Wei Ren

List of Publications by Citations

274 papers	**28,456** citations	**75** h-index	**167** g-index
297 ext. papers	**35,865** ext. citations	**4.4** avg, IF	**8.03** L-index

#	Paper	IF	Citations
274	Consensus seeking in multiagent systems under dynamically changing interaction topologies. *IEEE Transactions on Automatic Control*, **2005**, 50, 655-661	5.9	4017
273	Information consensus in multivehicle cooperative control. *IEEE Control Systems*, **2007**, 27, 71-82	2.9	1925
272	An Overview of Recent Progress in the Study of Distributed Multi-Agent Coordination. *IEEE Transactions on Industrial Informatics*, **2013**, 9, 427-438	11.9	1279
271	Distributed Consensus in Multi-vehicle Cooperative Control. *Communications and Control Engineering*, **2008**,	0.6	1193
270	Distributed multi-vehicle coordinated control via local information exchange. *International Journal of Robust and Nonlinear Control*, **2007**, 17, 1002-1033	3.6	934
269	On Consensus Algorithms for Double-Integrator Dynamics. *IEEE Transactions on Automatic Control*, **2008**, 53, 1503-1509	5.9	921
268	Distributed finite-time attitude containment control for multiple rigid bodies. *Automatica*, **2010**, 46, 2092-2099	5.7	603
267	Consensus strategies for cooperative control of vehicle formations. *IET Control Theory and Applications*, **2007**, 1, 505-512	2.5	560
266	Multi-vehicle consensus with a time-varying reference state. *Systems and Control Letters*, **2007**, 56, 474-483	3.1	511
265	Designing Fully Distributed Consensus Protocols for Linear Multi-Agent Systems With Directed Graphs. *IEEE Transactions on Automatic Control*, **2015**, 60, 1152-1157	5.9	509
264	Consensus of Multi-Agent Systems With General Linear and Lipschitz Nonlinear Dynamics Using Distributed Adaptive Protocols. *IEEE Transactions on Automatic Control*, **2013**, 58, 1786-1791	5.9	487
263	Distributed Coordination of Multi-agent Networks. *Communications and Control Engineering*, **2011**,	0.6	409
262	Decentralized Scheme for Spacecraft Formation Flying via the Virtual Structure Approach. *Journal of Guidance, Control, and Dynamics*, **2004**, 27, 73-82	2.1	403
261	Distributed containment control for Lagrangian networks with parametric uncertainties under a directed graph. *Automatica*, **2012**, 48, 653-659	5.7	389
260	Distributed consensus of linear multi-agent systems with adaptive dynamic protocols. *Automatica*, **2013**, 49, 1986-1995	5.7	386
259	Distributed containment control with multiple stationary or dynamic leaders in fixed and switching directed networks. *Automatica*, **2012**, 48, 1586-1597	5.7	353
258	Second-order consensus in multi-agent dynamical systems with sampled position data. *Automatica*, **2011**, 47, 1496-1503	5.7	348

257	Distributed Coordinated Tracking With Reduced Interaction via a Variable Structure Approach. *IEEE Transactions on Automatic Control*, **2012**, 57, 33-48	5.9	344
256	Distributed coordination architecture for multi-robot formation control. *Robotics and Autonomous Systems*, **2008**, 56, 324-333	3.5	341
255	Distributed Containment Control for Multiple Autonomous Vehicles With Double-Integrator Dynamics: Algorithms and Experiments. *IEEE Transactions on Control Systems Technology*, **2011**, 19, 929-938	4.8	339
254	Distributed containment control of multi-agent systems with general linear dynamics in the presence of multiple leaders. *International Journal of Robust and Nonlinear Control*, **2013**, 23, 534-547	3.6	332
253	Distributed leaderless consensus algorithms for networked Euler─Lagrange systems. *International Journal of Control*, **2009**, 82, 2137-2149	1.5	325
252	Distributed Tracking Control for Linear Multiagent Systems With a Leader of Bounded Unknown Input. *IEEE Transactions on Automatic Control*, **2013**, 58, 518-523	5.9	319
251	Distributed Coordinated Tracking With a Dynamic Leader for Multiple Euler-Lagrange Systems. *IEEE Transactions on Automatic Control*, **2011**, 56, 1415-1421	5.9	291
250	Leaderless and leader-following consensus with communication and input delays under a directed network topology. *IEEE Transactions on Systems, Man, and Cybernetics*, **2011**, 41, 75-88		288
249	Decentralized finite-time sliding mode estimators and their applications in decentralized finite-time formation tracking. *Systems and Control Letters*, **2010**, 59, 522-529	2.4	277
248	High-Order and Model Reference Consensus Algorithms in Cooperative Control of MultiVehicle Systems. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2007**, 129, 678-688	1.6	276
247	Distributed control gains design for consensus in multi-agent systems with second-order nonlinear dynamics. *Automatica*, **2013**, 49, 2107-2115	5.7	274
246	Decentralized event-triggered consensus for linear multi-agent systems under general directed graphs. *Automatica*, **2016**, 69, 242-249	5.7	262
245	Distributed Cooperative Attitude Synchronization and Tracking for Multiple Rigid Bodies. *IEEE Transactions on Control Systems Technology*, **2010**, 18, 383-392	4.8	247
244	Adaptive Consensus of Multi-Agent Systems With Unknown Identical Control Directions Based on A Novel Nussbaum-Type Function. *IEEE Transactions on Automatic Control*, **2014**, 59, 1887-1892	5.9	223
243	Distributed Higher Order Consensus Protocols in Multiagent Dynamical Systems. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2011**, 58, 1924-1932	3.9	210
242	Distributed Containment Control with Multiple Dynamic Leaders for Double-Integrator Dynamics Using Only Position Measurements. *IEEE Transactions on Automatic Control*, **2012**, 57, 1553-1559	5.9	203
241	Synchronization of coupled harmonic oscillators with local interaction. *Automatica*, **2008**, 44, 3195-3200	5.7	202
240	Distributed Consensus of Second-Order Multi-Agent Systems With Heterogeneous Unknown Inertias and Control Gains Under a Directed Graph. *IEEE Transactions on Automatic Control*, **2016**, 61, 2019-2034	5.9	194

239	Distributed coordination of networked fractional-order systems. *IEEE Transactions on Systems, Man, and Cybernetics*, **2010**, 40, 362-70		190
238	Optimal linear-consensus algorithms: an LQR perspective. *IEEE Transactions on Systems, Man, and Cybernetics*, **2010**, 40, 819-30		188
237	Distributed attitude alignment in spacecraft formation flying. *International Journal of Adaptive Control and Signal Processing*, **2007**, 21, 95-113	2.8	186
236	Multi-vehicle coordination for double-integrator dynamics under fixed undirected/directed interaction in a sampled-data setting. *International Journal of Robust and Nonlinear Control*, **2010**, 20, 987-1000	3.6	181
235	Distributed Continuous-Time Optimization: Nonuniform Gradient Gains, Finite-Time Convergence, and Convex Constraint Set. *IEEE Transactions on Automatic Control*, **2017**, 62, 2239-2253	5.9	168
234	Distributed consensus of multi-agent systems with general linear node dynamics and intermittent communications. *International Journal of Robust and Nonlinear Control*, **2014**, 24, 2438-2457	3.6	168
233	Formation Keeping and Attitude Alignment for Multiple Spacecraft Through Local Interactions. *Journal of Guidance, Control, and Dynamics*, **2007**, 30, 633-638	2.1	165
232	Trajectory tracking for unmanned air vehicles with velocity and heading rate constraints. *IEEE Transactions on Control Systems Technology*, **2004**, 12, 706-716	4.8	164
231	Consensus of linear multi-agent systems with reduced-order observer-based protocols. *Systems and Control Letters*, **2011**, 60, 510-516	2.4	156
230	Distributed coordination for second-order multi-agent systems with nonlinear dynamics using only relative position measurements. *Automatica*, **2013**, 49, 1419-1427	5.7	146
229	Consensus Tracking Under Directed Interaction Topologies: Algorithms and Experiments. *IEEE Transactions on Control Systems Technology*, **2010**, 18, 230-237	4.8	141
228	Coordination Variables and Consensus Building in Multiple Vehicle Systems. *Lecture Notes in Control and Information Sciences*, **2004**, 171-188	0.5	140
227	Distributed Average Tracking of Multiple Time-Varying Reference Signals With Bounded Derivatives. *IEEE Transactions on Automatic Control*, **2012**, 57, 3169-3174	5.9	137
226	Distributed multi-agent optimization subject to nonidentical constraints and communication delays. *Automatica*, **2016**, 65, 120-131	5.7	130
225	Distributed discrete-time coordinated tracking with a time-varying reference state and limited communication. *Automatica*, **2009**, 45, 1299-1305	5.7	127
224	Finite-time consensus for multi-agent networks with unknown inherent nonlinear dynamics. *Automatica*, **2014**, 50, 2648-2656	5.7	126
223	Distributed adaptive coordination for multiple Lagrangian systems under a directed graph without using neighbors velocity information. *Automatica*, **2013**, 49, 1723-1731	5.7	124
222	Constrained Consensus in Unbalanced Networks With Communication Delays. *IEEE Transactions on Automatic Control*, **2014**, 59, 775-781	5.9	121

221	Distributed formation control for fractional-order systems: Dynamic interaction and absolute/relative damping. *Systems and Control Letters*, **2010**, 59, 233-240	2.4	115
220	Consensus for multi-agent systems with inherent nonlinear dynamics under directed topologies. *Systems and Control Letters*, **2013**, 62, 152-162	2.4	114
219	Event-triggered zero-gradient-sum distributed consensus optimization over directed networks. *Automatica*, **2016**, 65, 90-97	5.7	110
218	Robust cooperative tracking for multiple non-identical second-order nonlinear systems. *Automatica*, **2013**, 49, 2363-2372	5.7	110
217	Distributed Continuous-Time Convex Optimization With Time-Varying Cost Functions. *IEEE Transactions on Automatic Control*, **2017**, 62, 1590-1605	5.9	110
216	Sampled-data discrete-time coordination algorithms for double-integrator dynamics under dynamic directed interaction. *International Journal of Control*, **2010**, 83, 506-515	1.5	110
215	Containment Control of Multiagent Systems With Dynamic Leaders Based on a PI^{n} -Type Approach. *IEEE Transactions on Cybernetics*, **2016**, 46, 3004-3017	10.2	106
214	Seeking Consensus in Networks of Linear Agents: Communication Noises and Markovian Switching Topologies. *IEEE Transactions on Automatic Control*, **2015**, 60, 1374-1379	5.9	104
213	Containment control of linear multi-agent systems with multiple leaders of bounded inputs using distributed continuous controllers. *International Journal of Robust and Nonlinear Control*, **2015**, 25, 2101-2121	3.6	103
212	Leader–follower consensus of linear multi-agent systems with unknown external disturbances. *Systems and Control Letters*, **2015**, 82, 64-70	2.4	101
211	Distributed Velocity-Constrained Consensus of Discrete-Time Multi-Agent Systems With Nonconvex Constraints, Switching Topologies, and Delays. *IEEE Transactions on Automatic Control*, **2017**, 62, 5788-5794	5.9	100
210	Designing Distributed Specified-Time Consensus Protocols for Linear Multiagent Systems Over Directed Graphs. *IEEE Transactions on Automatic Control*, **2019**, 64, 2945-2952	5.9	99
209	Distributed Containment Control for Multiple Unknown Second-Order Nonlinear Systems With Application to Networked Lagrangian Systems. *IEEE Transactions on Neural Networks and Learning Systems*, **2015**, 26, 1885-99	10.3	98
208	Fully distributed flocking with a moving leader for Lagrange networks with parametric uncertainties. *Automatica*, **2016**, 67, 67-76	5.7	98
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206	Leader–follower swarm tracking for networked Lagrange systems. *Systems and Control Letters*, **2012**, 61, 117-126	2.4	88
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204	On Convergence Rate of Leader-Following Consensus of Linear Multi-Agent Systems With Communication Noises. *IEEE Transactions on Automatic Control*, **2016**, 61, 3586-3592	5.9	85

203	Collective Motion From Consensus With Cartesian Coordinate Coupling. *IEEE Transactions on Automatic Control*, **2009**, 54, 1330-1335	5.9	85
202	Delay-Induced Consensus and Quasi-Consensus in Multi-Agent Dynamical Systems. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2013**, 60, 2679-2687	3.9	84
201	Platooning of Connected Vehicles With Undirected Topologies: Robustness Analysis and Distributed H-infinity Controller Synthesis. *IEEE Transactions on Intelligent Transportation Systems*, **2018**, 19, 1353-1364	6.1	79
200	Second-order Consensus Protocols in Multiple Vehicle Systems with Local Interactions **2005**,		76
199	Reducing time headway for platooning of connected vehicles via V2V communication. *Transportation Research Part C: Emerging Technologies*, **2019**, 102, 87-105	8.4	74
198	Distributed Average Tracking of Networked Euler-Lagrange Systems. *IEEE Transactions on Automatic Control*, **2015**, 60, 547-552	5.9	70
197	Distributed Consensus of Second-Order Multiagent Systems With Nonconvex Velocity and Control Input Constraints. *IEEE Transactions on Automatic Control*, **2018**, 63, 1171-1176	5.9	69
196	Cooperative control of linear multi-agent systems via distributed output regulation and transient synchronization. *Automatica*, **2016**, 68, 132-139	5.7	64
195	Virtual Structure Based Spacecraft Formation Control with Formation Feedback **2002**,		63
194	Experimental Validation of Consensus Algorithms for Multivehicle Cooperative Control. *IEEE Transactions on Control Systems Technology*, **2008**, 16, 745-752	4.8	58
193	Finite-Time Connectivity-Preserving Consensus of Networked Nonlinear Agents With Unknown Lipschitz Terms. *IEEE Transactions on Automatic Control*, **2016**, 61, 1700-1705	5.9	56
192	Distributed discrete-time coupled harmonic oscillators with application to synchronised motion coordination. *IET Control Theory and Applications*, **2010**, 4, 806-816	2.5	56
191	Robustness Analysis of Asynchronous Sampled-Data Multiagent Networks With Time-Varying Delays. *IEEE Transactions on Automatic Control*, **2018**, 63, 2145-2152	5.9	55
190	Second-order Consensus Algorithm with Extensions to Switching Topologies and Reference Models. *Proceedings of the American Control Conference*, **2007**,	1.2	53
189	Distributed Average Tracking for Reference Signals With Bounded Accelerations. *IEEE Transactions on Automatic Control*, **2015**, 60, 863-869	5.9	52
188	Surrounding control in cooperative agent networks. *Systems and Control Letters*, **2010**, 59, 704-712	2.4	52
187	Consensus based formation control strategies for multi-vehicle systems **2006**,		52
186	Necessary and Sufficient Conditions for Consensus of Second-Order Multiagent Systems Under Directed Topologies Without Global Gain Dependency. *IEEE Transactions on Cybernetics*, **2017**, 47, 2089-2098	10.2	50

185	Multi-agent Kalman consensus with relative uncertainty		49
184	Distributed Optimization With Nonconvex Velocity Constraints, Nonuniform Position Constraints, and Nonuniform Stepsizes. *IEEE Transactions on Automatic Control*, **2019**, 64, 2575-2582	5.9	49
183	. *IEEE Transactions on Control Systems Technology*, **2018**, 26, 1300-1316	4.8	47
182	Continuous-Time Distributed Subgradient Algorithm for Convex Optimization With General Constraints. *IEEE Transactions on Automatic Control*, **2019**, 64, 1694-1701	5.9	47
181	Collective rotating motions of second-order multi-agent systems in three-dimensional space. *Systems and Control Letters*, **2011**, 60, 365-372	2.4	47
180	Autonomous indoor aerial gripping using a quadrotor		46
179	Decentralised cooperative attitude tracking using modified Rodriguez parameters based on relative attitude information. *International Journal of Control*, **2010**, 83, 2427-2439	1.5	45
178	Distributed discrete-time coordinated tracking with Markovian switching topologies. *Systems and Control Letters*, **2012**, 61, 766-772	2.4	44
177	Advances in Network Controllability. *IEEE Circuits and Systems Magazine*, **2019**, 19, 8-32	3.2	42
176	Distributed Coordination of Multiple Unknown Euler-Lagrange Systems. *IEEE Transactions on Control of Network Systems*, **2018**, 5, 55-66	4	42
175	Multi-Agent Consensus Using Both Current and Outdated States with Fixed and Undirected Interaction. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2010**, 58, 95-106	2.9	42
174	Band-reconfigurable Multi-UAV-based Cooperative Remote Sensing for Real-time Water Management and Distributed Irrigation Control. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 11744-11749		42
173	Finite-Time Consensus for Linear Multiagent Systems via Event-Triggered Strategy Without Continuous Communication. *IEEE Transactions on Control of Network Systems*, **2020**, 7, 19-29	4	41
172	Consensus algorithms are input-to-state stable		40
171	Cooperation of Multiple Connected Vehicles at Unsignalized Intersections: Distributed Observation, Optimization, and Control. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 10744-10754	8.9	40
170	A Connection Between Dynamic Region-Following Formation Control and Distributed Average Tracking. *IEEE Transactions on Cybernetics*, **2018**, 48, 1760-1772	10.2	38
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168	Distributed Continuous-Time and Discrete-Time Optimization With Nonuniform Unbounded Convex Constraint Sets and Nonuniform Stepsizes. *IEEE Transactions on Automatic Control*, **2019**, 64, 5148-5155	5.9	37

167	Convergence of sampled-data consensus algorithms for double-integrator dynamics **2008**,		35
166	Autonomous Vehicle Technologies for Small Fixed Wing UAVs **2003**,		35
165	On the Control of Multi-Agent Systems: A Survey. *Foundations and Trends in Systems and Control*, **2019**, 6, 339-499	4	33
164	Fully distributed adaptive sliding-mode controller design for containment control of multiple Lagrangian systems. *Systems and Control Letters*, **2014**, 72, 44-52	2.4	33
163	Edge-Based Finite-Time Protocol Analysis With Final Consensus Value and Settling Time Estimations. *IEEE Transactions on Cybernetics*, **2020**, 50, 1450-1459	10.2	33
162	High-Order Consensus Algorithms in Cooperative Vehicle Systems		32
161	Continuous-Time Coordination Algorithm for Distributed Convex Optimization Over Weight-Unbalanced Directed Networks. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2019**, 66, 1202-1206	3.5	32
160	Distributed average tracking for double-integrator multi-agent systems with reduced requirement on velocity measurements. *Automatica*, **2017**, 81, 1-7	5.7	30
159	Use of neural fuzzy networks with mixed genetic/gradient algorithm in automated vehicle control. *IEEE Transactions on Industrial Electronics*, **1999**, 46, 1090-1102	8.9	30
158	Synchronization of Coupled Dynamical Systems: Tolerance to Weak Connectivity and Arbitrarily Bounded Time-Varying Delays. *IEEE Transactions on Automatic Control*, **2018**, 63, 1791-1797	5.9	29
157	Distributed Resource Allocation Over Directed Graphs via Continuous-Time Algorithms. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 1097-1106	7.3	29
156	Distributed H∞ constrained consensus problem. *Systems and Control Letters*, **2017**, 104, 45-48	2.4	28
155	On Constrained Nonlinear Tracking Control of a Small Fixed-wing UAV. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2007**, 48, 525-537	2.9	27
154	Containment Control for Discrete-Time Multiagent Systems With Communication Delays and Switching Topologies. *IEEE Transactions on Cybernetics*, **2019**, 49, 3827-3830	10.2	27
153	Distributed Energy Resource Coordination Over Time-Varying Directed Communication Networks. *IEEE Transactions on Control of Network Systems*, **2019**, 6, 1124-1134	4	26
152	Consensus Seeking in Multi-vehicle Systems with a Time-varying Reference State. *Proceedings of the American Control Conference*, **2007**,	1.2	26
151	Practical output synchronization for asynchronously switched multi-agent systems with adaption to fast-switching perturbations. *Automatica*, **2020**, 116, 108917	5.7	25
150	H∞ Output Consensus for Markov Jump Multiagent Systems With Uncertainties. *IEEE Transactions on Cybernetics*, **2018**,	10.2	25

149	Differentially Private Consensus With an Event-Triggered Mechanism. *IEEE Transactions on Control of Network Systems*, **2019**, 6, 60-71	4	24
148	Observer-Based Consensus for Multiagent Systems Under Stochastic Sampling Mechanism. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 2328-2338	7.3	23
147	Distributed Adaptive Finite-Time Approach for Formation-Containment Control of Networked Nonlinear Systems Under Directed Topology. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 3164-3175	10.3	23
146	Distributed coordination algorithms for multiple fractional-order systems **2008**,		23
145	Nonlinear Trajectory Tracking for Fixed Wing UAVs via Backstepping and Parameter Adaptation **2005**,		23
144	Distributed Average Tracking of Physical Second-Order Agents With Heterogeneous Unknown Nonlinear Dynamics Without Constraint on Input Signals. *IEEE Transactions on Automatic Control*, **2019**, 64, 1178-1184	5.9	22
143	Consensus of second-order heterogeneous multi-agent systems under a directed graph **2014**,		22
142	Distributed Consensus Algorithms and Their Applications in Multi-vehicle Cooperative Control **2007**,		22
141	Fractional Horsepower Dynamometer - A General Purpose Hardware-In-The-Loop Real-Time Simulation Platform for Nonlinear Control Research and Education **2006**,		22
140	Stability and convergence analysis of multi-agent consensus with information reuse. *International Journal of Control*, **2010**, 83, 1081-1092	1.5	21
139	On consensus algorithms for double-integrator dynamics **2007**,		21
138	Consensus of information under dynamically changing interaction topologies **2004**,		21
137	Distributed Containment Control of Continuous-Time Multiagent Systems With Nonconvex Control Input Constraints. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 7927-7934	8.9	21
136	Solving a system of linear equations: From centralized to distributed algorithms. *Annual Reviews in Control*, **2019**, 47, 306-322	10.3	20
135	Autonomous indoor aerial gripping using a quadrotor **2011**,		20
134	Distributed Adaptive Finite-Time Consensus for Second-Order Multiagent Systems With Mismatched Disturbances Under Directed Networks. *IEEE Transactions on Cybernetics*, **2021**, 51, 1347-1358	10.2	20
133	Distributed Subgradient-Based Multiagent Optimization With More General Step Sizes. *IEEE Transactions on Automatic Control*, **2018**, 63, 2295-2302	5.9	20
132	Consensus of multi-agent systems with fixed inner connections. *International Journal of Robust and Nonlinear Control*, **2018**, 28, 154-173	3.6	19

131	Distributed Time-Varying Convex Optimization for a Class of Nonlinear Multiagent Systems. *IEEE Transactions on Automatic Control*, **2020**, 65, 801-808	5.9	19
130	Trajectory tracking control for a miniature fixed-wing unmanned air vehicle. *International Journal of Systems Science*, **2007**, 38, 361-368	2.3	18
129	Finite-time consensus for second-order multi-agent networks with inherent nonlinear dynamics under an undirected fixed graph **2011**,		17
128	Decentralization of Virtual Structures in Formation Control of Multiple Vehicle Systems via Consensus Strategies. *European Journal of Control*, **2008**, 14, 93-103	2.5	17
127	Passive Separation Approach to Adaptive Visual Tracking for Robotic Systems. *IEEE Transactions on Control Systems Technology*, **2018**, 26, 2232-2241	4.8	16
126	Distributed Kalman-Bucy Filter With Embedded Dynamic Averaging Algorithm. *IEEE Systems Journal*, **2018**, 12, 1722-1730	4.3	16
125	Distributed optimization with the consideration of adaptivity and finite-time convergence **2014**,		16
124	Decentralized consensus for linear multi-agent systems under general directed graphs based on event-triggered/self-triggered strategy **2014**,		16
123	Collective motion from consensus with Cartesian coordinate coupling - Part I: Single-integrator kinematics **2008**,		16
122	Distributed Algorithm to Solve a System of Linear Equations With Unique or Multiple Solutions From Arbitrary Initializations. *IEEE Transactions on Control of Network Systems*, **2019**, 6, 82-93	4	16
121	Distributed Coverage Control of Mobile Sensor Networks in Unknown Environment Using Game Theory: Algorithms and Experiments. *IEEE Transactions on Mobile Computing*, **2018**, 17, 1303-1313	4.6	15
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119	On the consistency and confidence of distributed dynamic state estimation in wireless sensor networks **2015**,		15
118	Design of Distributed Event-Triggered Average Tracking Algorithms for Homogeneous and Heterogeneous Multi-Agent Systems. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	15
117	Distributed rotating consensus of second-order multi-agent systems with nonuniform delays. *Systems and Control Letters*, **2018**, 117, 18-22	2.4	15
116	Multi-leader multi-follower coordination with cohesion, dispersion, and containment control via proximity graphs. *Science China Information Sciences*, **2017**, 60, 1	3.4	14
115	Experiments in Consensus-based Distributed Cooperative Control of Multiple Mobile Robots **2007**,		14
114	A Unified Formation Control Scheme with a Single or Multiple Leaders. *Proceedings of the American Control Conference*, **2007**,	1.2	14

113	Experimental validation of an autonomous control system on a mobile robot platform. *IET Control Theory and Applications*, **2007**, 1, 1621-1629	2.5	14
112	. *IEEE Systems Journal*, **2018**, 12, 2428-2436	4.3	13
111	Blind carrier phase tracking with guaranteed global convergence. *IEEE Transactions on Signal Processing*, **1997**, 45, 1889-1894	4.8	13
110	Distributed attitude consensus among multiple networked spacecraft **2006**,		13
109	A decentralized scheme for spacecraft formation flying via the virtual structure approach		13
108	Sign projected gradient flow: A continuous-time approach to convex optimization with linear equality constraints. *Automatica*, **2020**, 120, 109156	5.7	13
107	Distributed containment control for first-order and second-order multiagent systems with arbitrarily bounded delays. *International Journal of Robust and Nonlinear Control*, **2019**, 29, 1122-1131	3.6	13
106	A fixed time distributed optimization: A sliding mode perspective **2017**,		11
105	LQR-based optimal linear consensus algorithms **2009**,		11
104	Sampled-data formation control under dynamic directed interaction **2009**,		11
103	Distributed attitude synchronization for multiple rigid bodies with euler-lagrange equations of motion **2007**,		11
102	Finite-Horizon H Fault-Tolerant Constrained Consensus for Multiagent Systems With Communication Delays. *IEEE Transactions on Cybernetics*, **2021**, 51, 416-426	10.2	11
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100	Properties of Composite Laplacian Quadratics and Their Applications in Consensus of Linear Differential Inclusions. *IEEE Transactions on Automatic Control*, **2016**, 61, 2269-2275	5.9	10
99	Distributed average tracking for double-integrator agents without using velocity measurements **2015**,		10
98	Distributed convex optimization of time-varying cost functions for double-integrator systems using nonsmooth algorithms **2015**,		10
97	Consensus of linear multi-agent systems with fully distributed control gains under a general directed graph **2014**,		10
96	Distributed subgradient projection algorithm for multi-agent optimization with nonidentical constraints and switching topologies **2012**,		10

95	A Study of Grouping Effect On Mobile Actuator Sensor Networks for Distributed Feedback Control of Diffusion Process Using Central Voronoi Tessellations **2006**,		10
94	Heterogeneous distributed average tracking using nonsmooth algorithms **2017**,		9
93	Distributed coordinated tracking for multiple Euler-Lagrange systems **2010**,		9
92	Minimum-energy multicast tree in cognitive radio networks **2009**,		9
91	Multi-Agent Consensus Using Both Current and Outdated States. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 2874-2879		9
90	Leaderless Formation Control for Multiple Autonomous Vehicles **2006**,		9
89	Distributed average tracking for second-order agents with nonlinear dynamics **2016**,		9
88	Multiagent Rendezvous With Shortest Distance to Convex Regions With Empty Intersection: Algorithms and Experiments. *IEEE Transactions on Cybernetics*, **2019**, 49, 1026-1034	10.2	9
87	Simulation and Experimental Study of Consensus Algorithms for Multiple Mobile Robots with Information Feedback. *Intelligent Automation and Soft Computing*, **2008**, 14, 73-87	2.6	8
86	Synchronized Multiple Spacecraft Rotations: A Revisit in the Context of Consensus Building. *Proceedings of the American Control Conference*, **2007**,	1.2	8
85	An extended proportional-integral control algorithm for distributed average tracking and its applications in Euler-Lagrange systems **2014**,		7
84	Distributed convex optimization of time-varying cost functions with swarm tracking behavior for continuous-time dynamics **2015**,		7
83	Game theory control solution for sensor coverage problem in unknown environment **2014**,		7
82	Distributed constrained consensus in the presence of unbalanced switching graphs and communication delays **2012**,		7
81	Discussion on: Consensus of Second-Order Delayed Multi-Agent Systems with Leader-Following. *European Journal of Control*, **2010**, 16, 200-203	2.5	7
80	Consensus tracking under directed interaction topologies: Algorithms and experiments **2008**,		7
79	Continuous-time distributed Nash equilibrium seeking algorithms for non-cooperative constrained games. *Automatica*, **2021**, 127, 109535	5.7	7
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74	Flocking with a moving leader for multiple uncertain lagrange systems **2014**,		6
73	Collective motion from consensus with Cartesian coordinate coupling - Part II: Double-integrator dynamics **2008**,		6
72	Continuous platooning: a new evolutionary operating concept for automated highway systems		6
71	On the convergence of distributed estimation of LTV dynamic system with switching directed topologies and time-varying sensing models **2016**,		6
70	Containment Problem for Multiagent Systems With Nonconvex Velocity Constraints. *IEEE Transactions on Cybernetics*, **2021**, 51, 4716-4721	10.2	5
69	Distributed Average Tracking in Multi-agent Systems **2020**,		5
68	Synchronization of Coupled Nonlinear Dynamical Systems: Interplay Between Times of Connectivity and Integral of Lipschitz Gain. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2016**, 63, 391-395	3.5	5
67	Distributed containment control of linear multi-agent systems with multiple leaders and reduced-order controllers **2011**,		5
66	Distributed shortest distance consensus problem in multi-agent systems **2012**,		5
65	Constrained nonlinear tracking control for small fixed-wing unmanned air vehicles **2004**,		5
64	Dynamic Modularity Approach to Adaptive Control of Robotic Systems With Closed Architecture. *IEEE Transactions on Automatic Control*, **2020**, 65, 2760-2767	5.9	5
63	Distributed minimum weighted norm solution to linear equations associated with weighted inner product **2016**,		5
62	Fully distributed state estimation with multiple model approach **2016**,		5
61	Observer-Based Distributed Mean-Square Consensus Design for Leader-Following Multiagent Markov Jump Systems. *IEEE Transactions on Cybernetics*, **2021**, 51, 3054-3061	10.2	5
60	Cooperative Adaptive Containment Control With Parameter Convergence via Cooperative Finite-Time Excitation. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	5

59	Distributed solution to linear equations from arbitrary initializations **2017**,		4
58	Distributed coordination of fractional-order systems with extensions to directed dynamic networks and absolute/relative damping **2009**,		4
57	Consensus of information in distributed control of a diffusion process using centroidal Voronoi tessellations **2007**,		4
56	Rendezvous Problem in Multi-vehicle Systems: Information Relay and Local Information Based Strategies **2006**,		4
55	Cooperative Control Design Strategies with Local Interactions		4
54	**2019**,		4
53	Sampled-data containment control for double-integrator agents with dynamic leaders with nonzero inputs. *Systems and Control Letters*, **2020**, 139, 104673	2.4	4
52	Fully Distributed Joint Localization and Target Tracking With Mobile Robot Networks. *IEEE Transactions on Control Systems Technology*, **2021**, 29, 1519-1532	4.8	4
51	A Unified Framework for Adaptive Leaderless Consensus of Uncertain Multi-agent Systems under Directed Graphs. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	4
50	Distributed Average Tracking in Weight-Unbalanced Directed Networks. *IEEE Transactions on Automatic Control*, **2021**, 66, 4436-4443	5.9	4
49	Fully distributed consensus control for a class of disturbed second-order multi-agent systems with directed networks. *Automatica*, **2021**, 132, 109816	5.7	4
48	Cooperative Startup Control for Heterogeneous Vehicle Platoons: A Finite-time Output Tracking-based Approach. *IEEE Transactions on Control of Network Systems*, **2021**, 1-1	4	4
47	Consensus of linear differential inclusions via composite Laplacian quadratics **2015**,		3
46	Decentralized cooperative attitude tracking using Modified Rodriguez Parameters **2009**,		3
45	Satisficing control for multi-agent formation maneuvers		3
44	Distributed Continuous-Time Optimization with Time-Varying Objective Functions and Inequality Constraints **2020**,		3
43	Generalized Nash Equilibrium Seeking via Continuous-Time Coordination Dynamics Over Digraphs. *IEEE Transactions on Control of Network Systems*, **2021**, 8, 1023-1033	4	3
42	Dynamic modularity approach to adaptive inner/outer loop control of robotic systems **2016**,		3

41	Distributed Average Tracking over Weight-Unbalanced Directed Graphs **2019**,		3
40	Cooperative optimal coordination for distributed energy resources **2017**,		2
39	Distributed parameter estimation under unreliable directed networks **2015**,		2
38	Distributed finite-time containment control for multiple Lagrangian systems **2010**,		2
37	Multi-agent coordination with cohesion, dispersion, and containment control **2010**,		2
36	**2011**,		2
35	Spectrum Opportunity Detection: How Good Is Listen-before-Talk?. *Conference Record of the Asilomar Conference on Signals, Systems and Computers*, **2007**,	0.3	2
34	Distributed Continuous-Time Algorithms for Optimal Resource Allocation With Time-Varying Quadratic Cost Functions. *IEEE Transactions on Control of Network Systems*, **2020**, 7, 1974-1984	4	2
33	Controllability and observability of an n-link planar robot with active joints **2016**,		2
32	Distributed Nash Equilibrium Seeking Algorithms for Two-Layer Constrained Non-Cooperative Games **2019**,		2
31	Adaptive Image-Space Regulation for Robotic Systems. *IEEE Transactions on Control Systems Technology*, **2021**, 29, 850-857	4.8	2
30	Distributed Nonlinear Placement for Multicluster Systems: A Time-Varying Nash Equilibrium-Seeking Approach. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	2
29	Communication-efficient Distributed Solutions to a System of Linear Equations with Laplacian Sparse Structure **2018**,		2
28	Fully distributed nonlinear state estimation using sensor networks **2017**,		1
27	Cooperative control of nonlinear multi-agent systems with only relative position measurements **2012**,		1
26	Tracking the average of time-varying nonsmooth signals for double-integrator agents with a fixed topology **2013**,		1
25	Containment control for networked unknown Lagrangian systems with multiple dynamic leaders under a directed graph **2013**,		1
24	Distributed coordinated tracking via a variable structure approach - part II: Swarm tracking **2010**,		1

23	Distributed coordinated tracking via a variable structure approach - part I: Consensus tracking **2010**,		1
22	Distributed multi-agent coordination: A comparison lemma based approach **2011**,		1
21	Distributed Discrete-time Consensus with a Time-varying Reference State **2008**,		1
20	Experimental implementation and validation of consensus algorithms on a mobile actuator and sensor network platform **2007**,		1
19	Decentralization of Coordination Variables in Multi-vehicle Systems		1
18	Multi-Agent Control: A Graph-Theoretic Perspective. *Journal of Systems Science and Complexity*, **2021**, 34, 1973-2002	1	1
17	Robust Event-triggered Distributed Average Tracking for Double-integrator Agents Without Velocity Measurements **2020**,		1
16	Robust Distributed Average Tracking for Double-Integrator Agents Without Velocity Measurements Under Event-Triggered Communication. *IEEE Transactions on Control of Network Systems*, **2021**, 8, 828-837	4	1
15	Convex Optimization via Finite-Time Projected Gradient Flows **2018**,		1
14	Distributed Time-Varying Quadratic Optimal Resource Allocation Subject to Nonidentical Time-Varying Hessians With Application to Multiquadrotor Hose Transportation. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2022**, 1-11	7.3	0
13	Angle-Based Analysis Approach for Distributed Constrained Optimization. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	0
12	Distributed Time-Varying Optimization With State-Dependent Gains: Algorithms and Experiments. *IEEE Transactions on Control Systems Technology*, **2021**, 1-10	4.8	0
11	Distributed containment control for first-order and second-order multiagent systems with arbitrarily bounded delays. *International Journal of Robust and Nonlinear Control*, **2019**, 29, 6657-6657	3.6	
10	Distributed Average Tracking for Double-Integrator Dynamics **2020**, 79-124		
9	Distributed Average Tracking with Input Saturation **2020**, 157-175		
8	A scaling-function approach for distributed constrained optimization in unbalanced multi-agent networks. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	
7	Distributed and communication-efficient solutions to linear equations with special sparse structure. *Systems and Control Letters*, **2022**, 160, 105065	2.4	
6	Distributed Average Tracking for General Linear Dynamics **2020**, 125-134		

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5   Distributed Average Tracking for Networked Euler–Lagrange Systems **2020**, 135-156

4   Distributed Average Tracking in Distributed Convex Optimization **2020**, 193-231

3   Distributed Average Tracking via an Extended PI Scheme **2020**, 61-75

2   Distributed Average Tracking in Formation Control **2020**, 179-191

1   Distributed Average Tracking via Nonsmooth Feedback **2020**, 39-60