network with uniform constant communication delay. , 2012, , .		1
104	Output synchronization for heterogeneous networks of non-introspective, non-right-invertible agents. , 2013, , .		1
105	Synchronization for homogeneous networks of non-introspective, non-right-invertible, discrete-time agents with uniform constant communication delay. , 2013, , .		1
106	State synchronization in the presence of unknown, nonuniform and arbitrary large communication delays. , 2016, , .		1
107	State synchronization of linear and nonlinear agents in time-varying networks. International Journal of Robust and Nonlinear Control, 2017, 27, 3758-3776.	3.7	1
108	Solvability conditions and design for state synchronization of multi-agent systems. , 2017, , .		1

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109	Passivity based delayed state synchronization of discrete-time multi-agent systems in presence of unknown communication delays. , 2018, , .		1
110	Scale-free protocol design for delayed regulated synchronization of multi-agent systems subject to unknown, nonuniform, and arbitrarily large communication delays. International Journal of Robust and Nonlinear Control, 2021, 31, 6369-6391.	3.7	1
111	Scale-free Design for Delayed Regulated Synchronization of Discrete-time Heterogeneous Multi-agent Systems subject to Unknown Non-uniform and Arbitrarily Large Communication Delays. , 2021, , .		1
112	H2 Almost State Synchronization of Homogeneous Multi-agent Systems – A Scale-free Design. , 2021, , .		1
113	Scale-free Protocol Design for H_∞ Almost Output and Regulated Output Synchronization of Heterogeneous Multi-agent Systems. , 2021, , .		1
114	On multiple-delay approximations of multiple-derivative controllers. , 2009, , .		1
115	Scale-free Protocol Design for Output Synchronization of Heterogeneous Multi-agent subject to Unknown, Non-uniform and Arbitrarily Large Input Delays. , 2020, , .		1
116	Time varying controllers in discrete-time decentralized control. , 2009, , .		0
117	Call for Papers: “Design Paradigms for Modern Dynamical Networks”™. International Journal of Robust and Nonlinear Control, 2009, 19, 1972-1972.	3.7	0
118	Global stabilization of the discrete-time double integrator using a saturated linear state feedback controller. , 2011, , .		0
119	Simultaneous global external and internal stabilization of linear time-invariant discrete-time systems subject to actuator saturation. , 2011, , .		0
120	Control of linear systems with input saturation and non-input-additive sustained disturbances — Discrete-time systems. , 2012, , .		0
121	Remarks on the relationship between stability and internal stability of nonlinear systems. International Journal of Robust and Nonlinear Control, 2013, 23, 1822-1827.	3.7	0
122	Stabilization of discrete-time linear systems subject to input saturation and multiple unknown constant delays. , 2013, , .		0
123	H_∞ almost output synchronization for heterogeneous networks in the presence of external disturbances without exchange of controller states. , 2014, , .		0
124	Solvability condition for synchronization of discrete-time multi-agent systems and design. , 2017, , .		0
125	H_∞ and H_2 almost state synchronization with full-state coupling for homogeneous multi-agent systems. , 2017, , .		0
126	Passivity based state synchronization of homogeneous discrete-time multi-agent systems via static protocol in presence of input delay. , 2018, , .		0

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127	Leaderless state synchronization of homogeneous multi-agent systems via a universal adaptive nonlinear dynamic protocol. , 2018, , .		0
128	Passivity based state synchronization of multi-agent systems via static or adaptive nonlinear dynamic protocols. , 2018, , .		0
129	Semi-global state synchronization for continuous or discrete-time multi-agent systems subject to actuator saturation. , 2018, , .		0
130	Passivity based state synchronization of homogeneous multi-agent systems via static protocol in presence of input saturation. , 2018, , .		0
131	Regulated state synchronization of homogeneous multiagent systems with partial state coupling via low-gain adaptive protocol. International Journal of Robust and Nonlinear Control, 2019, 29, 3518-3528.	3.7	0
132	H2 almost output synchronization of heterogeneous continuous-time multi-agent systems with passive agents and partial state coupling via static protocol. , 2019, , .		0
133	Distributed Cooperative Voltage Control of Multiterminal High-Voltage DC Systems. IEEE Systems Journal, 2022, 16, 176-184.	4.6	0
134	Synchronization for Homogeneous and Heterogeneous Discrete-time Multi-agent Systems: A Scale-free Protocol Design. , 2020, , .		0
135	Scale-free State Synchronization of Discrete-time Multi-agent Systems in Presence of Nonuniform Communication Delays. , 2021, , .		0
136	Synchronization of Discrete-Time Linear MAS. Systems and Control: Foundations and Applications, 2022, , 91-148.	0.3	0
137	Regulated Output Synchronization of Heterogeneous Continuous-Time Linear MAS. Systems and Control: Foundations and Applications, 2022, , 489-514.	0.3	0
138	Necessary Conditions for Synchronization of Heterogeneous MAS. Systems and Control: Foundations and Applications, 2022, , 481-488.	0.3	0
139	H ∞ and H 2 Almost Synchronization of Continuous-Time Linear MAS. Systems and Control: Foundations and Applications, 2022, , 433-477.	0.3	0
140	Scale-free Collaborative Protocol Design for State Synchronization of Multi-agent Systems in Presence of Unknown Nonuniform and Arbitrarily Large Communication Delays. European Journal of Control, 2022, , 100660.	2.6	0