

# Qing-Hao Meng

## List of Publications by Citations

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111  
papers

881  
citations

16  
h-index

24  
g-index

157  
ext. papers

1,222  
ext. citations

3.4  
avg, IF

4.67  
L-index

#	Paper	IF	Citations
111	Odor source localization using a mobile robot in outdoor airflow environments with a particle filter algorithm. <i>Autonomous Robots</i> , <b>2011</b> , 30, 281-292	3	126
110	Improving histogram-based image contrast enhancement using gray-level information histogram with application to X-ray images. <i>Optik</i> , <b>2012</b> , 123, 511-520	2.5	35
109	Adapting an ant colony metaphor for multi-robot chemical plume tracing. <i>Sensors</i> , <b>2012</b> , 12, 4737-63	3.8	34
108	Collective odor source estimation and search in time-variant airflow environments using mobile robots. <i>Sensors</i> , <b>2011</b> , 11, 10415-43	3.8	33
107	A Bioinspired Neural Network for Data Processing in an Electronic Nose. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2016</b> , 65, 2369-2380	5.2	31
106	Electronic nose with a new feature reduction method and a multi-linear classifier for Chinese liquor classification. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 055004	1.7	27
105	Adaptive extended Kalman filter (AEKF)-based mobile robot localization using sonar. <i>Robotica</i> , <b>2000</b> , 18, 459-473	2.1	24
104	Measurement of sheet resistance of cross microareas using a modified van der Pauw method. <i>Semiconductor Science and Technology</i> , <b>1996</b> , 11, 805-811	1.8	23
103	Development of compact electronic noses: a review. <i>Measurement Science and Technology</i> , <b>2021</b> , 32, 062002	2	23
102	. <i>IEEE Signal Processing Letters</i> , <b>2018</b> , 25, 283-287	3.2	22
101	A New Method Combining KECA-LDA With ELM for Classification of Chinese Liquors Using Electronic Nose. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 8010-8017	4	20
100	A Bio-Inspired Breathing Sampling Electronic Nose for Rapid Detection of Chinese Liquors. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 4689-4698	4	17
99	Odor-induced emotion recognition based on average frequency band division of EEG signals. <i>Journal of Neuroscience Methods</i> , <b>2020</b> , 334, 108599	3	17
98	Real-Time Noncrosstalk Sonar System by Short Optimized Pulse-Position Modulation Sequences. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2009</b> , 58, 3442-3449	5.2	17
97	Simulate the aerodynamic olfactory effects of gas-sensitive UAVs: A numerical model and its parallel implementation. <i>Advances in Engineering Software</i> , <b>2016</b> , 102, 123-133	3.6	17
96	A Wind Estimation Method with an Unmanned Rotorcraft for Environmental Monitoring Tasks. <i>Sensors</i> , <b>2018</b> , 18,	3.8	17
95	Stacked Sparse Auto-Encoders (SSAE) Based Electronic Nose for Chinese Liquors Classification. <i>Sensors</i> , <b>2017</b> , 17,	3.8	15

94	Probability-PSO Algorithm for Multi-robot Based Odor Source Localization in Ventilated Indoor Environments. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 1206-1215	0.9	14
93	Improvement in the accuracy of estimating the time-of-flight in an ultrasonic ranging system using multiple square-root unscented Kalman filters. <i>Review of Scientific Instruments</i> , <b>2010</b> , 81, 104901	1.7	13
92	Distributed least-squares estimation of a remote chemical source via convex combination in wireless sensor networks. <i>Sensors</i> , <b>2014</b> , 14, 11444-66	3.8	12
91	Neural network and fuzzy logic techniques based collision avoidance for a mobile robot. <i>Robotica</i> , <b>1997</b> , 15, 627-632	2.1	12
90	Non-crosstalk real-time ultrasonic range system with optimized chaotic pulse position-width modulation excitation <b>2008</b> ,		12
89	Review of Crosstalk Elimination Methods for Ultrasonic Range Systems in Mobile Robots <b>2006</b> ,		12
88	Recent Progress and Trend of Robot Odor Source Localization. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , <b>2021</b> , 16, 938-953	1	12
87	Data Processing for Multiple Electronic Noses Using Sensor Response Visualization. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 9360-9369	4	12
86	Multivariate multifractal detrended fluctuation analysis of 3D wind field signals. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2018</b> , 490, 513-523	3.3	11
85	A CNN-based simplified data processing method for electronic noses <b>2017</b> ,		10
84	Chemical Source Searching by Controlling a Wheeled Mobile Robot to Follow an Online Planned Route in Outdoor Field Environments. <i>Sensors</i> , <b>2019</b> , 19,	3.8	9
83	Detecting Seizures From EEG Signals Using the Entropy of Visibility Heights of Hierarchical Neighbors. <i>IEEE Access</i> , <b>2019</b> , 7, 7889-7896	3.5	9
82	Source Exploration for an Under-Actuated System: A Control-Theoretic Paradigm. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 1100-1107	4.8	9
81	A Portable Odor-Tracing Instrument. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2016</b> , 65, 631-642	5.2	8
80	An adaptive P300 model for controlling a humanoid robot with mind <b>2013</b> ,		8
79	A Flying Odor Compass to Autonomously Locate the Gas Source. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2017</b> , 1-13	5.2	8
78	Distributed Sequential Location Estimation of a Gas Source via Convex Combination in WSNs. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2016</b> , 65, 1484-1494	5.2	7
77	SSVEP-based hierarchical architecture for control of a humanoid robot with mind <b>2014</b> ,		7

76	Frequency-Hopping Pseudo-Random Pulse Width Modulation to Eliminate Crosstalk of Sonar Sensors in Mobile Robots <b>2006</b> ,		7
75	Odometry based pose determination and errors measurement for a mobile robot with two steerable drive wheels. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2005</b> , 41, 263-282	2.8	7
74	Olfactory EEG Signal Classification Using a Trapezoid Difference-Based Electrode Sequence Hashing Approach. <i>International Journal of Neural Systems</i> , <b>2020</b> , 30, 2050011	6.2	7
73	Temporal-spatial cross-correlation analysis of non-stationary near-surface wind speed time series. <i>Journal of Central South University</i> , <b>2017</b> , 24, 692-698	2.1	6
72	2-D Wind Velocity Measurement Using a Vertically Suspended Optical Fiber Combined With a Photosensor Array. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2017</b> , 66, 2074-2082	5.2	6
71	A multiple-fan active control wind tunnel for outdoor wind speed and direction simulation. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 035108	1.7	6
70	Design of a portable electronic nose for real-fake detection of liquors. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 095001	1.7	6
69	Research on the Effect of Electrical Signals on Growth of Sansevieria under Light-Emitting Diode (LED) Lighting Environment. <i>PLoS ONE</i> , <b>2015</b> , 10, e0131838	3.7	6
68	An OpenViBE-based brainwave control system for Cerebot <b>2013</b> ,		6
67	Mobile robot based odor source localization via particle filter <b>2009</b> ,		6
66	GRP-DNet: A gray recurrence plot-based densely connected convolutional network for classification of epileptiform EEG. <i>Journal of Neuroscience Methods</i> , <b>2021</b> , 347, 108953	3	6
65	Improvement of energy efficiency via spectrum optimization of excitation sequence for multichannel simultaneously triggered airborne sonar system. <i>Review of Scientific Instruments</i> , <b>2009</b> , 80, 124903	1.7	5
64	Mobile Robot based Odor Path Estimation via Dynamic Window Approach <b>2008</b> ,		5
63	A Hand-Held Electronic Nose System for Rapid Identification of Chinese Liquors. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1	5.2	5
62	Using Spike-Based Bio-Inspired Olfactory Model for Data Processing in Electronic Noses. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 692-702	4	5
61	Slow cortical potential signal classification using concave-convex feature. <i>Journal of Neuroscience Methods</i> , <b>2019</b> , 324, 108303	3	4
60	Electronic nose using a bio-inspired neural network modeled on mammalian olfactory system for Chinese liquor classification. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 025001	1.7	4
59	Distributed sequential adaptive weighted localization of a gas-leakage source using a wireless sensor network <b>2013</b> ,		4

58	Asymmetric multiscale multifractal analysis of wind speed signals. <i>International Journal of Modern Physics C</i> , <b>2017</b> , 28, 1750137	1.1	4
57	Mobile robot gas source localization via top-down visual attention mechanism and shape analysis <b>2010</b> ,		4
56	Wall-following by an Autonomously Guided Vehicle (AGV) Using a New Fuzzy-I (Integration) Controller. <i>Robotica</i> , <b>1999</b> , 17, 79-86	2.1	4
55	Community structure detection in complex networks for characterizing atmospheric boundary-layer wind speed time series <b>2016</b> ,		4
54	A Fast Method for Chinese Liquor Recognition <b>2018</b> ,		4
53	Unstructured Road Vanishing Point Detection Using Convolutional Neural Networks and Heatmap Regression. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-8	5.2	4
52	Learning to rapidly re-contact the lost plume in chemical plume tracing. <i>Sensors</i> , <b>2015</b> , 15, 7512-36	3.8	3
51	Localization of multiple odor sources via selective olfaction and adapted ant colony optimization algorithm <b>2013</b> ,		3
50	UAV-based Odor Source Localization in Multi-Building Environments Using Simulated Annealing Algorithm <b>2020</b> ,		3
49	A wind estimation method for quadrotors using inertial measurement units <b>2016</b> ,		3
48	DCCA cross-correlation analysis of 3D wind field signals in indoor and outdoor environments <b>2016</b> ,		3
47	Nonlinear analysis of the near-surface wind speed time series <b>2012</b> ,		2
46	Multi-robot odor-plume tracing in indoor natural airflow environments using an improved ACO algorithm <b>2010</b> ,		2
45	Integrating Perceptual Properties of the HVS into the Computational Model of Visual Attention <b>2009</b> ,		2
44	An estimation-based plume tracing method in time-variant airflow-field via mobile robot <b>2009</b> ,		2
43	A particle filter algorithm for odor source localization in wireless sensor network <b>2011</b> ,		2
42	Hearing based relative localization for mobile robots in outdoor environments <b>2012</b> ,		2
41	Numerical simulation of odor plume in indoor ventilated environments for studying odor source localization with mobile robots <b>2012</b> ,		2

40	Odometry based pose determination and error measurement for a mobile robot with two steerable drive wheels		2
39	Normalizing the polynomial-match for the non-linear signal in transducers. <i>Sensors and Actuators A: Physical</i> , <b>2005</b> , 125, 76-83	3.9	2
38	Safe-Nav: learning to prevent PointGoal navigation failure in unknown environments. <i>Complex &amp; Intelligent Systems</i> ,1	7.1	2
37	D-VPnet: A network for real-time dominant vanishing point detection in natural scenes. <i>Neurocomputing</i> , <b>2020</b> , 417, 432-440	5.4	2
36	3-Dimensional Modeling and Attitude Control of Multi-Joint Autonomous Underwater Vehicles. <i>Journal of Marine Science and Engineering</i> , <b>2021</b> , 9, 307	2.4	2
35	Multi-Sensor Integrated Navigation Algorithm Using Adaptive Federated Kalman Filter for MAVs <b>2018</b> ,		2
34	A Portable E-nose Endowed with Subjective Evaluation Function of Air Quality in Vehicles. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1	5.2	2
33	A gas source declaration scheme based on a tetrahedral sensor structure in three-dimensional airflow environments. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 024104	1.7	1
32	Gas Source Declaration With Tetrahedral Sensing Geometries and Median Value Filtering Extreme Learning Machine. <i>IEEE Access</i> , <b>2020</b> , 8, 7227-7235	3.5	1
31	A portable E-nose system for classification of Chinese liquor <b>2015</b> ,		1
30	Simulation of Outdoor Near-Surface Airflows Based on a Wind Tunnel with Multiple Actively-Controlled Fans. <i>Advanced Materials Research</i> , <b>2013</b> , 807-809, 102-105	0.5	1
29	Non-crosstalk ultrasonic ranging system excited using chaotic sine frequency modulated sequences <b>2011</b> ,		1
28	Multi-robot Based Chemical Plume Tracing with Virtual Odor-Source-Probability Sensor <b>2009</b> ,		1
27	Motion capture and reconstruction based on depth information using Kinect <b>2012</b> ,		1
26	Determination of optimal top-down gains for specific searching tasks <b>2010</b> ,		1
25	A Novel Object Recognition Method for Mobile Robot Localizing a Single Odor/Gas Source in Complex Environments <b>2008</b> ,		1
24	Rapid door-number recognition by a humanoid mobile robot		1
23	Rapid Door Number Recognition by a Humanoid Mobile Robot. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2005</b> , 43, 33-54	2.9	1

22	A triangular hashing learning approach for olfactory EEG signal recognition. <i>Applied Soft Computing Journal</i> , <b>2022</b> , 118, 108471	7.5	1
21	Touch Gesture and Emotion Recognition using Decomposed Spatiotemporal Convolutions. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1	5.2	1
20	Experimental Comparison of Spiral and Zigzag Algorithms for Odor Plume Finding in An Outdoor Natural Airflow Environment. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM</i> , <b>2010</b> , 2010.5, 171-176		1
19	Multiscale entropy analysis of the 3D near-surface wind field <b>2016</b> ,		1
18	Time and frequency domain analysis to plant electrical signal of swallow palm and anthurium under controlled LED environment <b>2016</b> ,		1
17	A numerical model to simulate the aerodynamic olfactory effect of the gas-sensitive UAV <b>2016</b> ,		1
16	An Automatic Detection and Recognition Method for Pointer-type Meters in Natural Gas Stations <b>2019</b> ,		1
15	EEG-Based Odor Recognition Using Channel-Frequency Convolutional Neural Network <b>2019</b> ,		1
14	Design of handheld electronic nose bionic chambers for Chinese liquors recognition. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2021</b> , 172, 108856	4.6	1
13	Touch Gesture Recognition using Spatiotemporal Fusion Features. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1	4	1
12	A Double-Square-Based Electrode Sequence Learning Method for Odor Concentration Identification Using EEG Signals. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1	5.2	1
11	A Small Bionic Sensor Chamber Designed for Hand-Held Electronic Nose <b>2018</b> ,		1
10	Multiscale Complex Network for Analyzing the Wind Field from Different Heights and Seasons* <b>2018</b> ,		1
9	Stereo Vision based Cabin's 6-dimensional Pose Measurement in Docking Process <b>2018</b> ,		1
8	A Voting-Near-Extreme-Learning-Machine Classification Algorithm <b>2018</b> ,		1
7	Latticed mode: A new control strategy for wind field simulation in a multiple-fan wind tunnel. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 085104	1.7	0
6	A Double Triangular Feature-Based Sensor Sequence Coding Approach for Identifying Chinese Liquors Using An E-nose System. <i>IEEE Sensors Journal</i> , <b>2022</b> , 1-1	4	0
5	Uncertainty-driven active view planning in feature-based monocular vSLAM. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 108, 107459	7.5	0

4	Decoding olfactory EEG signals for different odor stimuli identification using wavelet-spatial domain feature. <i>Journal of Neuroscience Methods</i> , <b>2021</b> , 363, 109355	3	○
3	MASS: A multi-source domain adaptation network for cross-subject touch gesture recognition. <i>IEEE Transactions on Industrial Informatics</i> , <b>2022</b> , 1-1	11.9	○
2	Single Gas Source Localization Using A Mobile Sensor Network. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM</i> , <b>2010</b> , 2010.5, 177-182		
1	A novel indoor smell regulation method. <i>AIP Advances</i> , <b>2020</b> , 10, 105226	1.5	