

# Maki K Habib

## List of Publications by Year in descending order

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Version: 2024-02-01

89  
papers

1,194  
citations

567281

15  
h-index

454955

30  
g-index

90  
all docs

90  
docs citations

90  
times ranked

975  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards a core ontology for robotics and automation. Robotics and Autonomous Systems, 2013, 61, 1193-1204.	5.1	181
2	Applied ontologies and standards for service robots. Robotics and Autonomous Systems, 2013, 61, 1215-1223.	5.1	88
3	Controlled biological and biomimetic systems for landmine detection. Biosensors and Bioelectronics, 2007, 23, 1-18.	10.1	72
4	Mechatronics - A unifying interdisciplinary and intelligent engineering science paradigm. IEEE Industrial Electronics Magazine, 2007, 1, 12-24.	2.6	68
5	A review and comparison of ontology-based approaches to robot autonomy. Knowledge Engineering Review, 2019, 34, .	2.6	58
6	Biomimetics: innovations and robotics. International Journal of Mechatronics and Manufacturing Systems, 2011, 4, 113.	0.1	57
7	Central pattern generators based on Matsuoka oscillators for the locomotion of biped robots. Artificial Life and Robotics, 2008, 12, 264-269.	1.2	56
8	Humanitarian Demining: Reality and the Challenge of Technology â€œ The State of the Arts. International Journal of Advanced Robotic Systems, 2007, 4, 19.	2.1	50
9	Ontology for autonomous robotics. , 2017, , .		38
10	Biomimetics Robots From Bio-inspiration to Implementation. , 2007, , .		33
11	Behavior Selection Based Navigation and Obstacle Avoidance Approach Using Visual and Ultrasonic Sensory Information for Quadruped Robots. International Journal of Advanced Robotic Systems, 2008, 5, 41.	2.1	32
12	Development of CAM system based on industrial robotic servo controller without using robot language. Robotics and Computer-Integrated Manufacturing, 2013, 29, 454-462.	9.9	32
13	Mechatronics Engineering The Evolution, the Needs and the Challenges. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	31
14	Real Time Mapping and Dynamic Navigation for Mobile Robots. International Journal of Advanced Robotic Systems, 2007, 4, 35.	2.1	24
15	Interdisciplinary Mechatronics engineering and science: problem-solving, creative-thinking and concurrent design synergy. International Journal of Mechatronics and Manufacturing Systems, 2008, 1, 4.	0.1	24
16	Towards an Ontology for Autonomous Robots. , 2012, , .		22
17	Robot-Assisted Risky Intervention, Search, Rescue and Environmental Surveillance. International Journal of Advanced Robotic Systems, 2010, 7, 10.	2.1	20
18	How to describe the mobile robot's sensor-based behavior?. Robotics and Autonomous Systems, 1991, 7, 227-237.	5.1	17

#	ARTICLE	IF	CITATIONS
19	Ontological concepts for information sharing in cloud robotics. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 4921-4932.	4.9	17
20	Mechatronics: Experiential Learning and the Stimulation of Thinking Skills. <i>Education Sciences</i> , 2021, 11, 46.	2.6	17
21	Human adaptive and friendly mechatronics (HAFM). , 2008, , .		16
22	Basic performance of a desktop NC machine tool with compliant motion capability. , 2008, , .		15
23	Biped locomotion using CPG with sensory interaction. , 2009, , .		14
24	Fiber-Grating-Based Vision System for Real-Time Tracking, Monitoring, and Obstacle Detection. <i>IEEE Sensors Journal</i> , 2007, 7, 105-121.	4.7	13
25	Defect detection method using deep convolutional neural network, support vector machine and template matching techniques. <i>Artificial Life and Robotics</i> , 2019, 24, 512-519.	1.2	13
26	Trajectory tracking of a quadcopter flying vehicle using sliding mode control. , 2017, , .		11
27	Robotized Early Plant Health Monitoring System. , 2018, , .		11
28	Robust sensor fault reconstruction applied in real-time to an inverted pendulum. <i>Mechatronics</i> , 2007, 17, 368-380.	3.3	10
29	An emotion-based task sharing approach for a cooperative multiagent robotic system. , 2008, , .		10
30	A new approach to generate fixed-polarity Reed-Muller expansions for completely and incompletely specified functions. <i>International Journal of Electronics</i> , 2002, 89, 845-876.	1.4	9
31	Humanitarian demining: Difficulties, needs and the prospect of technology. , 2008, , .		9
32	Desktop orthogonal-type robot with abilities of compliant motion and stick-slip motion for lapping of LED lens molds. , 2010, , .		8
33	Humanitarian demining mine detection and sensors. , 2011, , .		7
34	A proposal of experimental education system of mechatronics. <i>Artificial Life and Robotics</i> , 2013, 17, 378-382.	1.2	7
35	Distributed teleoperation and collaborative environment for robotics E-learning and cooperation. , 2008, , .		6
36	Bioinspiration and emerging actuator technologies. <i>Artificial Life and Robotics</i> , 2012, 17, 191-196.	1.2	6

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37	iOS application for quadrotor remote control. <i>Artificial Life and Robotics</i> , 2017, 22, 374-379.	1.2	6
38	Detection of minute defects using transfer learning-based CNN models. <i>Artificial Life and Robotics</i> , 2021, 26, 35-41.	1.2	6
39	Efficient on-line path planning algorithm and navigation for a mobile robot. <i>International Journal of Electronics</i> , 1990, 69, 187-210.	1.4	5
40	The development of a fault-tolerant control approach and its implementation on a flexible arm robot. <i>Advanced Robotics</i> , 2007, 21, 887-904.	1.8	5
41	CAD/CAM-based force controller using a neural network-based effective stiffness estimator. <i>Artificial Life and Robotics</i> , 2010, 15, 101-105.	1.2	5
42	Development of Autonomous Networked Robots (ANR) for Surveillance: Conceptual Design and Requirements. , 2018, , .		5
43	Visual feedback control of quadrotor by object detection in movies. <i>Artificial Life and Robotics</i> , 2020, 25, 488-494.	1.2	4
44	Defect detection in wrap film product using compact convolutional neural network. <i>Artificial Life and Robotics</i> , 2021, 26, 360-366.	1.2	4
45	Pick and Place Robot Using Visual Feedback Control and Transfer Learning-Based CNN. , 2020, , .		4
46	Efficient and fast algorithm to generate minimal Reed-Muller Exclusive-OR expansions with mixed polarity for completely and incompletely specified functions and its computer implementation. <i>Computers and Electrical Engineering</i> , 1993, 19, 193-211.	4.8	3
47	Multiple mobile robots system with network-based subsumption architecture. <i>International Journal of Mechatronics and Manufacturing Systems</i> , 2013, 6, 57.	0.1	3
48	Development of post-processor approach for an industrial robot FANUC R2000iC. <i>Artificial Life and Robotics</i> , 2018, 23, 186-191.	1.2	3
49	Design and implementation of convolutional neural network-based SVM technique for manufacturing defect detection. <i>International Journal of Mechatronics and Automation</i> , 2021, 8, 53.	0.2	3
50	Function minimization using Boolean matrices. <i>International Journal of Electronics</i> , 1988, 64, 903-911.	1.4	2
51	Telecooperation Through Shared & Integrated Collaborative and Distributed Intelligent Environments Supporting Mixed Realities. , 2006, , .		2
52	Development of robot and navigation techniques for humanitarian demining. , 2008, , .		2
53	Visual evaluation and fuzzy voice commands for controlling a robot manipulator. <i>International Journal of Mechatronics and Manufacturing Systems</i> , 2010, 3, 244.	0.1	2
54	Vibrational motion control for foamed polystyrene machining robot and extraction of radius of curvature for fuzzy feed rate control. <i>Artificial Life and Robotics</i> , 2015, 20, 197-202.	1.2	2

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55	Development of a camera-mounted tethered Quadrotor for inspecting infrastructures. , 2016, , .		2
56	Design Application of Deep Convolutional Neural Network for Vision-Based Defect Inspection. , 2018, , .		2
57	Nonlinear Robust Control of a Quadcopter: Implementation and Evaluation. , 2018, , .		2
58	Molded article picking robot using image processing technique and pixel-based visual feedback control. Artificial Life and Robotics, 2021, 26, 390.	1.2	2
59	Tolerance Towards Sensor Faults: An Application to a Flexible Arm Manipulator. International Journal of Advanced Robotic Systems, 2006, 3, 46.	2.1	2
60	Dynamic Modeling and Control Techniques for a Quadrotor. , 2019, , 20-66.		2
61	New approach for the generation of minimal Reed-Muller Exclusive-OR expansions with mixed polarity. International Journal of Electronics, 1989, 66, 865-874.	1.4	1
62	Intelligent Sensor System for Real Time Tracking and Monitoring. , 2006, , .		1
63	Decompose the operational space of FG vision system into parallel virtual planes to support autonomous navigation in dynamic environment. , 2009, , .		1
64	Impedance model force control using neural networks for a desktop NC machine tool. , 2009, , .		1
65	Robotics for Risky Interventions and Environmental Surveillance. International Journal of Advanced Robotic Systems, 2010, 7, 11.	2.1	1
66	Mechatronics education systems through sensing and control design. , 2013, , .		1
67	A forming algorithm and its position estimation for triangle-based robot formation. International Journal of Mechatronics and Manufacturing Systems, 2013, 6, 38.	0.1	1
68	Viewer, converter and preprocessor for smart machining process using an industrial robot. Artificial Life and Robotics, 2016, 21, 332-337.	1.2	1
69	Curved surface fitting using a raster-scanning window for smoothing PCD. , 2017, , .		1
70	Outline Font Handler for Industrial Robots. , 2018, , .		1
71	Acoustic-to-Seismic Waves Coupling Techniques for Landmine Detection. Sensor Letters, 2007, 5, 500-515.	0.4	1
72	Robotic CAM System Available for Both CL Data and NC Data. Advances in Mechatronics and Mechanical Engineering, 2013, , 265-276.	1.0	1

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73	Biomimetics and the Evolution of Robotics and Intelligent Systems. Advances in Computational Intelligence and Robotics Book Series, 2018, , 1-25.	0.4	1
74	Mechatronics: Experiential Education and Project Based Learning. , 2020, , .		1
75	New language structure for sensor-based actions to describe the real-time behaviour of autonomous robots. International Journal of Electronics, 1991, 70, 653-670.	1.4	0
76	CPG based control for generating stable bipedal trajectories under external perturbation. , 2007, , .		0
77	Real time monitoring and avoidance using FG based 3D vision system. , 2009, , .		0
78	Position-based impedance control using inner servo system and its application to a desktop NC machine tool. International Journal of Mechatronics and Manufacturing Systems, 2010, 3, 168.	0.1	0
79	Stick-slip motion control based on cutter location data for an orthogonal-type robot. Artificial Life and Robotics, 2010, 15, 106-110.	1.2	0
80	Biologically Inspired Robotics 2016. Journal of Robotics, 2018, 2018, 1-2.	0.9	0
81	AUTOMATIC TOOL TRUING FOR AN LED LENS CAVITY LAPPING SYSTEM. International Journal of Robotics and Automation, 2011, 26, .	0.1	0
82	Self Control and Server-Supervisory Control for Multiple Mobile Robots, and its Applicability to Intelligent DNC System. Advances in Mechatronics and Mechanical Engineering, 2012, , 67-84.	1.0	0
83	Industrial Machining Robot with Incorporated Robotic CAM System. Advances in Computational Intelligence and Robotics Book Series, 2015, , 793-817.	0.4	0
84	Dynamic Modeling and Control Techniques for a Quadrotor. Advances in Computational Intelligence and Robotics Book Series, 2015, , 408-454.	0.4	0
85	Neural Networks to Solve Nonlinear Inverse Kinematic Problems. Advances in Computational Intelligence and Robotics Book Series, 2018, , 205-227.	0.4	0
86	Robotics E-Learning Supported by Collaborative and Distributed Intelligent Environments. Advances in Educational Technologies and Instructional Design Book Series, 2020, , 97-113.	0.2	0
87	Development of Robotic CAM System That Generates Online Motion Supported by CLS and NC Data. Advances in Computational Intelligence and Robotics Book Series, 2020, , 1-27.	0.4	0
88	An Efficient Learning of Neural Networks to Acquire Inverse Kinematics Model. Advances in Computational Intelligence and Robotics Book Series, 2020, , 203-232.	0.4	0
89	Visual Feedback Control Through Real-Time Movie Frames for Quadcopter With Object Count Function and Pick-and-Place Robot With Orientation Estimator. Advances in Computational Intelligence and Robotics Book Series, 2022, , 99-116.	0.4	0