Chi-Tsun Cheng

List of Publications by Year
in descending order

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		471509	477307
78	1,191	17	29
papers	citations	h-index	g-index

78	78	78	1093
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Delay-Aware Data Collection Network Structure for Wireless Sensor Networks. IEEE Sensors Journal, 2011, 11, 699-710.	4.7	113
2	A Delay-Aware Network Structure for Wireless Sensor Networks With In-Network Data Fusion. IEEE Sensors Journal, 2013, 13, 1622-1631.	4.7	76
3	Developing a Digital Twin and Digital Thread Framework for an â€˜Industry 4.0â€™ Shipyard. Applied Sciences (Switzerland), 2021, 11, 1097.	2.5	65
4	A Clustering Algorithm for Wireless Sensor Networks Based on Social Insect Colonies. IEEE Sensors Journal, 2011, 11, 711-721.	4.7	61
5	A Constraint-Aware Heuristic Path Planner for Finding Energy-Efficient Paths on Uneven Terrains. IEEE Transactions on Industrial Informatics, 2015, 11, 601-611.	11.3	61
6	A Genetic Algorithm-Inspired UUV Path Planner Based on Dynamic Programming. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1128-1134.	2.9	46
7	Agglomerative Clustering-Based Network Partitioning for Parallel Power System Restoration. IEEE Transactions on Industrial Informatics, 2018, 14, 3325-3333.	11.3	46
8	An Energy-Aware Scheduling Scheme for Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 3427-3444.	6.3	44
9	Data Clustering with Cluster Size Constraints Using a Modified K-Means Algorithm. , 2014, , .		42
10	Distributed Antiflocking Algorithms for Dynamic Coverage of Mobile Sensor Networks. IEEE Transactions on Industrial Informatics, 2016, 12, 1795-1805.	11.3	42
11	Concurrent Data Collection Trees for IoT Applications. IEEE Transactions on Industrial Informatics, 2017, 13, 793-799.	11.3	38
12	A Real-Time ASL Recognition System Using Leap Motion Sensors. , 2015, , .		28
13	Robust Positioning Systems in the Presence of Outliers Under Weak GPS Signal Conditions. IEEE Systems Journal, 2012, 6, 401-413.	4.6	25
14	Shortest Path Planning for Energy-Constrained Mobile Platforms Navigating on Uneven Terrains. IEEE Transactions on Industrial Informatics, 2018, 14, 4264-4272.	11.3	24
15	A UAV-assisted topology-aware data aggregation protocol in WSN. Physical Communication, 2019, 34, 48-57.	2.1	24
16	An ACO-Based Tool-Path Optimizer for 3-D Printing Applications. IEEE Transactions on Industrial Informatics, 2019, 15, 2277-2287.	11.3	23
17	A Joint User Scheduling and Trajectory Planning Data Collection Strategy for the UAV-Assisted WSN. IEEE Communications Letters, 2021, 25, 2333-2337.	4.1	23
18	Trajectory planning for 3D printing: A revisit to traveling salesman problem. , 2016, , .		21

#	Article	IF	Citations
19	Human-Centered Gamification Framework for Manufacturing Systems. Procedia CIRP, 2020, 93, 670-675.	1.9	21
20	Semi-Flocking-Controlled Mobile Sensor Networks for Dynamic Area Coverage and Multiple Target Tracking. IEEE Sensors Journal, 2018, 18, 8883-8892.	4.7	20
21	Bio-Inspired Heuristics for VM Consolidation in Cloud Data Centers. IEEE Systems Journal, 2020, 14, 152-163.	4.6	20
22	A Stable Matching-Based Virtual Machine Allocation Mechanism for Cloud Data Centers. , 2016, , .		17
23	Distributed anti-flocking control for mobile surveillance systems. , 2015, , .		15
24	A Bio-Inspired Scheduling Scheme for Wireless Sensor Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	13
25	Cooperative path planner for UAVs using ACO algorithm with Gaussian distribution functions. , 2009, , .		13
26	A power and thermal-aware virtual machine allocation mechanism for Cloud data centers. , 2015, , .		11
27	A 3D printing path optimizer based on Christofides algorithm. , 2016, , .		11
28	A Roadmap to Integrate Digital Twins for Small and Medium-Sized Enterprises. Applied Sciences (Switzerland), 2021, 11, 9479.	2.5	11
29	A 2-Dimensional ACO-Based Path Planner for Off-Line Robot Path Planning. , 2013, , .		10
30	A Delay-Aware Network Structure for Wireless Sensor Networks With Consecutive Data Collection Processes. IEEE Sensors Journal, 2013, 13, 2413-2422.	4.7	10
31	Energy-Efficient Anti-Flocking Control for Mobile Sensor Networks on Uneven Terrains. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 2022-2026.	3.0	9
32	Path-Planning-Enabled Semiflocking Control for Multitarget Monitoring in Mobile Sensor Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 4778-4787.	11.3	9
33	An ACO-based off-line path planner for nonholonomic mobile robots. , 2014, , .		8
34	Finding energy-efficient paths on uneven terrains. , 2014, , .		8
35	A Relaxation Scheme for TSP-Based 3D Printing Path Optimizer. , 2016, , .		8
36	Rapidly Replanning A*. , 2016, , .		8

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37	Accelerating 3D Printing Process Using an Extended Ant Colony Optimization Algorithm. , 2018, , .		8
38	Territorial Marking for Improved Area Coverage in Anti-Flocking-Controlled Mobile Sensor Networks. , 2018, , .		8
39	Rapid replanning of energy-efficient paths for navigation on uneven terrains. , 2015, , .		7
40	Multiobjective path planning on uneven terrains based on NAMOA. , 2016, , .		7
41	Energy-Efficient Semi-Flocking Control of Mobile Sensor Networks on Rough Terrains. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 622-626.	3.0	7
42	Overlay Networks Construction for Multilayered Live Media Streaming. , 2006, , .		6
43	An AUVs path planner using genetic algorithms with a deterministic crossover operator. , 2010, , .		6
44	A Multi-Objective Optimization Framework for Cluster-Based Wireless Sensor Networks. , 2012, , .		6
45	A refinement process for nozzle path planning in 3D printing. , 2017, , .		6
46	A Nozzle Path Planner for 3-D Printing Applications. IEEE Transactions on Industrial Informatics, 2020, 16, 6313-6323.	11.3	6
47	Survey on Security Concepts to Adapt Flexible Manufacturing and Operations Management based upon Multi-Agent Systems. , 2020, , .		6
48	A Composite Metric Routing Approach for Energy-Efficient Shortest Path Planning on Natural Terrains. Applied Sciences (Switzerland), 2021, 11, 6939.	2.5	6
49	An Improved Dynamic Z* Algorithm for Rapid Replanning of Energy-Efficient Paths. , 2015, , .		5
50	Effects of Correlation-Based VM Allocation Criteria to Cloud Data Centers. , 2016, , .		5
51	A consistent heuristic for efficient path planning on mobility maps. , 2017, , .		5
52	Community-based informed agents selection for flocking with a virtual leader. International Journal of Control, Automation and Systems, 2017, 15, 394-403.	2.7	5
53	An $omega$-Free Gyro-Free Accelerometer Pair Algorithm for 2D Trajectory Reconstruction. IEEE Transactions on Vehicular Technology, 2020, 69, 16173-16177.	6.3	5
54	Bias-Error Accumulation Analysis for Inertial Navigation Methods. IEEE Signal Processing Letters, 2022, 29, 299-303.	3.6	5

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55	A scheduling scheme for wireless sensor networks based on social insect colonies. IET Communications, 2009, 3, 714.	2.2	4
56	An Analysis on the Delay-Aware Data Collection Network Structure Using Pareto Optimality. , 2012, , .		4
57	Cluster-based informed agents selection for flocking with a virtual leader. , 2015, , .		4
58	Live demonstration: A HMM-based real-time sign language recognition system with multiple depth sensors. , 2015, , .		4
59	Subsystem size optimization for efficient parallel restoration of power systems. , 2017, , .		4
60	Path Planning for Semi-Flocking-Controlled Mobile Sensor Networks on Mobility Maps. , 2018, , .		4
61	A thermalâ€aware VM consolidation mechanism with outage avoidance. Software - Practice and Experience, 2019, 49, 906-920.	3.6	4
62	Temnothorax albipennis migration inspired semi-flocking control for mobile sensor networks. Chaos, 2019, 29, 063113.	2.5	4
63	A chaotic motion controller for camera networks. , 2011, , .		3
64	To Split or Not to Split? From the Perspective of a Delay-Aware Data Collection Network Structure. , 2013, , .		3
65	Balanced-Switching-Oriented Blind Interference-Alignment Scheme for 2-User MISO Interference Channel. IEEE Communications Letters, 2020, 24, 2324-2328.	4.1	3
66	Usage of digital twins for gamification applications in manufacturing. Procedia CIRP, 2022, 107, 675-680.	1.9	3
67	A heuristics-based VM allocation mechanism for cloud data centers. , 2017, , .		2
68	Semi-Flocking-Controlled Mobile Sensor Networks for Tracking Targets with Different Priorities. , 2019, , .		2
69	Retransmission Methods to Improve Voltage Control of Distributed Generation System. IEEE Communications Letters, 2021, 25, 1862-1866.	4.1	2
70	A greedy-model-based reinforcement learning algorithm for Beyond-5G cooperative data collection. Physical Communication, 2022, 50, 101496.	2.1	2
71	Adapting Augmented Reality Systems to the usersâ€™ needs using Gamification and error solving methods. Procedia CIRP, 2021, 104, 140-145.	1.9	2
72	The importance of transparency in naming conventions, designs, and operations of safety features: from modern ADAS to fully autonomous driving functions. AI and Society, 2023, 38, 983-993.	4.6	2

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73	Performance evaluation of transmission power optimization formulations in wireless sensor networks using pareto optimality. , 2012, , .		1
74	Multi-objective directional sensor placement for wireless sensor networks. , 2014, , .		1
75	An efficient data collecting network structure in wireless sensor networks. , 2008, , .		0
76	A k-Means-Based Formation Algorithm for the Delay-Aware Data Collection Network Structure. , 2014, , .		0
77	Utilities. , 2021, , 197-213.		0
78	Performance Evaluation of Skill-Based Order-Assignment in Production Environments with Multi-Agent Systems. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2021, , 1-1.	3.9	0