Veysel Gazi

List of Publications by Year
in descending order

67 papers	2,981 citations	623734 14 h-index	677142 22 g-index
67 all docs	67 docs citations	67 times ranked	1524 citing authors

#	Article	IF	Citations
1	A Generalized Gaziâ€“Passino Model With Coordinate-Coupling Matrices for Swarm Formation With Rotation Behavior. IEEE Transactions on Control of Network Systems, 2022, 9, 1227-1237.	3.7	5
2	Target Capturing in an Ellipsoidal Region for a Swarm of Double Integrator Agents. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 801-811.	13.1	5
3	A Swarm Model for Target Capturing in a Polygonal Strip. , 2022, , .		0
4	Textile-Based Thermally Driven Actuators for Soft Robotic Mechanotherapy Applications. , 2022, , .		1
5	Adaptive Swarm Coordination and Formation Control. , 2020, , 2041-2075.		0
6	Modelling and Coordination of a Swarm of Quadrotors Using Lagrange Dynamics and Potential Functions. , 2019, , .		2
7	Decentralized Formation Control of a Swarm of Quadrotor Helicopters. , 2019, , .		17
8	Distributed sensor deployment using potential fields. Ad Hoc Networks, 2017, 67, 77-86.	5.5	6
9	Chemical concentration map building using whale optimization algorithm. , 2017, , .		0
10	Implementation Studies of Robot Swarm Navigation Using Potential Functions and Panel Methods. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2556-2567.	5.8	24
11	Adaptive Internal Model-Based Distributed Output Agreement in a Class of Multi-Agent Dynamic Systems. Studies in Systems, Decision and Control, 2016, , 451-471.	1.0	0
12	Particle swarm optimization based distributed agreement in multi-agent dynamic systems. , 2014, , .		1
13	Sensor coverage maximization with potential fields. , 2014, , .		2
14	Distributed output agreement in a class of uncertain linear heterogeneous multi-agent dynamic systems. , 2014, , .		6
15	Experimental studies on chemical concentration map building by a multi-robot system using bio-inspired algorithms. Autonomous Agents and Multi-Agent Systems, 2014, 28, 72-100.	2.1	46
16	Stable adaptive Particle Swarm Optimization. , 2013, , .		7
17	Single-View Distance-Estimation-Based Formation Control of Robotic Swarms. IEEE Transactions on Industrial Electronics, 2013, 60, 5781-5791.	7.9	94
18	Adaptive formation control and target tracking in a class of multi-agent systems: Formation maneuvers. , 2013, , .		9

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19	On Lagrangian dynamics based modeling of swarm behavior. Physica D: Nonlinear Phenomena, 2013, 260, 159-175.	2.8	21
20	Indirect adaptive formation control with nonlinear dynamics and parametric uncertainty. , 2013, , .		5
21	Distributed adaptive output agreement in a class of multi-agent systems. , 2013, , .		3
22	Virtual cancelation plume for multiple odor source localization. , 2013, , .		10
23	A Target Tracking Approach for Nonholonomic Agents Based on Artificial Potentials and Sliding Mode Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	1.6	29
24	Comparing Clustering Techniques for Real Microarray Data. , 2012, , .		1
25	Stochastic stability analysis of the particle dynamics in the PSO algorithm. , 2012, , .		24
26	Adaptive internal model based formation control of a class of multi-agent systems with switched exosystems. , 2012, , .		9
27	Swarm Stability and Optimization. , 2011, , .		158
28	Target Tracking Using Adaptive Gain Backstepping Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 83-88.	0.4	0
29	Design of Circling Around a Target Controllers for Mobile Robots by Feedback Linearization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 138-143.	0.4	0
30	Implementation of robot formation control and navigation using real-time panel method. , 2010, , .		2
31	Chemical concentration map building through bacterial foraging optimization based search algorithm by mobile robots. , 2010, , .		6
32	Adaptive internal model based formation control of a class of multi-agent systems. , 2010, , .		11
33	Cooperative chemical concentration map building using Decentralized Asynchronous Particle Swarm Optimization based search by mobile robots. , 2010, , .		18
34	Adaptive formation control and target tracking in a class of multi-agent systems. , 2010, , .		14
35	Swarm Stability. The Electrical Engineering Handbook, 2010, , 9-1-9-23.	0.2	0
36	Experimental Study on the Effects of Communication Range on Cooperative Robotic Search in Complex Environments. , 2009, , .		3

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37	Comparison of three orientation agreement strategies in selfâ€propelled particle systems with turn angle restrictions in synchronous and asynchronous settings. Asian Journal of Control, 2008, 10, 212-232.	3.0	9
38	Stability of an Asynchronous Swarm With Time-Dependent Communication Links. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 267-274.	5.0	63
39	Tracking a Maneuvering Target with a Non-holonomic Agent Using Artificial Potentials and Sliding Mode Control. , 2008, , .		9
40	Decentralized asynchronous particle swarm optimization. , 2008, , .		21
41	Agents at play: Off-the-shelf software for practical multi-robot applications. , 2008, , .		0
42	Particle swarm optimization with dynamic neighborhood topology: Three neighborhood strategies and preliminary results. , 2008, , .		43
43	Single view depth estimation based formation control of robotic swarms: Obstacle avoidance, simulation, and practical issues. , 2008, , .		6
44	An experiment on squad navigation of human and robots. , 2008, , .		10
45	Particle Swarm Optimization With Dynamic Neighborhood. , 2007, , .		3
46	Asynchronous Particle Swarm Optimization. , 2007, , .		8
47	Swarm Tracking Using Artificial Potentials and Sliding Mode Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007, 129, 749-754.	1.6	50
48	Output regulation of a class of linear systems with switched exosystems. International Journal of Control, 2007, 80, 1665-1675.	1.9	31
49	Target tracking using artificial potentials and sliding mode control. International Journal of Control, 2007, 80, 1626-1635.	1.9	43
50	Aggregation in a swarm of non-holonomic agents using artificial potentials and sliding mode control. , 2007, , .		8
51	Formation control with potential functions and Newton's iteration. , 2007, , .		1
52	Decentralized output regulation of a class of nonlinear systems. International Journal of Control, 2006, 79, 1512-1522.	1.9	9
53	Swarm Tracking Using Artificial Potentials and Sliding Mode Control. , 2006, , .		30
54	Spacecraft Swarm Navigation and Control Using Artificial Potential Field and Sliding Mode Control. , 2006, , .		18

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55	Coordination and Control of Multi-agent Dynamic Systems: Models and Approaches. , 2006, , 71-102.		73
56	Asynchronous Cyclic Pursuit. Lecture Notes in Computer Science, 2006, , 667-678.	1.3	6
57	Effects of Asynchronism and Neighborhood Size on Clustering in Self-propelled Particle Systems. Lecture Notes in Computer Science, 2006, , 665-676.	1.3	5
58	Formation control of a multi-agent system using non-linear servomechanism. International Journal of Control, 2005, 78, 554-565.	1.9	47
59	Stability of a One-Dimensional Discrete-Time Asynchronous Swarm. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 834-841.	5.0	36
60	Swarm aggregations using artificial potentials and sliding-mode control. , 2005, 21, 1208-1214.		265
61	A class of attractions/repulsion functions for stable swarm aggregations. International Journal of Control, 2004, 77, 1567-1579.	1.9	255
62	Stability Analysis of Social Foraging Swarms. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 539-557.	5.0	509
63	Stability analysis of swarms. IEEE Transactions on Automatic Control, 2003, 48, 692-697.	5.7	744
64	Stability analysis of swarms. , 2002, , .		83
65	Stability analysis of swarms in an environment with an attractant/repellent profile. , 2002, , .		33
66	Complex control system design and implementation using the NIST-RCS software library. IEEE Control Systems, 1999, 19, 12-28.	0.8	6
67	Stability of a one-dimensional discrete-time asynchronous swarm. , 0, , .		18