

# Homayoun Najjaran

## List of Publications by Year in Descending Order

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**Version:** 2024-04-29

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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.

86

papers

1,635

citations

20

h-index

38

g-index

98

ext. papers

2,165

ext. citations

5

avg, IF

5.17

L-index

#	Paper	IF	Citations
86	Intelligent manufacturing execution systems: A systematic review. <i>Journal of Manufacturing Systems</i> , <b>2022</b> , 62, 503-522	9.1	5
85	Extending the Capabilities of Reinforcement Learning Through Curriculum: A Review of Methods and Applications. <i>SN Computer Science</i> , <b>2022</b> , 3, 1	2	1
84	Comprehensive review of conventional and state-of-the-art detection methods of Cryptosporidium. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 421, 126714	12.8	4
83	A Survey of Robot Learning Strategies for Human-Robot Collaboration in Industrial Settings. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2022</b> , 73, 102231	9.2	17
82	On-chip-based electrochemical biosensor for the sensitive and label-free detection of Cryptosporidium.. <i>Scientific Reports</i> , <b>2022</b> , 12, 6957	4.9	2
81	Portable on-chip colorimetric biosensing platform integrated with a smartphone for label/PCR-free detection of Cryptosporidium RNA. <i>Scientific Reports</i> , <b>2021</b> , 11, 23192	4.9	1
80	Global tracking control of quadrotor based on adaptive dynamic surface control. <i>International Journal of Dynamics and Control</i> , <b>2021</b> , 9, 240-256	1.7	1
79	Classification and Regression of Binary Hydrocarbon Mixtures using Single Metal Oxide Semiconductor Sensor With Application to Natural Gas Detection. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 326, 129012	8.5	10
78	Micron-sized particle separation with standing surface acoustic wave-Experimental and numerical approaches. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 76, 105651	8.9	3
77	End-to-end 3D object model retrieval by projecting the point cloud onto a unique discriminating 2D view. <i>Neurocomputing</i> , <b>2020</b> , 402, 336-345	5.4	4
76	High Throughput Screening of Cell Mechanical Response Using a Stretchable 3D Cellular Microarray Platform. <i>Small</i> , <b>2020</b> , 16, e2000941	11	11
75	Fabrication of SnO Composite Nanofiber-Based Gas Sensor using the Electrospinning Method for Tetrahydrocannabinol (THC) Detection. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	5
74	Robot-Assisted Composite Manufacturing Based on Machine Learning Applied to Multi-view Computer Vision. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 199-211	0.9	1
73	Low-Cost Graphene-Based Digital Microfluidic System. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	1
72	Parametric study on the geometrical parameters of a lab-on-a-chip platform with tilted planar electrodes for continuous dielectrophoretic manipulation of microparticles. <i>Scientific Reports</i> , <b>2020</b> , 10, 11718	4.9	11
71	Deep Learning Sensor Fusion for Autonomous Vehicle Perception and Localization: A Review. <i>Sensors</i> , <b>2020</b> , 20,	3.8	67
70	Detecting 6D Poses of Target Objects From Cluttered Scenes by Learning to Align the Point Cloud Patches With the CAD Models. <i>IEEE Access</i> , <b>2020</b> , 8, 210640-210650	3.5	4

69	Graphene-Coated Spandex Sensors Embedded into Silicone Sheath for Composites Health Monitoring and Wearable Applications. <i>Small</i> , <b>2019</b> , 15, e1804991	11	54
68	Wrinkle and boundary detection of fiber products in robotic composites manufacturing. <i>Assembly Automation</i> , <b>2019</b> , 40, 283-291	2.1	2
67	A Nanostructured Microfluidic Artificial Olfaction for Organic Vapors Recognition. <i>Scientific Reports</i> , <b>2019</b> , 9, 19051	4.9	8
66	Label-Free Capacitive Biosensor for Detection of. <i>Sensors</i> , <b>2019</b> , 19,	3.8	27
65	Autonomous vehicle perception: The technology of today and tomorrow. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2018</b> , 89, 384-406	8.4	236
64	Low-cost ultra-stretchable strain sensors for monitoring human motion and bio-signals. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 271, 182-191	3.9	53
63	Mixed adaptive control architecture for a novel coaxial-ducted-fan aircraft under time-varying uncertainties. <i>Aerospace Science and Technology</i> , <b>2018</b> , 76, 141-154	4.9	10
62	Digital Microfluidic Systems: Fundamentals, Configurations, Techniques, and Applications <b>2018</b> , 175-209		1
61	Robust adaptive fault-tolerant control of a tandem coaxial ducted fan aircraft with actuator saturation. <i>Chinese Journal of Aeronautics</i> , <b>2018</b> , 31, 1298-1310	3.7	16
60	Precision landing using an adaptive fuzzy multi-sensor data fusion architecture. <i>Applied Soft Computing Journal</i> , <b>2018</b> , 69, 149-164	7.5	24
59	SliceNet: A proficient model for real-time 3D shape-based recognition. <i>Neurocomputing</i> , <b>2018</b> , 316, 144-155	5.5	12
58	Vision-based deformation and wrinkle detection for semi-finished fiber products on curved surfaces <b>2018</b> ,		3
57	Multi-Criteria Decision Making for Autonomous Vehicles using Fuzzy Dempster-Shafer Reasoning <b>2018</b> ,		4
56	A review of quadrotor: An underactuated mechanical system. <i>Annual Reviews in Control</i> , <b>2018</b> , 46, 165-180.	3	48
55	Real-time visual tracking via robust Kernelized Correlation Filter <b>2017</b> ,		5
54	Robust and adaptive control of a novel ducted fan vehicle in the presence of actuator uncertainties and saturation <b>2017</b> ,		1
53	3D object classification with point convolution network <b>2017</b> ,		3
52	Adaptive neural network control of quadrotor system under the presence of actuator constraints <b>2017</b> ,		3

51	Adaptive motion planning for terrain following quadrotors <b>2017</b> ,		1
50	3D Printing-Based Integrated Water Quality Sensing System. <i>Sensors</i> , <b>2017</b> , 17,	3.8	17
49	INS/GPS localization for reliable cooperative driving <b>2016</b> ,		2
48	Integration of biosensors into digital microfluidics: Impact of hydrophilic surface of biosensors on droplet manipulation. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 81, 480-486	11.8	31
47	Control of artificial human finger using wearable device and adaptive network-based fuzzy inference system <b>2016</b> ,		3
46	Integrated Decision Support System for Prognostic and Diagnostic Analyses of Water Distribution System Failures. <i>Water Resources Management</i> , <b>2016</b> , 30, 2831-2850	3.7	8
45	Ultra-Portable Smartphone Controlled Integrated Digital Microfluidic System in a 3D-Printed Modular Assembly. <i>Micromachines</i> , <b>2015</b> , 6, 1289-1305	3.3	20
44	Microfluidics Integrated Biosensors: A Leading Technology towards Lab-on-a-Chip and Sensing Applications. <i>Sensors</i> , <b>2015</b> , 15, 30011-31	3.8	273
43	Droplet Necking and Morphology Variations Induced by Changing the Gap Height During Transport in Digital Microfluidic Systems. <i>Journal of Microelectromechanical Systems</i> , <b>2015</b> , 24, 1647-1658	2.5	4
42	Multi-level information fusion for spatiotemporal monitoring in water distribution networks. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 3813-3831	7.8	6
41	Adaptive on-line similarity measure for direct visual tracking. <i>Image and Vision Computing</i> , <b>2014</b> , 32, 227-236	3.7	1
40	Comparative study of fuzzy evidential reasoning and fuzzy rule-based approaches: an illustration for water quality assessment in distribution networks. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2014</b> , 28, 655-679	3.5	17
39	Miniaturized water quality monitoring pH and conductivity sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 193, 434-441	8.5	52
38	Online Drinking Water Quality Monitoring: Review on Available and Emerging Technologies. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2014</b> , 44, 1370-1421	11.1	72
37	Unscented model predictive control of chance constrained nonlinear systems. <i>Advanced Robotics</i> , <b>2014</b> , 28, 257-267	1.7	1
36	Efficient and robust multi-template tracking using multi-start interactive hybrid search. <i>Computer Vision and Image Understanding</i> , <b>2014</b> , 120, 70-80	4.3	1
35	A Motion Planning Scheme for Automated Wildfire Suppression <b>2014</b> ,		3
34	Reliability Assessment for Water Supply Systems under Uncertainties. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2014</b> , 140, 468-479	2.8	38

33	Water distribution system failure: a framework for forensic analysis. <i>Environment Systems and Decisions</i> , <b>2014</b> , 34, 168-179	4.1	7
32	High precision control of gap height for enhancing principal digital microfluidics operations. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 186, 343-352	8.5	19
31	An integrated robust probing motion planning and control scheme: A tube-based MPC approach. <i>Robotics and Autonomous Systems</i> , <b>2013</b> , 61, 1379-1391	3.5	16
30	Evaluating Water Quality Failure Potential in Water Distribution Systems: A Fuzzy-TOPSIS-OWA-based Methodology. <i>Water Resources Management</i> , <b>2013</b> , 27, 2195-2216	3.7	28
29	A fuzzy rule-based approach for water quality assessment in the distribution network <b>2013</b> ,		2
28	Networked fuzzy belief rule-based system for spatiotemporal monitoring <b>2013</b> ,		1
27	A teaching tool for the state-of-the-art probabilistic methods used in localization of mobile robots. <i>Computer Applications in Engineering Education</i> , <b>2012</b> , 20, 721-727	1.6	
26	Online monitoring of drinking water quality in a distribution network: a selection procedure for suitable water quality parameters and sensor devices. <i>International Journal of Systems Assurance Engineering and Management</i> , <b>2012</b> , 3, 323-337	1.3	9
25	Robust decentralized multi-model adaptive template tracking. <i>Pattern Recognition</i> , <b>2012</b> , 45, 4494-4509	7.7	3
24	Capacitance-based droplet position estimator for digital microfluidic devices. <i>Lab on A Chip</i> , <b>2012</b> , 12, 2053-9	7.2	45
23	Droplet sensing by measuring the capacitance between coplanar electrodes in a digital microfluidic system. <i>Lab on A Chip</i> , <b>2012</b> , 12, 4416-23	7.2	19
22	The EMPATHY MACHINE <b>2012</b> ,		4
21	Multicriteria information fusion using a fuzzy evidential rule-based framework <b>2012</b> ,		1
20	Direct current pulse train actuation to enhance droplet control in digital microfluidics. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 144102	3.4	7
19	Interval belief structure rule-based system using extended fuzzy Dempster-Shafer inference <b>2011</b> ,		5
18	Electrohydrodynamic modeling of microdroplet transient dynamics in electrocapillary-based digital microfluidic devices. <i>Microfluidics and Nanofluidics</i> , <b>2011</b> , 10, 1019-1032	2.8	13
17	Evidential reasoning using extended fuzzy Dempster-Shafer theory for handling various facets of information deficiency. <i>International Journal of Intelligent Systems</i> , <b>2011</b> , 26, 731-758	8.4	17
16	Leakage detection and location in water distribution systems using a fuzzy-based methodology. <i>Urban Water Journal</i> , <b>2011</b> , 8, 351-365	2.3	41

15	Exploring the Relationship between Soil Properties and Deterioration of Metallic Pipes Using Predictive Data Mining Methods. <i>Journal of Computing in Civil Engineering</i> , <b>2010</b> , 24, 289-301	5	22
14	A higher order Rao-Blackwellized particle filter for monocular vSLAM <b>2010</b> ,		5
13	Monocular vSLAM using a novel Rao-Blackwellized particle filter <b>2010</b> ,		1
12	Simulation of Droplet Position Control in Digital Microfluidic Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2010</b> , 132,	1.6	6
11	In situ characterization of microdroplet interfacial properties in digital microfluidic systems. <i>Lab on A Chip</i> , <b>2010</b> , 10, 1429-35	7.2	24
10	Droplet position control in digital microfluidic systems. <i>Biomedical Microdevices</i> , <b>2010</b> , 12, 115-24	3.7	13
9	In situ digital microfluidic conductance sampling. <i>Sensors and Actuators A: Physical</i> , <b>2009</b> , 152, 13-20	3.9	2
8	Processing laser range image for the investigation on the long-term performance of ductile iron pipe. <i>Nondestructive Testing and Evaluation</i> , <b>2008</b> , 23, 65-75	2	4
7	Condition Assessment of Buried Pipes Using Hierarchical Evidential Reasoning Model. <i>Journal of Computing in Civil Engineering</i> , <b>2008</b> , 22, 114-122	5	17
6	Real-time motion planning of an autonomous mobile manipulator using a fuzzy adaptive Kalman filter. <i>Robotics and Autonomous Systems</i> , <b>2007</b> , 55, 96-106	3.5	18
5	Communicating human health risks associated with disinfection by-products in drinking water supplies: a fuzzy-based approach. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2007</b> , 21, 341-353	3.5	30
4	Development of Visual Simultaneous Localization and Mapping (VSLAM) for a Pipe Inspection Robot <b>2007</b> ,		18
3	Investigating evidential reasoning for the interpretation of microbial water quality in a distribution network. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2006</b> , 21, 63-73	3.5	26
2	3DCADfusion: Tracking and 3D Reconstruction of Dynamic Objects without External Motion Information		
1	Automated visual detection of geometrical defects in composite manufacturing processes using deep convolutional neural networks. <i>Journal of Intelligent Manufacturing</i> , 1	6.7	0