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	Algorithms for collision-free navigation of mobile robots in complex cluttered environments: a survey. Robotica, 2015, 33, 463-497.	1.9	363
2	Robust Control Design Using H-âˆž Methods. Communications and Control Engineering, 2000, , .	1.6	352
3	Robust Kalman Filtering for Signals and Systems with Large Uncertainties. , 1999, , .		323
4	Stability results for switched controller systems. Automatica, 1999, 35, 553-564.	5.0	229
5	Hybrid Dynamical Systems. , 2002, , .		190
6	Analysis and synthesis of networked control systems: Topological entropy, observability, robustness and optimal control. Automatica, 2006, 42, 51-62.	5.0	179
7	A method for guidance and control of an autonomous vehicle in problems of border patrolling and obstacle avoidance. Automatica, 2011, 47, 515-524.	5.0	159
8	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
9	Qualitative Theory of Hybrid Dynamical Systems. , 2000, , .		147
10	Circular-Navigation-Guidance Law for Precision Missile/Target Engagements. Journal of Guidance, Control, and Dynamics, 2006, 29, 314-320.	2.8	142
11	A Method for Short-Term Wind Power Prediction With Multiple Observation Points. IEEE Transactions on Power Systems, 2012, 27, 579-586.	6.5	135
12	Real-time navigation of mobile robots in problems of border patrolling and avoiding collisions with moving and deforming obstacles. Robotics and Autonomous Systems, 2012, 60, 769-788.	5.1	127
13	A Comprehensive Review of Recent Advances in Smart Grids: A Sustainable Future with Renewable Energy Resources. Energies, 2020, 13, 6269.	3.1	118
14	Deployment of Unmanned Aerial Vehicle Base Stations for Optimal Quality of Coverage. IEEE Wireless Communications Letters, 2019, 8, 321-324.	5.0	111
15	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
16	Minimax optimal control of uncertain systems with structured uncertainty. International Journal of Robust and Nonlinear Control, 1995, 5, 119-137.	3.7	106
17	Model Predictive Control for Smart Grids With Multiple Electric-Vehicle Charging Stations. IEEE Transactions on Smart Grid, 2019, 10, 2127-2136.	9.0	103
18	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

#	Article	IF	Citations
19	Navigation of a unicycle-like mobile robot for environmental extremum seeking. Automatica, 2011, 47, 85-91.	5.0	92
20	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
21	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
22	A distributed self-deployment algorithm for the coverage of mobile wireless sensor networks. IEEE Communications Letters, 2009, 13, 877-879.	4.1	83
23	An Analogue of Shannon Information Theory for Detection and Stabilization via Noisy Discrete Communication Channels. SIAM Journal on Control and Optimization, 2007, 46, 1323-1367.	2.1	82
24	The problem of LQG optimal control via a limited capacity communication channel. Systems and Control Letters, 2004, 53, 51-64.	2.3	80
25	Range-only measurements based target following for wheeled mobile robots. Automatica, 2011, 47, 177-184.	5.0	80
26	Mobile robots in wireless sensor networks: A survey on tasks. Computer Networks, 2019, 148, 1-19.	5.1	78
27	A Method for Optimized Deployment of a Network of Surveillance Aerial Drones. IEEE Systems Journal, 2019, 13, 4474-4477.	4.6	77
28	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
29	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
30	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
31	Detectability and Output Feedback Stabilizability of Nonlinear Networked Control Systems. IEEE Transactions on Automatic Control, 2007, 52, 730-735.	5.7	75
32	Equiangular navigation and guidance of a wheeled mobile robot based on range-only measurements. Robotics and Autonomous Systems, 2010, 58, 203-215.	5.1	72
33	A biologically inspired method for robot navigation in a cluttered environment. Robotica, 2010, 28, 637-648.	1.9	72
34	A connection between control and the absolute stabilizability of uncertain systems. Systems and Control Letters, 1994, 23, 197-203.	2.3	71
35	Model validation for robust control of uncertain systems with an integral quadratic constraint. Automatica, 1996, 32, 603-606.	5.0	71
36	Decentralized control for mobile robotic sensor network self-deployment: barrier and sweep coverage problems. Robotica, 2011, 29, 283-294.	1.9	71

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37	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
38	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
39	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
40	Multirate Stabilization of Linear Multiple Sensor Systems via Limited Capacity Communication Channels. SIAM Journal on Control and Optimization, 2005, 44, 584-617.	2.1	66
41	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
42	Reactive and the shortest path navigation of a wheeled mobile robot in cluttered environments. Robotica, 2013, 31, 323-330.	1.9	65
43	A strategy for safe 3D navigation of non-holonomic robots among moving obstacles. Robotica, 2018, 36, 275-297.	1.9	65
44	Circular Navigation Missile Guidance with Incomplete Information and Uncertain Autopilot Model. Journal of Guidance, Control, and Dynamics, 2004, 27, 1078-1083.	2.8	62
45	A biologically inspired method for vision-based docking of wheeled mobile robots. Robotics and Autonomous Systems, 2007, 55, 769-784.	5.1	61
46	Robust stabilization of linear uncertain discrete-time systems via a limited capacity communication channel. Systems and Control Letters, 2004, 53, 347-360.	2.3	59
47	The problem of optimal robust Kalman state estimation via limited capacity digital communication channels. Systems and Control Letters, 2005, 54, 283-292.	2.3	55
48	Method for tracking of environmental level sets by a unicycle-like vehicle. Automatica, 2012, 48, 2252-2261.	5.0	54
49	Decentralized control of a group of mobile robots for deployment in sweep coverage. Robotics and Autonomous Systems, 2011, 59, 497-507.	5.1	52
50	Towards the Internet of Flying Robots: A Survey. Sensors, 2018, 18, 4038.	3.8	52
51	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
52	Range-only based circumnavigation of a group of moving targets by a non-holonomic mobile robot. Automatica, 2016, 65, 76-89.	5.0	48
53	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
54	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

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55	Viable path planning for data collection robots in a sensing field with obstacles. Computer Communications, 2017, 111, 84-96.	5.1	45
56	A Method of Optimized Deployment of Charging Stations for Drone Delivery. IEEE Transactions on Transportation Electrification, 2020, 6, 510-518.	7.8	45
57	Optimal Distributed Blanket Coverage Self-Deployment of Mobile Wireless Sensor Networks. IEEE Communications Letters, 2012, 16, 949-951.	4.1	44
58	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
59	Networked Unmanned Aerial Vehicles for Surveillance and Monitoring: A Survey. Future Internet, 2021, 13, 174.	3.8	44
60	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
61	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
62	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
63	Asymptotically Optimal Deployment of Drones for Surveillance and Monitoring. Sensors, 2019, 19, 2068.	3.8	42
64	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
65	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
66	3D environmental extremum seeking navigation of a nonholonomic mobile robot. Automatica, 2014, 50, 1802-1815.	5.0	38
67	Decentralized Control of Mobile Sensor Networks for Asymptotically Optimal Blanket Coverage Between Two Boundaries. IEEE Transactions on Industrial Informatics, 2013, 9, 365-376.	11.3	37
68	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
69	Towards Fully Autonomous UAVs: A Survey. Sensors, 2021, 21, 6223.	3.8	35
70	A globally converging algorithm for reactive robot navigation among moving and deforming obstacles. Automatica, 2015, 54, 292-304.	5.0	34
71	Autonomous Area Exploration and Mapping in Underground Mine Environments by Unmanned Aerial Vehicles. Robotica, 2020, 38, 442-456.	1.9	34
72	Decentralized Navigation of Groups of Wheeled Mobile Robots With Limited Communication. IEEE Transactions on Robotics, 2010, 26, 1099-1104.	10.3	33

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73	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
74	A Self-Optimizing Scheduling Model for Large-Scale EV Fleets in Microgrids. IEEE Transactions on Industrial Informatics, 2021, 17, 8177-8188.	11.3	33
75	Deployment of Heterogeneous UAV Base Stations for Optimal Quality of Coverage. IEEE Internet of Things Journal, 2022, 9, 16429-16437.	8.7	33
76	Robot navigation for monitoring unsteady environmental boundaries without field gradient estimation. Automatica, 2015, 62, 227-235.	5.0	32
77	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
78	Optimal Aircraft Planar Navigation in Static Threat Environments. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 2413-2426.	4.7	31
79	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
80	Distributed formation building algorithms for groups of wheeled mobile robots. Robotics and Autonomous Systems, 2016, 75, 463-474.	5.1	29
81	Collision free cooperative navigation of multiple wheeled robots in unknown cluttered environments. Robotics and Autonomous Systems, 2012, 60, 1253-1266.	5.1	28
82	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
83	Bearings-Only Guidance of a Unicycle-Like Vehicle Following a Moving Target With a Smaller Minimum Turning Radius. IEEE Transactions on Automatic Control, 2010, 55, 2390-2395.	5.7	25
84	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
85	Reactive 3D deployment of a flying robotic network for surveillance of mobile targets. Computer Networks, 2019, 161, 172-182.	5.1	25
86	Optimal Downlink–Uplink Scheduling of Wireless Networked Control for Industrial IoT. IEEE Internet of Things Journal, 2020, 7, 1756-1772.	8.7	25
87	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
88	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
89	The problem of optimal robust sensor scheduling. Systems and Control Letters, 2001, 43, 149-157.	2.3	24
90	The problem of coordination and consensus achievement in groups of autonomous mobile robots with limited communication. Nonlinear Analysis: Theory, Methods & Applications, 2006, 65, 1094-1102.	1.1	24

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91	Radar Target Tracking via Robust Linear Filtering. IEEE Signal Processing Letters, 2007, 14, 1028-1031.	3.6	24
92	Tight circumnavigation of multiple moving targets based on a new method of tracking environmental boundaries. Automatica, 2017, 79, 52-60.	5.0	24
93	Scheduling of a Parcel Delivery System Consisting of an Aerial Drone Interacting with Public Transportation Vehicles. Sensors, 2020, 20, 2045.	3.8	24
94	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
95	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
96	PMU Placement Optimization for Efficient State Estimation in Smart Grid. IEEE Journal on Selected Areas in Communications, 2020, 38, 71-83.	14.0	23
97	Output feedback stabilization of nonlinear networked control systems with non-decreasing nonlinearities: a matrix inequalities approach. International Journal of Robust and Nonlinear Control, 2007, 17, 387-404.	3.7	22
98	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
99	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
100	Robotic Herding of Farm Animals Using a Network of Barking Aerial Drones. Drones, 2022, 6, 29.	4.9	22
101	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
102	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
103	Wireless Feedback Control With Variable Packet Length for Industrial IoT. IEEE Wireless Communications Letters, 2020, 9, 1586-1590.	5.0	20
104	Decentralized robust set-valued state estimation in networked multiple sensor systems. Computers and Mathematics With Applications, 2010, 59, 2636-2646.	2.7	19
105	Model predictive control based efficient operation of battery energy storage system for primary frequency control. , 2010, , .		19
106	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
107	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
108	A distributed control algorithm for area search by a multi-robot team. Robotica, 2017, 35, 1452-1472.	1.9	19

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109	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
110	Reactive Autonomous Navigation of UAVs for Dynamic Sensing Coverage of Mobile Ground Targets. Sensors, 2020, 20, 3720.	3.8	19
111	Model predictive control for wind power generation smoothing with controlled battery storage. , 2009, , .		18
112	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
113	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
114	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
115	A Hybrid Approach for Autonomous Collision-Free UAV Navigation in 3D Partially Unknown Dynamic Environments. Drones, 2021, 5, 57.	4.9	18
116	A new tracking control approach for 3D overhead crane systems using model predictive control. , 2014, , .		17
117	Navigating UAVs for Optimal Monitoring of Groups of Moving Pedestrians or Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 3891-3896.	6.3	17
118	A method for autonomous collision-free navigation of a quadrotor UAV in unknown tunnel-like environments. Robotica, 2022, 40, 835-861.	1.9	17
119	Autonomous Navigation of a Team of Unmanned Surface Vehicles for Intercepting Intruders on a Region Boundary. Sensors, 2021, 21, 297.	3.8	17
120	A method for robust stabilization related to the Popov stability criterion. International Journal of Control, 1995, 62, 1105-1115.	1.9	16
121	Robust state estimation for a class of uncertain time-delay systems. Systems and Control Letters, 2002, 47, 237-245.	2.3	16
122	Self-deployment of mobile robotic sensor networks for multilevel barrier coverage. Robotica, 2012, 30, 661-669.	1.9	16
123	A market–oriented wind power dispatch strategy using adaptive price thresholds and battery energy storage. Wind Energy, 2018, 21, 242-254.	4.2	16
124	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
125	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
126	A framework for optimal actuator/sensor selection in a control system. International Journal of Control, 2019, 92, 242-260.	1.9	15

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127	Robust extended Kalman filter based technique for location management in PCS networks. Computer Communications, 2004, 27, 502-512.	5.1	14
128	The problem of target following based on range-only measurements for car-like robots. , 2009, , .		14
129	Optimal size of battery energy storage and monotonic charging/discharging strategies for wind farms. , 2014, , .		14
130	Optimal design of networked control systems: computer control via asynchronous communication channels. International Journal of Control, 2004, 77, 1426-1437.	1.9	13
131	Collision-free navigation of an autonomous unmanned helicopter in unknown urban environments: sliding mode and MPC approaches. Robotica, 2012, 30, 537-550.	1.9	13
132	Optimal path planning for a vehicle collecting data in a Wireless Sensor Network. , 2016, , .		13
133	Decentralized Optimal Control of a Microgrid with Solar PV, BESS and Thermostatically Controlled Loads. Energies, 2019, 12, 2111.	3.1	13
134	Decentralized coordinated control of a vehicle network for deployment in sweep coverage. , 2009, , .		12
135	Optimization and control of a distributed Battery Energy Storage System for wind power smoothing. , 2011, , .		12
136	Multitarget Tracking via Space Transformations Using a Single Frequency Continuous Wave Radar. IEEE Transactions on Signal Processing, 2012, 60, 5217-5229.	5.3	12
137	Distributed 3D Dynamic Search Coverage for Mobile Wireless Sensor Networks. IEEE Communications Letters, 2015, 19, 633-636.	4.1	12
138	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
139	Navigation of a UAV Team for Collaborative Eavesdropping on Multiple Ground Transmitters. IEEE Transactions on Vehicular Technology, 2021, 70, 10450-10460.	6.3	12
140	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
141	Navigation of a non-holonomic vehicle for gradient climbing and source seeking without gradient estimation. , 2010, , .		11
142	Wind power dispatch control with battery energy storage using model predictive control. , 2012, , .		11
143	A method of reactive 3D navigation for a tight surface scan by a nonholonomic mobile robot. Automatica, 2017, 75, 119-126.	5.0	11
144	Novel frameworks for the design of faultâ€tolerant control using optimal slidingâ€mode control. International Journal of Robust and Nonlinear Control, 2018, 28, 3015-3032.	3.7	11

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145	Stabilization of stochastic linear plants via limited capacity stochastic communication channels. , 2006, , .		10
146	A problem of decentralized self-deployment for mobile sensor networks: Barrier coverage between landmarks. , 2009, , .		10
147	A reactive collision avoidance algorithm for nonholonomic vehicles. , 2017, , .		10
148	Real-Time Robust and Optimized Control of a 3D Overhead Crane System. Sensors, 2019, 19, 3429.	3.8	10
149	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
150	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
151	A method of reactive control for 3D navigation of a nonholonomic robot in tunnel-like environments. Automatica, 2020, 114, 108831.	5.0	10
152	Speed control and policing in a cellular mobile network: SpeedNet. Computer Communications, 2006, 29, 3633-3646.	5.1	9
153	Decentralized formation flocking and stabilization for networks of unicycles. , 2009, , .		9
154	A collision avoidance strategy for safe autonomous navigation of an intelligent electric-powered wheelchair in dynamic uncertain environments with moving obstacles. , 2013, , .		9
155	A framework for safe assisted navigation of semi-autonomous vehicles among moving and steady obstacles. Robotica, 2017, 35, 981-1005.	1.9	9
156	When Drones Take Public Transport: Towards Low Cost and Large Range Parcel Delivery. , 2019, , .		9
157	Asymptotically Optimal Path Planning for Ground Surveillance by a Team of UAVs. IEEE Systems Journal, 2022, 16, 3446-3449.	4.6	9
158	OUTPUT FEEDBACK GUARANTEED COST CONTROL OF UNCERTAIN SYSTEMS ON AN INFINITE TIME INTERVAL. International Journal of Robust and Nonlinear Control, 1997, 7, 43-58.	3.7	8
159	Interception of a moving object with a specified approach angle by a wheeled robot: Theory and experiment. , 2008, , .		8
160	Mixed nonlinear-sliding mode control of an unmanned farm tractor in the presence of sliding. , 2010, , .		8
161	Fusion Based 3D Tracking of Mobile Transmitters via Robust Set-Valued State Estimation with RSS Measurements. IEEE Communications Letters, 2011, 15, 554-556.	4.1	8
162	An adaptive H$<$inf$>$∞$<$/inf$>$ control design for exercise-independent human heart rate regulation system. , 2011, , .		8

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163	Decentralized control of mobile three-dimensional sensor networks for complete coverage self-deployment and forming specific shapes. , 2015, , .		8
164	Maximum Likelihood Topology Maps for Wireless Sensor Networks Using an Automated Robot. , 2016, , .		8
165	Energy-Efficient Autonomous Navigation of Solar-Powered UAVs for Surveillance of Mobile Ground Targets in Urban Environments. Energies, 2020, 13, 5563.	3.1	8
166	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
167	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
168	Limit Cycles in a Class of Hybrid Dynamical Systems. Mathematics of Control, Signals, and Systems, 2002, 15, 120-144.	2.3	7
169	Decentralized control of a mobile sensor network for deployment in corridor coverage. , 2009, , .		7
170	Decentralized control of mobile sensor networks for triangular blanket coverage. , 2010, , .		7
171	Set-Valued State Estimation and Attack Detection for Uncertain Descriptor Systems. IEEE Signal Processing Letters, 2013, 20, 1102-1105.	3.6	7
172	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
173	Optimal actuator/sensor selection through dynamic output feedback. , 2016, , .		7
174	Mixed H2/Hâˆž-based actuator selection for uncertain polytopic systems with regional pole placement. International Journal of Control, 2018, 91, 320-336.	1.9	7
175	Control of a Novel Parcel Delivery System Consisting of a UAV and a Public Train. , 2019, , .		7
176	Design of optimal sliding-mode control using partial eigenstructure assignment. International Journal of Control, 2019, 92, 1511-1523.	1.9	7
177	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
178	A Method for Covert Video Surveillance of a Car or a Pedestrian by an Autonomous Aerial Drone via Trajectory Planning. , 2020, , .		7
179	Autonomous Navigation of a Solar-Powered UAV for Secure Communication in Urban Environments with Eavesdropping Avoidance. Future Internet, 2020, 12, 170.	3.8	7
180	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

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181	Computationally-Efficient Distributed Algorithms of Navigation of Teams of Autonomous UAVs for 3D Coverage and Flocking. Drones, 2021, 5, 124.	4.9	7
182	Aerial Surveillance in Cities: When UAVs Take Public Transportation Vehicles. IEEE Transactions on Automation Science and Engineering, 2023, 20, 1069-1080.	5.2	7
183	Vision-Based Interception of a Moving Target by a Mobile Robot. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	6
184	Tracking of deforming environmental level sets of dynamic fields by a nonholonomic robot without gradient estimation. , 2013, , .		6
185	A new discrete-time approach to anti-swing tracking control of overhead cranes. , 2014, , .		6
186	Path planning algorithms for a mobile robot collecting data in a wireless sensor network deployed in a region with obstacles. , 2016, , .		6
187	Survey of algorithms for safe navigation of mobile robots in complex environments. , 2016, , 21-49.		6
188	Path Planning for a Solar-Powered UAV Inspecting Mountain Sites for Safety and Rescue. Energies, 2021, 14, 1968.	3.1	6
189	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
190	A method for decentralized self-deployment of a mobile sensor network with given regular geometric patterns. , 2011, , .		5
191	A Method for Reactive Navigation of Nonholonomic Robots in the Presence of Obstacles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11894-11899.	0.4	5
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