Andrey V Savkin

List of Publications by Year
in descending order

319 papers	8,315 citations	44069 48 h-index	71685 76 g-index
323 all docs	323 docs citations	323 times ranked	4731 citing authors

#	Article	IF	Citations
1	Consensus-Based Autonomous Navigation of a Team of RIS-Equipped UAVs for LoS Wireless Communication With Mobile Nodes in High-Density Areas. IEEE Transactions on Automation Science and Engineering, 2023, 20, 923-935.	5.2	4
2	Aerial Surveillance in Cities: When UAVs Take Public Transportation Vehicles. IEEE Transactions on Automation Science and Engineering, 2023, 20, 1069-1080.	5.2	7
3	A Critical Aspect of Dynamic Stability in Autonomous Microgrids: Interaction of Droop Controllers Through the Power Network. IEEE Transactions on Industrial Informatics, 2022, 18, 3159-3170.	11.3	12
4	Online UAV Trajectory Planning for Covert Video Surveillance of Mobile Targets. IEEE Transactions on Automation Science and Engineering, 2022, 19, 735-746.	5.2	25
5	A method for autonomous collision-free navigation of a quadrotor UAV in unknown tunnel-like environments. Robotica, 2022, 40, 835-861.	1.9	17
6	Navigation of a UAV Network for Optimal Surveillance of a Group of Ground Targets Moving Along a Road. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9281-9285.	8.0	24
7	Asymptotically Optimal Path Planning for Ground Surveillance by a Team of UAVs. IEEE Systems Journal, 2022, 16, 3446-3449.	4.6	9
8	Deployment of Charging Stations for Drone Delivery Assisted by Public Transportation Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15043-15054.	8.0	12
9	Robotic Herding of Farm Animals Using a Network of Barking Aerial Drones. Drones, 2022, 6, 29.	4.9	22
10	Optimized deployment of UAV base stations for providing wireless communication service in urban environments. , 2022, , 159-178.		0
11	Data collection in wireless sensor networks by ground robots with fixed trajectories. , 2022, , 83-101.		0
12	Optimal Navigation of an Unmanned Surface Vehicle and an Autonomous Underwater Vehicle Collaborating for Reliable Acoustic Communication with Collision Avoidance. Drones, 2022, 6, 27.	4.9	8
13	Wireless communication networks supported by autonomous UAVs: a survey. , 2022, , 37-55.		0
14	Data collection in wireless sensor networks by ground robots with full freedom. , 2022, , 57-81.		0
15	Energy-efficient path planning of a solar-powered UAV for secure communication in the presence of eavesdroppers and no-fly zones. , 2022, , 103-117.		0
16	Multiobjective path planning of a solar-powered UAV for secure communication in urban environments with eavesdropping avoidance. , 2022, , 119-137.		0
17	Survey of approaches for wireless communication networks supported by ground robots. , 2022, , 9-36.		0
18	Reactive deployment of UAV base stations for providing wireless communication services. , 2022, , 139-157.		0

#	Article	IF	Citations
19	Decentralized Navigation of a UAV Team for Collaborative Covert Eavesdropping on a Group of Mobile Ground Nodes. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3932-3941.	5.2	5
20	Autonomous Navigation of an Aerial Drone to Observe a Group of Wild Animals With Reduced Visual Disturbance. IEEE Systems Journal, 2022, 16, 3339-3348.	4.6	5
21	Energy-efficient path planning of solar-powered UAVs for communicating with mobile ground users in urban environments. , 2022, , 179-198.		0
22	Deployment of Heterogeneous UAV Base Stations for Optimal Quality of Coverage. IEEE Internet of Things Journal, 2022, 9, 16429-16437.	8.7	33
23	Autonomous Guidance of an Aerial Drone for Maintaining an Effective Wireless Communication Link with a Moving Node Using an Intelligent Reflecting Surface. , 2022, , .		4
24	Bioinspired Bearing Only Motion Camouflage UAV Guidance for Covert Video Surveillance of a Moving Target. IEEE Systems Journal, 2021, 15, 5379-5382.	4.6	16
25	Reliable Path Planning for Drone Delivery Using a Stochastic Time-Dependent Public Transportation Network. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4941-4950.	8.0	71
26	Drone Routing in a Time-Dependent Network: Toward Low-Cost and Large-Range Parcel Delivery. IEEE Transactions on Industrial Informatics, 2021, 17, 1526-1534.	11.3	31
27	On the Impact of Fault Ride-Through on Transient Stability of Autonomous Microgrids: Nonlinear Analysis and Solution. IEEE Transactions on Smart Grid, 2021, 12, 999-1010.	9.0	49
28	Range-Based Reactive Deployment of Autonomous Drones for Optimal Coverage in Disaster Areas. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4606-4610.	9.3	24
29	Human Motion Intent Description Based on Bumpless Switching Mechanism for Rehabilitation Robot. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 673-682.	4.9	5
30	MPC-Based UAV Navigation for Simultaneous Solar-Energy Harvesting and Two-Way Communications. IEEE Journal on Selected Areas in Communications, 2021, 39, 3459-3474.	14.0	18
31	Model predictive control for on–off charging of electrical vehicles in smart grids. IET Electrical Systems in Transportation, 2021, 11, 121-133.	2.4	3
32	Path Planning for a Solar-Powered UAV Inspecting Mountain Sites for Safety and Rescue. Energies, 2021, 14, 1968.	3.1	6
33	Navigating UAVs for Optimal Monitoring of Groups of Moving Pedestrians or Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 3891-3896.	6.3	17
34	Distributed model predictive control for joint coordination of demand response and optimal power flow with renewables in smart grid. Applied Energy, 2021, 290, 116701.	10.1	25
35	Real-Time EEG Signal Classification for Monitoring and Predicting the Transition Between Different Anaesthetic States. IEEE Transactions on Biomedical Engineering, 2021, 68, 1450-1458.	4.2	7
36	Energy-efficient decentralized navigation of a team of solar-powered UAVs for collaborative eavesdropping on a mobile ground target in urban environments. Ad Hoc Networks, 2021, 117, 102485.	5.5	16

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37	Networked Unmanned Aerial Vehicles for Surveillance and Monitoring: A Survey. Future Internet, 2021, 13, 174.	3.8	44
38	Revisiting a Three-Player Pursuit-Evasion Game. Journal of Optimization Theory and Applications, 2021, 190, 581-601.	1.5	4
39	A Hybrid Approach for Autonomous Collision-Free UAV Navigation in 3D Partially Unknown Dynamic Environments. Drones, 2021, 5, 57.	4.9	18
40	Decentralized Autonomous Navigation of a UAV Network for Road Traffic Monitoring. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2558-2564.	4.7	46
41	Optimal Deployment of Charging Stations for Aerial Surveillance by UAVs with the Assistance of Public Transportation Vehicles. Sensors, 2021, 21, 5320.	3.8	5
42	Towards Fully Autonomous UAVs: A Survey. Sensors, 2021, 21, 6223.	3.8	35
43	Centralized nonlinear switching control strategy for distributed energy storage systems communicating via a network with large time delays. Journal of Energy Storage, 2021, 41, 102834.	8.1	10
44	A Self-Optimizing Scheduling Model for Large-Scale EV Fleets in Microgrids. IEEE Transactions on Industrial Informatics, 2021, 17, 8177-8188.	11.3	33
45	Navigation of a UAV Team for Collaborative Eavesdropping on Multiple Ground Transmitters. IEEE Transactions on Vehicular Technology, 2021, 70, 10450-10460.	6.3	12
46	Autonomous Navigation of a Team of Unmanned Surface Vehicles for Intercepting Intruders on a Region Boundary. Sensors, 2021, 21, 297.	3.8	17
47	Computationally-Efficient Distributed Algorithms of Navigation of Teams of Autonomous UAVs for 3D Coverage and Flocking. Drones, 2021, 5, 124.	4.9	7
48	A Range-Based Algorithm for Autonomous Navigation of an Aerial Drone to Approach and Follow a Herd of Cattle. Sensors, 2021, 21, 7218.	3.8	6
49	Surveillance of Remote Targets by UAVs. , 2021, , .		2
50	Autonomous Area Exploration and Mapping in Underground Mine Environments by Unmanned Aerial Vehicles. Robotica, 2020, 38, 442-456.	1.9	34
51	An Algorithm of Reactive Collision Free 3-D Deployment of Networked Unmanned Aerial Vehicles for Surveillance and Monitoring. IEEE Transactions on Industrial Informatics, 2020, 16, 132-140.	11.3	76
52	Continuous Description of Human 3D Motion Intent Through Switching Mechanism. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 277-286.	4.9	7
53	Optimal Downlink–Uplink Scheduling of Wireless Networked Control for Industrial IoT. IEEE Internet of Things Journal, 2020, 7, 1756-1772.	8.7	25
54	Wireless Feedback Control With Variable Packet Length for Industrial IoT. IEEE Wireless Communications Letters, 2020, 9, 1586-1590.	5.0	20

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55	Reactive Autonomous Navigation of UAVs for Dynamic Sensing Coverage of Mobile Ground Targets. Sensors, 2020, 20, 3720.	3.8	19
56	Round Trip Routing for Energy-Efficient Drone Delivery Based on a Public Transportation Network. IEEE Transactions on Transportation Electrification, 2020, 6, 1368-1376.	7.8	39
57	A Method for Covert Video Surveillance of a Car or a Pedestrian by an Autonomous Aerial Drone via Trajectory Planning. , 2020, , .		7
58	A Comprehensive Review of Recent Advances in Smart Grids: A Sustainable Future with Renewable Energy Resources. Energies, 2020, 13, 6269.	3.1	118
59	Energy-Efficient Autonomous Navigation of Solar-Powered UAVs for Surveillance of Mobile Ground Targets in Urban Environments. Energies, 2020, 13, 5563.	3.1	8
60	Autonomous Navigation of a Solar-Powered UAV for Secure Communication in Urban Environments with Eavesdropping Avoidance. Future Internet, 2020, 12, 170.	3.8	7
61	A Novel Method for Protecting Swimmers and Surfers From Shark Attacks Using Communicating Autonomous Drones. IEEE Internet of Things Journal, 2020, 7, 9884-9894.	8.7	8
62	Range Measurements Based UAV Navigation for Intercepting Ground Targets. , 2020, , .		1
63	Autonomous Drone Shark Shield: A Novel Shark Repelling System for Protecting Swimmers and Surfers. , 2020, , .		1
64	A Method of Optimized Deployment of Charging Stations for Drone Delivery. IEEE Transactions on Transportation Electrification, 2020, 6, 510-518.	7.8	45
65	Energy-Efficient 3D Navigation of a Solar-Powered UAV for Secure Communication in the Presence of Eavesdroppers and No-Fly Zones. Energies, 2020, 13, 1445.	3.1	21
66	A New Parcel Delivery System with Drones and a Public Train. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 100, 1341-1354.	3.4	22
67	Navigation of a Network of Aerial Drones for Monitoring a Frontier of a Moving Environmental Disaster Area. IEEE Systems Journal, 2020, 14, 4746-4749.	4.6	32
68	PMU Placement Optimization for Efficient State Estimation in Smart Grid. IEEE Journal on Selected Areas in Communications, 2020, 38, 71-83.	14.0	23
69	Securing UAV Communication in the Presence of Stationary or Mobile Eavesdroppers via Online 3D Trajectory Planning. IEEE Wireless Communications Letters, 2020, 9, 1211-1215.	5.0	37
70	Scheduling of a Parcel Delivery System Consisting of an Aerial Drone Interacting with Public Transportation Vehicles. Sensors, 2020, 20, 2045.	3.8	24
71	A method of reactive control for 3D navigation of a nonholonomic robot in tunnel-like environments. Automatica, 2020, 114, 108831.	5.0	10
72	Transient Stability of Grid-Forming Inverters in Microgrids: Nonlinear Analysis. , 2020, , .		0

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73	Interaction of Droop Controllers through Complex Power Network in Microgrids. , 2020, , .		3
74	Use of A UAV Base Station for Searching and Bio-inspired Covert Video Surveillance of Tagged Wild Animals. , 2020, , .		1
75	Real-Time Robust and Optimized Control of a 3D Overhead Crane System. Sensors, 2019, 19, 3429.	3.8	10
76	Optimized deployment of drone base station to improve user experience in cellular networks. Journal of Network and Computer Applications, 2019, 144, 49-58.	9.1	25
77	Profit Maximizing Control of a Microgrid with Renewable Generation and BESS Based on a Battery Cycle Life Model and Energy Price Forecasting. Energies, 2019, 12, 2904.	3.1	10
78	Reactive 3D deployment of a flying robotic network for surveillance of mobile targets. Computer Networks, 2019, 161, 172-182.	5.1	25
79	Control of a microgrid with a renewable energy source, a battery energy storage and thermostatically controlled loads. , 2019, , .		0
80	Asymptotically Optimal Deployment of Drones for Surveillance and Monitoring. Sensors, 2019, 19, 2068.	3.8	42
81	Proactive Deployment of Aerial Drones for Coverage over Very Uneven Terrains: A Version of the 3D Art Gallery Problem. Sensors, 2019, 19, 1438.	3.8	43
82	A Method for Optimized Deployment of a Network of Surveillance Aerial Drones. IEEE Systems Journal, 2019, 13, 4474-4477.	4.6	77
83	Decentralized Three Dimensional Formation Building Algorithms for a Team of Nonholonomic Mobile Agents. International Journal of Control, Automation and Systems, 2019, 17, 1283-1292.	2.7	4
84	Control of a Novel Parcel Delivery System Consisting of a UAV and a Public Train. , 2019, , .		7
85	Mixed Integer Nonlinear Programming for Joint Coordination of Plug-in Electrical Vehicles Charging and Smart Grid Operations. , 2019, , .		1
86	When Drones Take Public Transport: Towards Low Cost and Large Range Parcel Delivery. , 2019, , .		9
87	Decentralized Optimal Control of a Microgrid with Solar PV, BESS and Thermostatically Controlled Loads. Energies, 2019, 12, 2111.	3.1	13
88	Control of Flying Robots for Monitoring of Moving Objects. , 2019, , .		0
89	Optimal Control of a Hybrid UAV/Train Parcel Delivery System. , 2019, , .		4
90	Sensor-Network-Based Navigation of a Mobile Robot for Extremum Seeking Using a Topology Map. IEEE Transactions on Industrial Informatics, 2019, 15, 3962-3972.	11.3	21

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91	Mobile robots in wireless sensor networks: A survey on tasks. Computer Networks, 2019, 148, 1-19.	5.1	78
92	A Method for Optimized Deployment of Unmanned Aerial Vehicles for Maximum Coverage and Minimum Interference in Cellular Networks. IEEE Transactions on Industrial Informatics, 2019, 15, 2638-2647.	11.3	66
93	Deployment of Unmanned Aerial Vehicle Base Stations for Optimal Quality of Coverage. IEEE Wireless Communications Letters, 2019, 8, 321-324.	5.0	111
94	A framework for optimal actuator/sensor selection in a control system. International Journal of Control, 2019, 92, 242-260.	1.9	15
95	Design of optimal sliding-mode control using partial eigenstructure assignment. International Journal of Control, 2019, 92, 1511-1523.	1.9	7
96	Model Predictive Control for Smart Grids With Multiple Electric-Vehicle Charging Stations. IEEE Transactions on Smart Grid, 2019, 10, 2127-2136.	9.0	103
97	A market‐oriented wind power dispatch strategy using adaptive price thresholds and battery energy storage. Wind Energy, 2018, 21, 242-254.	4.2	16
98	Wireless Sensor Network Based Navigation of Micro Flying Robots in the Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2018, 14, 3524-3533.	11.3	85
99	Novel frameworks for the design of fault‐tolerant control using optimal sliding‐mode control. International Journal of Robust and Nonlinear Control, 2018, 28, 3015-3032.	3.7	11
100	On maximizing profit of wind-battery supported power station based on wind power and energy price forecasting. Applied Energy, 2018, 211, 764-773.	10.1	69
101	Robust Kalman filter‐based decentralised target search and prediction with topology maps. IET Wireless Sensor Systems, 2018, 8, 60-67.	1.7	3
102	A safe area search and map building algorithm for a wheeled mobile robot in complex unknown cluttered environments. Robotica, 2018, 36, 96-118.	1.9	19
103	Distributed self-deployment of mobile wireless 3D robotic sensor networks for complete sensing coverage and forming specific shapes. Robotica, 2018, 36, 1-18.	1.9	28
104	Mixed **H2/H∞**-based actuator selection for uncertain polytopic systems with regional pole placement. International Journal of Control, 2018, 91, 320-336.	1.9	7
105	Multi-Agent Sliding Mode Control for State of Charge Balancing Between Battery Energy Storage Systems Distributed in a DC Microgrid. IEEE Transactions on Smart Grid, 2018, 9, 4735-4743.	9.0	153
106	A strategy for safe 3D navigation of non-holonomic robots among moving obstacles. Robotica, 2018, 36, 275-297.	1.9	65
107	Scalable Energy Management for Low Voltage Microgrids Using Multi-Agent Storage System Aggregation. IEEE Transactions on Power Systems, 2018, 33, 1614-1623.	6.5	42
108	An Optical Flow based Tunnel Navigation Algorithm for a Flying Robot. , 2018, , .		2

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109	Reactive Deployment of Flying Robot Base Station over Disaster Areas. , 2018, , .		3
110	Collision Free Navigation of a Flying Robot for Underground Mine Search and Mapping. , 2018, , .		4
111	On the Problem of Flying Robots Deployment to Improve Cellular User Experience. , 2018, , .		4
112	Towards the Internet of Flying Robots: A Survey. Sensors, 2018, 18, 4038.	3.8	52
113	Reactive Control Technology for 3D Navigation of Nonholonomic Robots in Tunnel-Like Environments Based on Limited Sensory Data. , 2018, , .		0
114	Method for planning a wind–solar–battery hybrid power plant with optimal generation–demand matching. IET Renewable Power Generation, 2018, 12, 1800-1806.	3.1	46
115	A Novel Optimal Sliding Mode Control For Multiple Time-Delay Systems. , 2018, , .		1
116	An algorithm for safe navigation of mobile robots by a sensor network in dynamic cluttered industrial environments. Robotics and Computer-Integrated Manufacturing, 2018, 54, 65-82.	9.9	41
117	An Algorithm of Efficient Proactive Placement of Autonomous Drones for Maximum Coverage in Cellular Networks. IEEE Wireless Communications Letters, 2018, 7, 994-997.	5.0	42
118	Effect of Seasonal Variation on Clinical Outcome in Patients with Chronic Conditions: Analysis of the Commonwealth Scientific and Industrial Research Organization (CSIRO) National Telehealth Trial. JMIR Medical Informatics, 2018, 6, e16.	2.6	4
119	A distributed control algorithm for area search by a multi-robot team. Robotica, 2017, 35, 1452-1472.	1.9	19
120	Nonlinear control for reactive navigation of a nonholonomic robot for environmental nongradient–based extremum seeking in maze–like scenes. International Journal of Robust and Nonlinear Control, 2017, 27, 4752-4771.	3.7	3
121	Optimal Aircraft Planar Navigation in Static Threat Environments. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 2413-2426.	4.7	31
122	An energy efficient approach for data collection in wireless sensor networks using public transportation vehicles. AEU - International Journal of Electronics and Communications, 2017, 75, 108-118.	2.9	44
123	Tight circumnavigation of multiple moving targets based on a new method of tracking environmental boundaries. Automatica, 2017, 79, 52-60.	5.0	24
124	A framework for safe assisted navigation of semi-autonomous vehicles among moving and steady obstacles. Robotica, 2017, 35, 981-1005.	1.9	9
125	Mobile robot navigation for emergency source seeking using sensor network topology maps. , 2017, , .		1
126	Viable path planning for data collection robots in a sensing field with obstacles. Computer Communications, 2017, 111, 84-96.	5.1	45

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127	A navigation algorithm for a non-holonomic mobile robot navigated by a sensor network in dynamic cluttered environments. , 2017, , .		0
128	I-UMDPC: The Improved-Unusual Message Delivery Path Construction for Wireless Sensor Networks With Mobile Sinks. IEEE Internet of Things Journal, 2017, 4, 1528-1536.	8.7	18
129	A method of reactive 3D navigation for a tight surface scan by a nonholonomic mobile robot. Automatica, 2017, 75, 119-126.	5.0	11
130	Novel Quasi-Decentralized SMC-Based Frequency and Voltage Stability Enhancement Strategies Using Valve Position Control and FACTS Device. IEEE Access, 2017, 5, 946-955.	4.2	18
131	Distributed control of a robotic network for protection of a region from intruders. , 2017, , .		3
132	Decentralized Target Search in Topology Maps Based on Weighted Least Square Method. , 2017, , .		0
133	Wind power dispatch based on wind forecasting, electricity price and battery lifetime estimation. , 2017, , .		1
134	Data Collection in Nonuniformly Deployed Wireless Sensor Networks by Public Transportation Vehicles. , 2017, , .		2
135	A method for collision free navigation of non-holonomic 3D robots in unknown tunnel like environments. , 2017, , .		3
136	A collision-free area search and 3D map building algorithm for a ground mobile robot in unknown indoor environments. , 2017, , .		0
137	A reactive collision avoidance algorithm for nonholonomic vehicles. , 2017, , .		10
138	A method for collision free sensor network based navigation of flying robots among moving and steady obstacles. , 2017, , .		3
139	Reactive navigation among moving and deforming obstacles. , 2016, , 185-227.		2
140	Safe cooperative navigation of multiple wheeled robots in unknown steady environments with obstacles. , 2016, , 283-311.		0
141	Reactive navigation of wheeled robots for border patrolling. , 2016, , 63-111.		0
142	Safe navigation to a target in unknown cluttered static environments based on border patrolling algorithms. , 2016, , 113-123.		0
143	Decentralized Time-Based Target Searching Algorithm Using Sensor Network Topology Maps. , 2016, , .		1
144	A semi-autonomous motorized mobile hospital bed for safe transportation of head injury patients in dynamic hospital environments without bed switching. Robotica, 2016, 34, 1880-1897.	1.9	7

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145	The problem of minimum risk path planning for flying robots in dangerous environments. , 2016, , .		5
146	Optimal actuator/sensor selection through dynamic output feedback. , 2016, , .		7
147	â€<inf>2</inf>/H<inf>âˆž</inf> based sliding mode control: A partial eigenstructure assignment method. , 2016, , .		2
148	Maximum Likelihood Topology Maps for Wireless Sensor Networks Using an Automated Robot. , 2016, , .		8
149	Path planning algorithms for a mobile robot collecting data in a wireless sensor network deployed in a region with obstacles. , 2016, , .		6
150	Collision free navigation of a non-holonomic ground robot for search and building maps of unknown areas with obstacles. , 2016, , .		4
151	A method for minimizing energy cost in a microgrid with hybrid renewable power generation using controlled battery energy storage. , 2016, , .		4
152	Distributed sliding mode control for multi-module battery energy storage system state of charge balancing. , 2016, , .		2
153	A dynamic state estimation based sliding mode controller for wind energy generation system connected to multimachine grids. , 2016, , .		2
154	Optimal path planning for a vehicle collecting data in a Wireless Sensor Network. , 2016, , .		13
155	Collision free navigation of flying robots among moving obstacles. , 2016, , .		2
156	Minimizing the energy cost for microgrids integrated with renewable energy resources and conventional generation using controlled battery energy storage. Renewable Energy, 2016, 97, 646-655.	8.9	76
157	Range-only based circumnavigation of a group of moving targets by a non-holonomic mobile robot. Automatica, 2016, 65, 76-89.	5.0	48
158	Survey of algorithms for safe navigation of mobile robots in complex environments. , 2016, , 21-49.		6
159	A Constrained Monotonic Charging/Discharging Strategy for Optimal Capacity of Battery Energy Storage Supporting Wind Farms. IEEE Transactions on Sustainable Energy, 2016, 7, 1224-1231.	8.8	67
160	Shortest path algorithm for navigation of wheeled mobile robots among steady obstacles. , 2016, , 51-61.		1
161	Extremum Seeking Navigation Without Derivative Estimation of a Mobile Robot in a Dynamic Environmental Field. IEEE Transactions on Control Systems Technology, 2016, 24, 1084-1091.	5.2	19
162	Distributed formation building algorithms for groups of wheeled mobile robots. Robotics and Autonomous Systems, 2016, 75, 463-474.	5.1	29

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163	Seeking a path through the crowd. , 2016, , 229-250.		1
164	Decentralized control of mobile three-dimensional sensor networks for complete coverage self-deployment and forming specific shapes. , 2015, , .		8
165	Optimization of a power system consisting of wind and solar power plants and battery energy storage for optimal matching of supply and demand. , 2015, , .		2
166	A distributed algorithm for grid-based search by a multi-robot system. , 2015, , .		3
167	An adaptive control algorithm for wind power dispatch using a battery energy storage system. , 2015, , .		3
168	Distributed 3D Dynamic Search Coverage for Mobile Wireless Sensor Networks. IEEE Communications Letters, 2015, 19, 633-636.	4.1	12
169	Decentralized Integral Controllability Analysis Based on a New Unconditional Stability Criterion. IEEE Transactions on Automatic Control, 2015, 60, 211-215.	5.7	2
170	Algorithms for collision-free navigation of mobile robots in complex cluttered environments: a survey. Robotica, 2015, 33, 463-497.	1.9	363
171	A globally converging algorithm for reactive robot navigation among moving and deforming obstacles. Automatica, 2015, 54, 292-304.	5.0	34
172	An Intelligent Robotic Hospital Bed for Safe Transportation of Critical Neurosurgery Patients Along Crowded Hospital Corridors. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 744-754.	4.9	33
173	Range-measurement-based localization and circumnavigation of multiple irregularly moving unknown targets. , 2015, , .		2
174	A method for collision free assisted navigation of semi-autonomous vehicles in dynamic environments with moving and static obstacles. , 2015, , .		2
175	Maximizing the income for wind power plant integrated with a battery energy storage system using dynamic programming. , 2015, , .		1
176	A method for physiological control of a cardiac assist device. , 2015, , .		0
177	Robot navigation for monitoring unsteady environmental boundaries without field gradient estimation. Automatica, 2015, 62, 227-235.	5.0	32
178	A sensorless physiological control algorithm for left ventricular assist device for heart failure patients. , 2014, , .		2
179	A new tracking control approach for 3D overhead crane systems using model predictive control. , 2014, , .		17
180	Real-time kinematic navigation of a mobile robot among moving obstacles with guaranteed global convergence. , 2014, , .		2

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181	Decentralized navigation of nonholonomic robots for 3D formation building. , 2014, , .		1
182	A method for collision free navigation of a robotic hospital bed among steady and moving obstacles. , 2014, , .		0
183	Optimal size of battery energy storage and monotonic charging/discharging strategies for wind farms. , 2014, , .		14
184	A simple real-time algorithm for safe navigation of a non-holonomic robot in complex unknown environments with moving obstacles. , 2014, , .		2
185	3D environmental extremum seeking navigation of a nonholonomic mobile robot. Automatica, 2014, 50, 1802-1815.	5.0	38
186	Seeking a path through the crowd: Robot navigation in unknown dynamic environments with moving obstacles based on an integrated environment representation. Robotics and Autonomous Systems, 2014, 62, 1568-1580.	5.1	91
187	A new discrete-time approach to anti-swing tracking control of overhead cranes. , 2014, , .		6
188	Improving Wind Farm Dispatch in the Australian Electricity Market With Battery Energy Storage Using Model Predictive Control. IEEE Transactions on Sustainable Energy, 2013, 4, 745-755.	8.8	107
189	Set-Valued State Estimation and Attack Detection for Uncertain Descriptor Systems. IEEE Signal Processing Letters, 2013, 20, 1102-1105.	3.6	7
190	A decentralized control algorithm based on the DC power flow model for avoiding cascaded failures in power networks. , 2013, , .		2
191	Kinematic navigation of a mobile robot for environmental extremum seeking without derivatives estimation. , 2013, , .		1
192	An algorithm of decentralized encircling coverage and termination of a moving deformable region by mobile robotic sensor/actuator networks. , 2013, , .		4
193	A method for decentralized formation building for unicycle-like mobile robots. , 2013, , .		5
194	Nonlinear sliding mode control of an unmanned agricultural tractor in the presence of sliding and control saturation. Robotics and Autonomous Systems, 2013, 61, 973-987.	5.1	76
195	The problem of boundary following by a unicycle-like robot with rigidly mounted sensors. Robotics and Autonomous Systems, 2013, 61, 312-327.	5.1	22
196	Closure to discussion on "A method for short-term wind power prediction with multiple observation points". IEEE Transactions on Power Systems, 2013, 28, 1898-1899.	6.5	19
197	A simple biologically inspired algorithm for collision-free navigation of a unicycle-like robot in dynamic environments with moving obstacles. Robotica, 2013, 31, 993-1001.	1.9	94
198	Kinematic navigation of a nonholonomic robot for 3D environmental extremum seeking without gradient estimation. , 2013, , .		0

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