Hung Manh La

List of Publications by Citations

82	1,944	24	41
papers	citations	h-index	g-index

102	2,720	3.9	5.75
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
82	Manipulability Optimization of Redundant Manipulators Using Dynamic Neural Networks. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 4710-4720	8.9	205
81	Automated Crack Detection on Concrete Bridges. *IEEE Transactions on Automation Science and Engineering*, **2016**, 13, 591-599	4.9	182
80	. *IEEE Transactions on Automation Science and Engineering*, **2014**, 11, 367-378	4.9	103
79	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2015**, 45, 1-12	7.3	90
78	A Comprehensive Review of Smart Wheelchairs: Past, Present, and Future. *IEEE Transactions on Human-Machine Systems*, **2017**, 47, 486-499	4.1	81
77	Distributed Sensor Fusion for Scalar Field Mapping Using Mobile Sensor Networks. *IEEE Transactions on Cybernetics*, **2013**, 43, 766-78	10.2	80
76	Mechatronic Systems Design for an Autonomous Robotic System for High-Efficiency Bridge Deck Inspection and Evaluation. *IEEE/ASME Transactions on Mechatronics*, **2013**, 18, 1655-1664	5.5	75
75	Multirobot Cooperative Learning for Predator Avoidance. *IEEE Transactions on Control Systems Technology*, **2015**, 23, 52-63	4.8	73
74	Dynamic task allocation in multi-robot coordination for moving target tracking: A distributed approach. *Automatica*, **2019**, 100, 75-81	5.7	57
73	Dynamic target tracking and observing in a mobile sensor network. *Robotics and Autonomous Systems*, **2012**, 60, 996-1009	3.5	47
72	Development of an autonomous bridge deck inspection robotic system. *Journal of Field Robotics*, **2017**, 34, 1489-1504	6.7	45
71	A Distributed Control Framework of Multiple Unmanned Aerial Vehicles for Dynamic Wildfire Tracking. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 50, 1537-1548	7.3	44
70	. *IEEE Transactions on Control of Network Systems*, **2017**, 4, 680-691	4	42
69	Review of Deep Reinforcement Learning for Robot Manipulation **2019**,		39
68	Automated robotic monitoring and inspection of steel structures and bridges. *Robotica*, **2019**, 37, 947-967	2.1	39
67	A distributed control framework for a team of unmanned aerial vehicles for dynamic wildfire tracking **2017**,		31
66	Data analysis and visualization for the bridge deck inspection and evaluation robotic system. *Visualization in Engineering*, **2015**, 3,	3	27

65	Nondestructive evaluation sensor fusion with autonomous robotic system for civil infrastructure inspection. *Journal of Field Robotics*, **2018**, 35, 988-1004	6.7	27
64	Autonomous robotic system for bridge deck data collection and analysis **2014**,		26
63	Flocking control of a mobile sensor network to track and observe a moving target **2009**,		26
62	A Novel Potential Field Controller for Use on Aerial Robots. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2019**, 49, 665-676	7.3	26
61	Extended rapidly exploring random treeBased dynamic path planning and replanning for mobile robots. *International Journal of Advanced Robotic Systems*, **2018**, 15, 172988141877387	1.4	25
60	Autonomous robotic system for high-efficiency non-destructive bridge deck inspection and evaluation **2013**,		25
59	Deep Reinforcement Learning Using Genetic Algorithm for Parameter Optimization **2019**,		24
58	Collaborative and Compressed Mobile Sensing for Data Collection in Distributed Robotic Networks. *IEEE Transactions on Control of Network Systems*, **2018**, 5, 1729-1740	4	23
57	Delamination and concrete quality assessment of concrete bridge decks using a fully autonomous RABIT platform. *Structural Monitoring and Maintenance*, **2015**, 2, 19-34		22
56	Adaptive consensus algorithms for real-time operation of multi-agent systems affected by switching network events. *International Journal of Robust and Nonlinear Control*, **2017**, 27, 1566-1588	3.6	21
55	A Review of SLAM Techniques and Security in Autonomous Driving **2019**,		20
54	Adaptive flocking control for dynamic target tracking in mobile sensor networks **2009**,		19
53	Review of Non-Destructive Civil Infrastructure Evaluation for Bridges: State-of-the-Art Robotic Platforms, Sensors and Algorithms. *Sensors*, **2020**, 20,	3.8	19
52	Dynamic path planning and replanning for mobile robots using RRT **2017**,		17
51	Distributed formation control for autonomous robots following desired shapes in noisy environment **2016**,		17
50	A scalable blockchain based trust management in VANET routing protocol. *Journal of Parallel and Distributed Computing*, **2021**, 152, 144-156	4.4	16
49	Reinforcement Learning for Autonomous UAV Navigation Using Function Approximation **2018**,		15
48	. *IEEE Access*, **2018**, 6, 22976-22986	3.5	14

47	A Smart Shoe for building a real-time 3D map. *Automation in Construction*, **2016**, 71, 2-12	9.6	14
46	Autonomous robotic system using non-destructive evaluation methods for bridge deck inspection **2017**,		14
45	Multi-Agent Motion Control in Cluttered and Noisy Environments. *Journal of Communications*, **2013**, 8, 32-46	0.5	14
44	A Genetic Algorithm for Convolutional Network Structure Optimization for Concrete Crack Detection **2018**,		14
43	. *IEEE Transactions on Human-Machine Systems*, **2016**, 46, 822-833	4.1	13
42	Developing a crack inspection robot for bridge maintenance **2011**,		12
41	Optimal flocking control for a mobile sensor network based a moving target tracking **2009**,		12
40	Automated Rebar Detection for Ground-Penetrating Radar. *Lecture Notes in Computer Science*, **2016**, 815-824	0.9	10
39	Blockchain-Enabled Intelligent Vehicular Edge Computing. *IEEE Network*, **2021**, 35, 125-131	11.4	10
38	Design and implementation of an autonomous robot for steel bridge inspection **2016**,		10
37	Visual and 3D Mapping for Steel Bridge Inspection Using a Climbing Robot **2016**,		9
36	Formation control for autonomous robots with collision and obstacle avoidance using a rotational and repulsive force-based approach. *International Journal of Advanced Robotic Systems*, **2019**, 16, 1729881419847897	1.4	8
35	Compressive and collaborative mobile sensing for scalar field mapping in robotic networks **2015**,		8
34	Visual and Acoustic Data Analysis for the Bridge Deck Inspection Robotic System **2014**,		8
33	Rebar detection and localization for bridge deck inspection and evaluation using deep residual networks. *Automation in Construction*, **2020**, 120, 103393	9.6	8
32	Deep Learning-Based Feature Silencing for Accurate Concrete Crack Detection. *Sensors*, **2020**, 20,	3.8	8
31	Distributed flocking control of mobile robots by bounded feedback **2016**,		8
30	Architecture, Classification, and Applications of Contemporary Unmanned Aerial Vehicles. *IEEE Consumer Electronics Magazine*, **2021**, 1-1	3.2	8

29	Development of a Steel Bridge Climbing Robot **2019**,		7
28	A multi-functional inspection robot for civil infrastructure evaluation and maintenance **2017**,		6
27	Moving targets tracking and observing in a distributed mobile sensor network **2009**,		6
26	Development of a smart wheelchair for people with disabilities **2016**,		6
25	A Climbing Robot for Steel Bridge Inspection. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2021**, 102, 1	2.9	6
24	ParkSense: Automatic Parking Positioning by Leveraging In-Vehicle Magnetic Field Variation. *IEEE Access*, **2017**, 5, 25021-25033	3.5	5
23	Formation Control of Multiple Rectangular Agents with Limited Communication Ranges. *Lecture Notes in Computer Science*, **2014**, 915-924	0.9	5
22	Detection of delamination and rebar debonding in concrete structures with ultrasonic SH-waveform tomography. *Automation in Construction*, **2022**, 133, 104004	9.6	5
21	Decentralized Function Approximated Q-Learning in Multi-Robot Systems For Predator Avoidance. *IEEE Robotics and Automation Letters*, **2020**, 5, 6342-6349	4.2	5
20	Decentralized flocking control with a minority of informed agents **2011**,		4
19	Attenuation-Based Methodology for Condition Assessment of Concrete Bridge Decks Using GPR **2015**,		4
18	A Practical Climbing Robot for Steel Bridge Inspection **2020**,		4
17	Consensus, cooperative learning, and flocking for multiagent predator avoidance. *International Journal of Advanced Robotic Systems*, **2020**, 17,	1.4	4
16	State Estimation For An Agonistic-Antagonistic Muscle System. *Asian Journal of Control*, **2019**, 21, 354-363	1.7	4
15	**2017**,		3
14	Adaptive Flocking Control of Multiple Unmanned Ground Vehicles by Using a UAV. *Lecture Notes in Computer Science*, **2015**, 628-637	0.9	3
13	Robust adaptive control with leakage modification for a nonlinear model of Ionic Polymer Metal Composites (IPMC) **2009**,		3
12	Nonprehensile Manipulation:A Trajectory-Planning Perspective. *IEEE/ASME Transactions on Mechatronics*, **2020**, 1-1	5.5	3

11	Concrete Crack Pixel Classification Using an Encoder Decoder Based Deep Learning Architecture. *Lecture Notes in Computer Science*, **2019**, 593-604	0.9	3
10	Lidar-Monocular Visual Odometry with Genetic Algorithm for Parameter Optimization. *Lecture Notes in Computer Science*, **2019**, 358-370	0.9	3
9	Hindsight Experience Replay With Experience Ranking **2019**,		2
8	A Deep Learning-Based Autonomous Robot Manipulator for Sorting Application **2020**,		2
7	Development of a Smart Shoe for Building a Real-Time 3D Map **2015**,		2
6	**2019**,		2
5	Evaluating the Co-dependence and Co-existence between Religion and Robots: Past, Present and Insights on the Future. *International Journal of Social Robotics*, **2021**, 13, 219-235	4	2
4	Multi-Robot Swarm for Cooperative Scalar Field Mapping **2020**, 208-223		1
3	A Magnetic Wheeled Robot for Steel Bridge Inspection. *Lecture Notes in Networks and Systems*, **2020**, 11-17	0.5	1
2	Special issue on recent advances in field and service robotics: handling harsh environments and cooperation. *Robotica*,1-3	2.1	1
1	Rebar Detection and Localization for Non-destructive Infrastructure Evaluation of Bridges Using Deep Residual Networks. *Lecture Notes in Computer Science*, **2019**, 631-643	0.9	