Tarek M Sobh

List of Publications by Year
in descending order

155 papers	1,358 citations	516215 16 h-index	454577 30 g-index
166 all docs	166 docs citations	166 times ranked	1188 citing authors

#	Article	IF	Citations
1	GNSS-Based Attitude Determination Techniquesâ€"A Comprehensive Literature Survey. IEEE Access, 2020, 8, 24873-24886.	2.6	18
2	A robomech class parallel manipulator with three degrees of freedom. Eastern-European Journal of Enterprise Technologies, 2020, 3, 44-56.	0.3	2
3	Structurally Parametric Synthesis of a RoboMech Class Parallel Manipulator with Three DOF. Mechanisms and Machine Science, 2020, , 371-379.	0.3	0
4	Stiction Fault in MEMS Comb Drive Resonator. , 2020, , .		0
5	Application of Image-Based Visual Servoing on Autonomous Drones. , 2020, , .		4
6	Evolutionary Modular Robotics: Survey and Analysis. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 95, 815-828.	2.0	49
7	Hybrid Robot-as-a-Service (RaaS) Platform (Using MQTT and CoAP). , 2019, , .		9
8	A Robust Robotic Disassembly Sequence Design Using Orthogonal Arrays and Task Allocation. Robotics, 2019, 8, 20.	2.1	16
9	Identity management using SAML for mobile clients and Internet of Things. Journal of High Speed Networks, 2019, 25, 101-126.	0.6	4
10	A Decision Maker-Centered End-of-Life Product Recovery System for Robot Task Sequencing. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 91, 603-616.	2.0	15
11	Task-Based Design of Modular Robots: Evolutionary Approach. , 2018, , .		1
12	Analytical Method for Determination of Internal Forces of Mechanisms and Manipulators. Robotics, 2018, 7, 53.	2.1	2
13	Unsupervised face recognition in the wild using high-dimensional features under super-resolution and 3D alignment effect. Signal, Image and Video Processing, 2018, 12, 1353-1360.	1.7	3
14	A dynamic model for GPS based attitude determination and testing using a serial robotic manipulator. Journal of Advanced Research, 2017, 8, 333-341.	4.4	5
15	A novel neurophysiological based navigation system. Biologically Inspired Cognitive Architectures, 2017, 22, 67-81.	0.9	1
16	An Optimal and Energy Efficient Multi-Sensor Collision-Free Path Planning Algorithm for a Mobile Robot in Dynamic Environments. Robotics, 2017, 6, 7.	2.1	8
17	Effect of Super Resolution on High Dimensional Features for Unsupervised Face Recognition in the Wild. , 2017, , .		11
18	Review of Neurobiologically Based Mobile Robot Navigation System Research Performed Since 2000. Journal of Robotics, 2016, 2016, 1-17.	0.6	17

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19	Deployment Environment for a Swarm of Heterogeneous Robots. Robotics, 2016, 5, 22.	2.1	2
20	Coordinating a heterogeneous robot swarm using Robot Utility-based Task Assignment (RUTA). , 2016, , .		11
21	Using an FPGA to emulate grid cell spatial cognition in a mobile robot. , 2016, , .		0
22	Evaluation of ASHFIK as Core-Based Routing Protocol for Critical MANETs. Wireless Personal Communications, 2016, 87, 1191-1208.	1.8	1
23	UB robot swarm â€" Design, implementation, and power management. , 2016, , .		7
24	Disassembly Sequencing Using Tabu Search. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 82, 69-79.	2.0	60
25	Hardware Architecture Review of Swarm Robotics System: Self Reconfigurability, Self Reassembly and Self Replication. Lecture Notes in Electrical Engineering, 2015, , 433-444.	0.3	2
26	Using task descriptions for designing optimal task specific manipulators. , 2015, , .		1
27	An Enhanced Communication Protocol for Anonymity and Location Privacy in WSN. , 2015, , .		11
28	Temporal privacy scheme for end-to-end location privacy in wireless sensor networks. , 2015, , .		0
29	Fortified Anonymous Communication Protocol for Location Privacy in WSN: A Modular Approach. Sensors, 2015, 15, 5820-5864.	2.1	16
30	Task based synthesis of serial manipulators. Journal of Advanced Research, 2015, 6, 479-492.	4.4	22
31	Unsupervised Sub-graph Selection and Its Application in Face Recognition Techniques. Lecture Notes in Computer Science, 2015, , 247-256.	1.0	2
32	New Trends in Networking, Computing, E-learning, Systems Sciences, and Engineering. Lecture Notes in Electrical Engineering, 2015, , .	0.3	8
33	Manipulator Performance Measures - A Comprehensive Literature Survey. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 77, 547-570.	2.0	181
34	Survey on Decentralized Modular Robots and Control Platforms. Lecture Notes in Electrical Engineering, 2015, , 165-175.	0.3	1
35	An Enhanced Communication Protocol for Location Privacy in WSN. International Journal of Distributed Sensor Networks, 2015, 11, 697098.	1.3	3
36	Advances in Intelligent Robotics and Collaborative Automation. , 2015, , 1-364.		4

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37	An efficient and dependable protocol for critical MANETs. Journal of High Speed Networks, 2014, 20, 153-168.	0.6	4
38	Modular Design: A Plug and Play Approach to Sensory Modules, Actuation Platforms, and Task Descriptions for Robotics and Automation Applications. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 75, 271-289.	2.0	2
39	Goal directed design of serial robotic manipulators. , 2014, , .		3
40	Hybrid Swarm Intelligence and Artificial Neural Network for Mitigating Malware Effects. Recent Patents on Computer Science, 2014, 7, 38-53.	0.5	0
41	A Structured Approach for Modular Design in Robotics and Automation Environments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 72, 5-19.	2.0	5
42	Emerging Trends in Computing, Informatics, Systems Sciences, and Engineering. Lecture Notes in Electrical Engineering, 2013, , .	0.3	6
43	The proposed PhD in Technology Management at the University of Bridgeport: a case study. International Journal of Information and Operations Management Education, 2013, 5, 172.	0.2	0
44	Hardware Architecture Review of Swarm Robotics System: Self-Reconfigurability, Self-Reassembly, and Self-Replication. ISRN Robotics, 2013, 2013, 1-11.	1.3	15
45	Innovations and Advances in Computer, Information, Systems Sciences, and Engineering. Lecture Notes in Electrical Engineering, 2013, , .	0.3	3
46	Using Hash Table to Extract Real-Time Online Network Traffic Features for Hardware IDS. Information Security Journal, 2012, 21, 55-63.	1.3	1
47	A Robotic-Driven Disassembly Sequence Generator for End-Of-Life Electronic Products. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 68, 43-52.	2.0	86
48	Robotics Middleware: A Comprehensive Literature Survey and Attribute-Based Bibliography. Journal of Robotics, 2012, 2012, 1-15.	0.6	131
49	Design and Implementation of Wireless Camera, Communication, and Control Modules for a Transformable Unmanned Aerial Vehicle. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 66, 401-414.	2.0	0
50	Integration of Vision System, Intelligent ROBO Actuator, HMI and PLC to Design a Universal Quality Inspection or Control Machine. I-manager's Journal on Mechanical Engineering, 2012, 2, 5-14.	0.4	1
51	Optimal Design of Three-Link Planar Manipulators Using Grashof's Criterion. Advances in Computational Intelligence and Robotics Book Series, 2012, , 70-83.	0.4	5
52	A Plug and Play Middleware for Sensory Modules, Actuation Platforms and Task Descriptions in Robotic Manipulation Platforms. , 2011, , .		4
53	An Online Genetic Algorithm for Automated Disassembly Sequence Generation. , 2011, , .		10
54	Modular Design and Implementation for a Sensory-Driven Mobile Manipulation Framework. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 62, 355-381.	2.0	5

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55	A cooperative immunological approach for detecting network anomaly. Applied Soft Computing Journal, 2011, 11, 1275-1283.	4.1	25
56	A New Algorithm for Measuring and Optimizing the Manipulability Index. Journal of Intelligent and Robotic Systems: Theory and Applications, 2010, 59, 75-86.	2.0	19
57	Modeling A Deburring Process, Using DELMIA V5Â®. , 2010, , 549-558.		2
58	Innovations in Computing Sciences and Software Engineering. , 2010, , .		12
59	Technological Developments in Networking, Education and Automation. , 2010, , .		7
60	A Novel Optimization of the Distance Source Routing (DSR) Protocol for the Mobile Ad Hoc Networks (MANET). , 2010, , 269-274.		0
61	Interdisciplinary Automation and Control in a Programmable Logic Controller (PLC) Laboratory. , 2010, , 175-180.		0
62	Innovations and Advances in Computer Sciences and Engineering. , 2010, , .		7
63	Modular Design and Structure for a Mobile Sensory Platform. , 2010, , 433-441.		2
64	Intelligent Behaviour Modelling and Control for Mobile Manipulators. Computer Communications and Networks, 2009, , 29-46.	0.8	0
65	A New Algorithm for Measuring and Optimizing the Manipulability Index. International Journal of Advanced Robotic Systems, 2009, 6, 9.	1.3	6
66	Web-Based Control of Mobile Manipulation Platforms via Sensor Fusion. , 2009, , 297-312.		2
67	Recent Directions in Remote Engineering and Virtual Instrumentation. International Journal of Online and Biomedical Engineering, 2009, 5, 4.	0.9	0
68	USING GRAPHEME n-GRAMS IN SPELLING CORRECTION AND AUGMENTATIVE TYPING SYSTEMS. New Mathematics and Natural Computation, 2008, 04, 87-106.	0.4	2
69	Advances in Computer and Information Sciences and Engineering. , 2008, , .		13
70	New Concept In Optimizing Manipulability Index Of Serial Manipulators Using SVD Method. , 2008, , 186-191.		2
71	On-line Virtual Real-Time E-Collaboration: An Innovative Case Study on Research Teleconferencing Management. International Journal of Online Engineering, 2008, 4, .	0.5	0
72	On-line Virtual Real-Time E-Collaboration: An Innovative Case Study on Engineering Research Teleconferencing Management. , 2008, , 586-591.		0

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73	Innovations and Advanced Techniques in Computer and Information Sciences and Engineering. , 2007, , .		7
74	RISCBOT: A WWW-Enabled Mobile Surveillance and Identification Robot. Journal of Intelligent and Robotic Systems: Theory and Applications, 2006, 45, 15-30.	2.0	15
75	Design of an enhancement for SSL/TLS protocols. Computers and Security, 2006, 25, 297-306.	4.0	17
76	Wired and wireless intrusion detection system: Classifications, good characteristics and state-of-the-art. Computer Standards and Interfaces, 2006, 28, 670-694.	3.8	63
77	Online automation and contmol. IEEE Robotics and Automation Magazine, 2006, 13, 91-98.	2.2	4
78	RISCBOT: A Mobile Surveillance and Identification Robot. , 2005, , .		0
79	Vehicle Routing Problem with Time Windows. , 2005, , 67-98.		117
80	A flexible fuzzy threat evaluation computer system. , 2004, , .		0
81	Optimizing the tasks at hand. IEEE Robotics and Automation Magazine, 2004, 11, 78-85.	2.2	18
82	SKED: A course scheduling and advising software. Computer Applications in Engineering Education, 2004, 12, 1-19.	2.2	3
83	Experimental Robot Musicians. Journal of Intelligent and Robotic Systems: Theory and Applications, 2003, 38, 197-212.	2.0	21
84	Obstacle Avoidance for Manipulators. Systems Analysis Modelling Simulation, 2003, 43, 67-74.	0.1	4
85	Obstacle Avoidance for Manipulators. Systems Analysis Modelling Simulation, 2003, 43, 749-757.	0.1	1
86	Design-Simulation-Optimization Package for a Generic 6-DOF Manipulator with a Spherical Wrist. Systems Analysis Modelling Simulation, 2003, 43, 759-769.	0.1	3
87	Recovering structure uncertainties from noisy sense data. Computers and Electrical Engineering, 2002, 28, 127-141.	3.0	1
88	Intelligent learning and control of autonomous robotic agents operating in unstructured environments. Information Sciences, 2002, 145, 1-12.	4.0	13
89	A PC-Based Simulator/Controller/Monitor Software for a Generic 6-DOF Manipulator. Journal of Intelligent and Robotic Systems: Theory and Applications, 2001, 31, 355-377.	2.0	3
90	Analysis of Sensing Errors for Manufacturing Geometric Objects from Sensed Data. Journal of Intelligent and Robotic Systems: Theory and Applications, 2001, 30, 143-153.	2.0	0

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91	Concurrent design of a three-link manipulator prototype. Computers and Electrical Engineering, 2001, 27, 445-458.	3.0	2
92	Advances in prototyping. IEEE Robotics and Automation Magazine, 2001, 8, 6-6.	2.2	0
93	Visionary prototyping. IEEE Robotics and Automation Magazine, 2001, 8, 15-24.	2.2	2
94	Robotic Optimization and Testing for the Formula One Tire-Changing Robot. Journal of Intelligent and Robotic Systems: Theory and Applications, 2000, 29, 277-294.	2.0	0
95	The Formula One Tire Changing Robot (F1-T.C.R.). Journal of Intelligent and Robotic Systems: Theory and Applications, 2000, 27, 171-193.	2.0	1
96	Reverse Engineering and Inspection of Machined Parts in Manufacturing Systems. , 2000, , .		0
97	Robotic system for wheel changing. , 1999, , .		0
98	Tolerance Representation and Analysis in Industrial Inspection. Journal of Intelligent and Robotic Systems: Theory and Applications, 1999, 24, 387-401.	2.0	3
99	Sensing under Uncertainty for Mobile Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 1999, 25, 1-25.	2.0	1
100	Analysis of tolerance for manufacturing geometric objects from sensed data. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 425-430.	0.4	0
101	Visualization of tolerance for manufacturing. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 6089-6094.	0.4	0
102	Robust Sensing for Mobile Robot Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 459-464.	0.4	1
103	Parallel sparse-matrix solution for direct circuit simulation on a transputer array. IET Circuits, Devices and Systems, 1997, 144, 335.	0.6	0
104	Discrete event and hybrid systems in robotics and automation: an overview. IEEE Robotics and Automation Magazine, 1997, 4, 16-19.	2.2	10
105	UPE: Utah prototyping environment for robot manipulators. Journal of Intelligent and Robotic Systems: Theory and Applications, 1996, 17, 31-60.	2.0	1
106	A discrete event framework for autonomous observation under uncertainty. Journal of Intelligent and Robotic Systems: Theory and Applications, 1996, 16, 315-385.	2.0	1
107	A sensing strategy for the reverse engineering of machined parts. Journal of Intelligent and Robotic Systems: Theory and Applications, 1995, 14, 323-340.	2.0	7
108	Industrial Inspection and Reverse Engineering. Computer Vision and Image Understanding, 1995, 61, 468-474.	3.0	20

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109	Discrete event systems in robotics and automation. Robotics and Autonomous Systems, 1994, 13, 151-152.	3.0	0
110	A dynamic recursive approach for autonomous inspection and reverse engineering. Robotics and Autonomous Systems, 1994, 13, 153-171.	3.0	0
111	A subject-indexed bibliography of discrete event dynamic systems. IEEE Robotics and Automation Magazine, 1994, 1, 14-20.	2.2	9
112	<title>Three-dimensional perception and recognition under uncertainty</title>. , 1992, , .		0
113	<title>Model for shape and motion perception</title>. , 1992, 1613, 190.		0
114	<title>Parallel algorithm for computing 3-D reachable workspaces</title>. , 1992, 1708, 364.		0
115	<title>Structure and motion of entire polyhedra</title>. , 1991, 1388, 425.		0
116	<title>Hybrid system for computing reachable workspaces for redundant manipulators</title>. , 1991, , .		2
117	<title>Operator/system communication: an optimizing decision tool</title>. , 1991, , .		0
118	<title>Efficient system for 3-D object recognition</title>. , 1991, , .		0
119	Visual Observation of a Moving Agent. , 1991, , 295-303.		3
120	Recovery of 3-D Motion and Structure by Temporal Fusion. , 1990, , .		7
121	A system for recovering 3-D motion and structure. , 1990, , .		0
122	On the evaluation of reachable workspace for redundant manipulators. , 1990, , .		0
123	An adaptive and efficient system for computing the 3D reachable workspace. , 0, , .		6
124	A model for observing a moving agent. , 0, , .		6
125	Visual observation under uncertainty as a discrete event process. , 0, , .		2
126	Visual observation for hybrid intelligent control implementation. , 0, , .		3

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127	A model for visual observation under uncertainty. , 0, , .		1
128	Autonomous observation under uncertainty. , 0, , .		9
129	A discrete event framework for intelligent inspection. , 0, , .		3
130	A perception framework for inspection and reverse engineering. , 0, , .		3
131	Discrete event control for inspection and reverse engineering. , 0, , .		2
132	URK: Utah Robot Kit-a 3-link robot manipulator prototype. , 0, , .		7
133	UPE: Utah prototyping environment for robot manipulators. , 0, , .		6
134	A unifying framework for tolerance analysis in sensing, design, and manufacturing. , 0, , .		1
135	Sensor-based distributed control scheme for mobile robots. , 0, , .		3
136	Parallel SOLVE for direct circuit simulation on a transputer array. , 0, , .		0
137	Commanding sensors and controlling indoor autonomous mobile robots. , 0, , .		0
138	The Formula One tire changing robot (F1-TCR). , 0, , .		4
139	New trends in prototyping design and automation. , 0, , .		0
140	A tool for data structure visualization and user-defined algorithm animation. , 0, , .		9
141	Effective networked and wireless simulation and control techniques while alleviating the access to high-cost manipulators. , 0, , .		0
142	Fully autonomous Web based virtual robot prototyping and manufacturing. , 0, , .		1
143	Case studies in Web-controlled devices and remote manipulation-laboratory based distance learning. , 0, , .		0
144	Kinematic synthesis of robotic manipulators from task descriptions. , 0, , .		3

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145	Web enabled robot design and dynamic control simulation software solutions from task points description. , 0, , .		1
146	Cartesian Parallel Manipulator Modeling, Control and Simulation. , 0, , .		7
147	Experimental Robot Musician. , 0, , .		0
148	A COMPUTATIONAL APPROACH FOR CONSTRUCTING THE REACHABLE WORKSPACES FOR REDUNDANT MANIPULATORS. International Journal of Computing, 0, , 48-52.	1.5	2
149	AN EXPERIMENTAL COLLECTIVE INTELLIGENCE RESEARCH TOOL. International Journal of Computing, 0, , 40-50.	1.5	0
150	E-LEARNING: CASE STUDIES IN WEB-CONTROLLED DEVICES AND REMOTE MANIPULATION. International Journal of Computing, 0, , 123-131.	1.5	0
151	CASE STUDIES IN WEB-CONTROLLED DEVICES AND REMOTE MANIPULATION. International Journal of Computing, 0, , 56-63.	1.5	0
152	REMOTE LEARNING: A WORLD-WIDE-WEB OPERATED ROBOT ARM. International Journal of Computing, 0, , 13-16.	1.5	0
153	WEB BASED VIRTUAL ROBOT PROTOTYPING AND MANUFACTURING. International Journal of Computing, 0, , 95-100.	1.5	0
154	Optimal Design of Three-Link Planar Manipulators Using Grashof's Criterion. , 0, , 595-607.		0
155	An Electronic Web Based Assessment System. , 0, , .		12