

Hung Manh La

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82 papers	1,944 citations	24 h-index	41 g-index
102 ext. papers	2,720 ext. citations	3.9 avg, IF	5.75 L-index

#	Paper	IF	Citations
82	Detection of delamination and rebar debonding in concrete structures with ultrasonic SH-waveform tomography. <i>Automation in Construction</i> , 2022 , 133, 104004	9.6	5
81	Blockchain-Enabled Intelligent Vehicular Edge Computing. <i>IEEE Network</i> , 2021 , 35, 125-131	11.4	10
80	A scalable blockchain based trust management in VANET routing protocol. <i>Journal of Parallel and Distributed Computing</i> , 2021 , 152, 144-156	4.4	16
79	Evaluating the Co-dependence and Co-existence between Religion and Robots: Past, Present and Insights on the Future. <i>International Journal of Social Robotics</i> , 2021 , 13, 219-235	4	2
78	Architecture, Classification, and Applications of Contemporary Unmanned Aerial Vehicles. <i>IEEE Consumer Electronics Magazine</i> , 2021 , 1-1	3.2	8
77	A Climbing Robot for Steel Bridge Inspection. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 102, 1	2.9	6
76	A Deep Learning-Based Autonomous Robot Manipulator for Sorting Application 2020 ,		2
75	Nonprehensile Manipulation:A Trajectory-Planning Perspective. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 1-1	5.5	3
74	Multi-Robot Swarm for Cooperative Scalar Field Mapping 2020 , 208-223		1
73	A Magnetic Wheeled Robot for Steel Bridge Inspection. <i>Lecture Notes in Networks and Systems</i> , 2020 , 11-17	0.5	1
72	A Practical Climbing Robot for Steel Bridge Inspection 2020 ,		4
71	Rebar detection and localization for bridge deck inspection and evaluation using deep residual networks. <i>Automation in Construction</i> , 2020 , 120, 103393	9.6	8
70	Consensus, cooperative learning, and flocking for multiagent predator avoidance. <i>International Journal of Advanced Robotic Systems</i> , 2020 , 17,	1.4	4
69	Review of Non-Destructive Civil Infrastructure Evaluation for Bridges: State-of-the-Art Robotic Platforms, Sensors and Algorithms. <i>Sensors</i> , 2020 , 20,	3.8	19
68	Decentralized Function Approximated Q-Learning in Multi-Robot Systems For Predator Avoidance. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 6342-6349	4.2	5
67	Deep Learning-Based Feature Silencing for Accurate Concrete Crack Detection. <i>Sensors</i> , 2020 , 20,	3.8	8
66	A Distributed Control Framework of Multiple Unmanned Aerial Vehicles for Dynamic Wildfire Tracking. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 1537-1548	7.3	44

65	A Review of SLAM Techniques and Security in Autonomous Driving 2019 ,		20
64	Deep Reinforcement Learning Using Genetic Algorithm for Parameter Optimization 2019 ,		24
63	Review of Deep Reinforcement Learning for Robot Manipulation 2019 ,		39
62	Formation control for autonomous robots with collision and obstacle avoidance using a rotational and repulsive forceBased approach. <i>International Journal of Advanced Robotic Systems</i> , 2019 , 16, 172988141984789		8
61	Hindsight Experience Replay With Experience Ranking 2019 ,		2
60	Concrete Crack Pixel Classification Using an Encoder Decoder Based Deep Learning Architecture. <i>Lecture Notes in Computer Science</i> , 2019 , 593-604	0.9	3
59	Rebar Detection and Localization for Non-destructive Infrastructure Evaluation of Bridges Using Deep Residual Networks. <i>Lecture Notes in Computer Science</i> , 2019 , 631-643	0.9	
58	Lidar-Monocular Visual Odometry with Genetic Algorithm for Parameter Optimization. <i>Lecture Notes in Computer Science</i> , 2019 , 358-370	0.9	3
57	Development of a Steel Bridge Climbing Robot 2019 ,		7
56	2019 ,		2
55	Dynamic task allocation in multi-robot coordination for moving target tracking: A distributed approach. <i>Automatica</i> , 2019 , 100, 75-81	5.7	57
54	State Estimation For An Agonistic-Antagonistic Muscle System. <i>Asian Journal of Control</i> , 2019 , 21, 354-363	3.7	4
53	Automated robotic monitoring and inspection of steel structures and bridges. <i>Robotica</i> , 2019 , 37, 947-967	6.1	39
52	A Novel Potential Field Controller for Use on Aerial Robots. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 665-676	7.3	26
51	. <i>IEEE Access</i> , 2018 , 6, 22976-22986	3.5	14
50	Collaborative and Compressed Mobile Sensing for Data Collection in Distributed Robotic Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 1729-1740	4	23
49	Extended rapidly exploring random treeBased dynamic path planning and replanning for mobile robots. <i>International Journal of Advanced Robotic Systems</i> , 2018 , 15, 172988141877387	1.4	25
48	Reinforcement Learning for Autonomous UAV Navigation Using Function Approximation 2018 ,		15

47	A Genetic Algorithm for Convolutional Network Structure Optimization for Concrete Crack Detection 2018 ,		14
46	Nondestructive evaluation sensor fusion with autonomous robotic system for civil infrastructure inspection. <i>Journal of Field Robotics</i> , 2018 , 35, 988-1004	6.7	27
45	. <i>IEEE Transactions on Control of Network Systems</i> , 2017 , 4, 680-691	4	42
44	Manipulability Optimization of Redundant Manipulators Using Dynamic Neural Networks. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 4710-4720	8.9	205
43	Development of an autonomous bridge deck inspection robotic system. <i>Journal of Field Robotics</i> , 2017 , 34, 1489-1504	6.7	45
42	A Comprehensive Review of Smart Wheelchairs: Past, Present, and Future. <i>IEEE Transactions on Human-Machine Systems</i> , 2017 , 47, 486-499	4.1	81
41	Autonomous robotic system using non-destructive evaluation methods for bridge deck inspection 2017 ,		14
40	Adaptive consensus algorithms for real-time operation of multi-agent systems affected by switching network events. <i>International Journal of Robust and Nonlinear Control</i> , 2017 , 27, 1566-1588	3.6	21
39	A distributed control framework for a team of unmanned aerial vehicles for dynamic wildfire tracking 2017 ,		31
38	Dynamic path planning and replanning for mobile robots using RRT 2017 ,		17
37	ParkSense: Automatic Parking Positioning by Leveraging In-Vehicle Magnetic Field Variation. <i>IEEE Access</i> , 2017 , 5, 25021-25033	3.5	5
36	A multi-functional inspection robot for civil infrastructure evaluation and maintenance 2017 ,		6
35	2017 ,		3
34	Automated Crack Detection on Concrete Bridges. <i>IEEE Transactions on Automation Science and Engineering</i> , 2016 , 13, 591-599	4.9	182
33	. <i>IEEE Transactions on Human-Machine Systems</i> , 2016 , 46, 822-833	4.1	13
32	A Smart Shoe for building a real-time 3D map. <i>Automation in Construction</i> , 2016 , 71, 2-12	9.6	14
31	Visual and 3D Mapping for Steel Bridge Inspection Using a Climbing Robot 2016 ,		9
30	Automated Rebar Detection for Ground-Penetrating Radar. <i>Lecture Notes in Computer Science</i> , 2016 , 815-824	0.9	10

29	Design and implementation of an autonomous robot for steel bridge inspection 2016 ,		10
28	Development of a smart wheelchair for people with disabilities 2016 ,		6
27	Distributed formation control for autonomous robots following desired shapes in noisy environment 2016 ,		17
26	Distributed flocking control of mobile robots by bounded feedback 2016 ,		8
25	Data analysis and visualization for the bridge deck inspection and evaluation robotic system. <i>Visualization in Engineering</i> , 2015 , 3,	3	27
24	Multirobot Cooperative Learning for Predator Avoidance. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 52-63	4.8	73
23	Compressive and collaborative mobile sensing for scalar field mapping in robotic networks 2015 ,		8
22	Adaptive Flocking Control of Multiple Unmanned Ground Vehicles by Using a UAV. <i>Lecture Notes in Computer Science</i> , 2015 , 628-637	0.9	3
21	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2015 , 45, 1-12	7.3	90
20	Delamination and concrete quality assessment of concrete bridge decks using a fully autonomous RABIT platform. <i>Structural Monitoring and Maintenance</i> , 2015 , 2, 19-34		22
19	Attenuation-Based Methodology for Condition Assessment of Concrete Bridge Decks Using GPR 2015 ,		4
18	Development of a Smart Shoe for Building a Real-Time 3D Map 2015 ,		2
17	. <i>IEEE Transactions on Automation Science and Engineering</i> , 2014 , 11, 367-378	4.9	103
16	Autonomous robotic system for bridge deck data collection and analysis 2014 ,		26
15	Formation Control of Multiple Rectangular Agents with Limited Communication Ranges. <i>Lecture Notes in Computer Science</i> , 2014 , 915-924	0.9	5
14	Visual and Acoustic Data Analysis for the Bridge Deck Inspection Robotic System 2014 ,		8
13	Distributed Sensor Fusion for Scalar Field Mapping Using Mobile Sensor Networks. <i>IEEE Transactions on Cybernetics</i> , 2013 , 43, 766-78	10.2	80
12	Mechatronic Systems Design for an Autonomous Robotic System for High-Efficiency Bridge Deck Inspection and Evaluation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013 , 18, 1655-1664	5.5	75

11	Autonomous robotic system for high-efficiency non-destructive bridge deck inspection and evaluation 2013 ,		25
10	Multi-Agent Motion Control in Cluttered and Noisy Environments. <i>Journal of Communications</i> , 2013 , 8, 32-46	0.5	14
9	Dynamic target tracking and observing in a mobile sensor network. <i>Robotics and Autonomous Systems</i> , 2012 , 60, 996-1009	3.5	47
8	Decentralized flocking control with a minority of informed agents 2011 ,		4
7	Developing a crack inspection robot for bridge maintenance 2011 ,		12
6	Optimal flocking control for a mobile sensor network based a moving target tracking 2009 ,		12
5	Flocking control of a mobile sensor network to track and observe a moving target 2009 ,		26
4	Adaptive flocking control for dynamic target tracking in mobile sensor networks 2009 ,		19
3	Robust adaptive control with leakage modification for a nonlinear model of Ionic Polymer Metal Composites (IPMC) 2009 ,		3
2	Moving targets tracking and observing in a distributed mobile sensor network 2009 ,		6
1	Special issue on recent advances in field and service robotics: handling harsh environments and cooperation. <i>Robotica</i> ,1-3	2.1	1