# Tarek M Sobh

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1025128/publications.pdf

Version: 2024-02-01

| 155 | 1,358 | 516215 | 454577 |
|---|---|---|---|
| papers | citations | 16 | 30 |
| | | h-index | g-index |

| 166 | 166 | 166 | 1188 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Manipulator Performance Measures - A Comprehensive Literature Survey. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 77, 547-570. | 2.0 | 181 |
| 2 | Robotics Middleware: A Comprehensive Literature Survey and Attribute-Based Bibliography. Journal of Robotics, 2012, 2012, 1-15. | 0.6 | 131 |
| 3 | Vehicle Routing Problem with Time Windows. , 2005, , 67-98. | | 117 |
| 4 | 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 |
| 5 | 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 |
| 6 | Disassembly Sequencing Using Tabu Search. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 82, 69-79. | 2.0 | 60 |
| 7 | Evolutionary Modular Robotics: Survey and Analysis. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 95, 815-828. | 2.0 | 49 |
| 8 | A cooperative immunological approach for detecting network anomaly. Applied Soft Computing Journal, 2011, 11, 1275-1283. | 4.1 | 25 |
| 9 | Task based synthesis of serial manipulators. Journal of Advanced Research, 2015, 6, 479-492. | 4.4 | 22 |
| 10 | Experimental Robot Musicians. Journal of Intelligent and Robotic Systems: Theory and Applications, 2003, 38, 197-212. | 2.0 | 21 |
| 11 | Industrial Inspection and Reverse Engineering. Computer Vision and Image Understanding, 1995, 61, 468-474. | 3.0 | 20 |
| 12 | 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 |
| 13 | Optimizing the tasks at hand. IEEE Robotics and Automation Magazine, 2004, 11, 78-85. | 2.2 | 18 |
| 14 | GNSS-Based Attitude Determination Techniquesâ€"A Comprehensive Literature Survey. IEEE Access, 2020, 8, 24873-24886. | 2.6 | 18 |
| 15 | Design of an enhancement for SSL/TLS protocols. Computers and Security, 2006, 25, 297-306. | 4.0 | 17 |
| 16 | Review of Neurobiologically Based Mobile Robot Navigation System Research Performed Since 2000. Journal of Robotics, 2016, 2016, 1-17. | 0.6 | 17 |
| 17 | Fortified Anonymous Communication Protocol for Location Privacy in WSN: A Modular Approach. Sensors, 2015, 15, 5820-5864. | 2.1 | 16 |
| 18 | A Robust Robotic Disassembly Sequence Design Using Orthogonal Arrays and Task Allocation. Robotics, 2019, 8, 20. | 2.1 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | Hardware Architecture Review of Swarm Robotics System: Self-Reconfigurability, Self-Reassembly, and Self-Replication. ISRN Robotics, 2013, 2013, 1-11. | 1.3 | 15 |
| 21 | 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 |
| 22 | Intelligent learning and control of autonomous robotic agents operating in unstructured environments. Information Sciences, 2002, 145, 1-12. | 4.0 | 13 |
| 23 | Advances in Computer and Information Sciences and Engineering. , 2008, , . | | 13 |
| 24 | Innovations in Computing Sciences and Software Engineering. , 2010, , . | | 12 |
| 25 | An Electronic Web Based Assessment System. , 0, , . | | 12 |
| 26 | An Enhanced Communication Protocol for Anonymity and Location Privacy in WSN. , 2015, , . | | 11 |
| 27 | Coordinating a heterogeneous robot swarm using Robot Utility-based Task Assignment (RUTA). , 2016, , . | | 11 |
| 28 | Effect of Super Resolution on High Dimensional Features for Unsupervised Face Recognition in the Wild. , 2017, , . | | 11 |
| 29 | Discrete event and hybrid systems in robotics and automation: an overview. IEEE Robotics and Automation Magazine, 1997, 4, 16-19. | 2.2 | 10 |
| 30 | An Online Genetic Algorithm for Automated Disassembly Sequence Generation. , 2011, , . | | 10 |
| 31 | Autonomous observation under uncertainty. , 0, , . | | 9 |
| 32 | A subject-indexed bibliography of discrete event dynamic systems. IEEE Robotics and Automation Magazine, 1994, 1, 14-20. | 2.2 | 9 |
| 33 | A tool for data structure visualization and user-defined algorithm animation. , 0, , . | | 9 |
| 34 | Hybrid Robot-as-a-Service (RaaS) Platform (Using MQTT and CoAP). , 2019, , . | | 9 |
| 35 | New Trends in Networking, Computing, E-learning, Systems Sciences, and Engineering. Lecture Notes in Electrical Engineering, 2015, , . | 0.3 | 8 |
| 36 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Recovery of 3-D Motion and Structure by Temporal Fusion. , 1990, , . | | 7 |
| 38 | URK: Utah Robot Kit-a 3-link robot manipulator prototype. , 0, , . | | 7 |
| 39 | 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 |
| 40 | Innovations and Advanced Techniques in Computer and Information Sciences and Engineering. , 2007, , . | | 7 |
| 41 | Cartesian Parallel Manipulator Modeling, Control and Simulation. , 0, , . | | 7 |
| 42 | UB robot swarm â€" Design, implementation, and power management. , 2016, , . | | 7 |
| 43 | Technological Developments in Networking, Education and Automation. , 2010, , . | | 7 |
| 44 | Innovations and Advances in Computer Sciences and Engineering. , 2010, , . | | 7 |
| 45 | An adaptive and efficient system for computing the 3D reachable workspace. , 0, , . | | 6 |
| 46 | A model for observing a moving agent. , 0, , . | | 6 |
| 47 | UPE: Utah prototyping environment for robot manipulators. , 0, , . | | 6 |
| 48 | A New Algorithm for Measuring and Optimizing the Manipulability Index. International Journal of Advanced Robotic Systems, 2009, 6, 9. | 1.3 | 6 |
| 49 | Emerging Trends in Computing, Informatics, Systems Sciences, and Engineering. Lecture Notes in Electrical Engineering, 2013, , . | 0.3 | 6 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | Optimal Design of Three-Link Planar Manipulators Using Grashofâ€™s Criterion. Advances in Computational Intelligence and Robotics Book Series, 2012, , 70-83. | 0.4 | 5 |
| 54 | The Formula One tire changing robot (F1-TCR). , 0, , . | | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Obstacle Avoidance for Manipulators. Systems Analysis Modelling Simulation, 2003, 43, 67-74. | 0.1 | 4 |
| 56 | Online automation and contmol. IEEE Robotics and Automation Magazine, 2006, 13, 91-98. | 2.2 | 4 |
| 57 | A Plug and Play Middleware for Sensory Modules, Actuation Platforms and Task Descriptions in Robotic Manipulation Platforms. , 2011, , . | | 4 |
| 58 | An efficient and dependable protocol for critical MANETs. Journal of High Speed Networks, 2014, 20, 153-168. | 0.6 | 4 |
| 59 | Identity management using SAML for mobile clients and Internet of Things. Journal of High Speed Networks, 2019, 25, 101-126. | 0.6 | 4 |
| 60 | Advances in Intelligent Robotics and Collaborative Automation. , 2015, , 1-364. | | 4 |
| 61 | Application of Image-Based Visual Servoing on Autonomous Drones. , 2020, , . | | 4 |
| 62 | Visual observation for hybrid intelligent control implementation. , 0, , . | | 3 |
| 63 | A discrete event framework for intelligent inspection. , 0, , . | | 3 |
| 64 | A perception framework for inspection and reverse engineering. , 0, , . | | 3 |
| 65 | Sensor-based distributed control scheme for mobile robots. , 0, , . | | 3 |
| 66 | Tolerance Representation and Analysis in Industrial Inspection. Journal of Intelligent and Robotic Systems: Theory and Applications, 1999, 24, 387-401. | 2.0 | 3 |
| 67 | 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 |
| 68 | Kinematic synthesis of robotic manipulators from task descriptions. , 0, , . | | 3 |
| 69 | 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 |
| 70 | SKED: A course scheduling and advising software. Computer Applications in Engineering Education, 2004, 12, 1-19. | 2.2 | 3 |
| 71 | Goal directed design of serial robotic manipulators. , 2014, , . | | 3 |
| 72 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Innovations and Advances in Computer, Information, Systems Sciences, and Engineering. Lecture Notes in Electrical Engineering, 2013, , . | 0.3 | 3 |
| 74 | An Enhanced Communication Protocol for Location Privacy in WSN. International Journal of Distributed Sensor Networks, 2015, 11, 697098. | 1.3 | 3 |
| 75 | Visual Observation of a Moving Agent. , 1991, , 295-303. | | 3 |
| 76 | <title>Hybrid system for computing reachable workspaces for redundant manipulators</title>. , 1991, , . | | 2 |
| 77 | Visual observation under uncertainty as a discrete event process. , 0, , . | | 2 |
| 78 | Discrete event control for inspection and reverse engineering. , 0, , . | | 2 |
| 79 | Concurrent design of a three-link manipulator prototype. Computers and Electrical Engineering, 2001, 27, 445-458. | 3.0 | 2 |
| 80 | Visionary prototyping. IEEE Robotics and Automation Magazine, 2001, 8, 15-24. | 2.2 | 2 |
| 81 | USING GRAPHEME n-GRAMS IN SPELLING CORRECTION AND AUGMENTATIVE TYPING SYSTEMS. New Mathematics and Natural Computation, 2008, 04, 87-106. | 0.4 | 2 |
| 82 | Modeling A Deburring Process, Using DELMIA V5Â®. , 2010, , 549-558. | | 2 |
| 83 | 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 |
| 84 | 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 |
| 85 | Unsupervised Sub-graph Selection and Its Application in Face Recognition Techniques. Lecture Notes in Computer Science, 2015, , 247-256. | 1.0 | 2 |
| 86 | Deployment Environment for a Swarm of Heterogeneous Robots. Robotics, 2016, 5, 22. | 2.1 | 2 |
| 87 | Analytical Method for Determination of Internal Forces of Mechanisms and Manipulators. Robotics, 2018, 7, 53. | 2.1 | 2 |
| 88 | New Concept In Optimizing Manipulability Index Of Serial Manipulators Using SVD Method. , 2008, , 186-191. | | 2 |
| 89 | Web-Based Control of Mobile Manipulation Platforms via Sensor Fusion. , 2009, , 297-312. | | 2 |
| 90 | Modular Design and Structure for a Mobile Sensory Platform. , 2010, , 433-441. | | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | A COMPUTATIONAL APPROACH FOR CONSTRUCTING THE REACHABLE WORKSPACES FOR REDUNDANT MANIPULATORS. International Journal of Computing, 0, , 48-52. | 1.5 | 2 |
| 92 | A robomech class parallel manipulator with three degrees of freedom. Eastern-European Journal of Enterprise Technologies, 2020, 3, 44-56. | 0.3 | 2 |
| 93 | A model for visual observation under uncertainty. , 0, , . | | 1 |
| 94 | A unifying framework for tolerance analysis in sensing, design, and manufacturing. , 0, , . | | 1 |
| 95 | UPE: Utah prototyping environment for robot manipulators. Journal of Intelligent and Robotic Systems: Theory and Applications, 1996, 17, 31-60. | 2.0 | 1 |
| 96 | 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 |
| 97 | Robust Sensing for Mobile Robot Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 459-464. | 0.4 | 1 |
| 98 | Sensing under Uncertainty for Mobile Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 1999, 25, 1-25. | 2.0 | 1 |
| 99 | 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 |
| 100 | Fully autonomous Web based virtual robot prototyping and manufacturing. , 0, , . | | 1 |
| 101 | Recovering structure uncertainties from noisy sense data. Computers and Electrical Engineering, 2002, 28, 127-141. | 3.0 | 1 |
| 102 | Obstacle Avoidance for Manipulators. Systems Analysis Modelling Simulation, 2003, 43, 749-757. | 0.1 | 1 |
| 103 | Web enabled robot design and dynamic control simulation software solutions from task points description. , 0, , . | | 1 |
| 104 | Using Hash Table to Extract Real-Time Online Network Traffic Features for Hardware IDS. Information Security Journal, 2012, 21, 55-63. | 1.3 | 1 |
| 105 | Using task descriptions for designing optimal task specific manipulators. , 2015, , . | | 1 |
| 106 | Evaluation of ASHFIK as Core-Based Routing Protocol for Critical MANETs. Wireless Personal Communications, 2016, 87, 1191-1208. | 1.8 | 1 |
| 107 | A novel neurophysiological based navigation system. Biologically Inspired Cognitive Architectures, 2017, 22, 67-81. | 0.9 | 1 |
| 108 | Task-Based Design of Modular Robots: Evolutionary Approach. , 2018, , . | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Survey on Decentralized Modular Robots and Control Platforms. Lecture Notes in Electrical Engineering, 2015, , 165-175. | 0.3 | 1 |
| 110 | Integration of Vision System, Intelligent ROBO Actuator, HMI and PLC to Design a Universal Quality Inspection or Control Machine. I-managerâ€™s Journal on Mechanical Engineering, 2012, 2, 5-14. | 0.4 | 1 |
| 111 | A system for recovering 3-D motion and structure. , 1990, , . | | 0 |
| 112 | On the evaluation of reachable workspace for redundant manipulators. , 1990, , . | | 0 |
| 113 | <title>Structure and motion of entire polyhedra</title>. , 1991, 1388, 425. | | 0 |
| 114 | <title>Operator/system communication: an optimizing decision tool</title>. , 1991, , . | | 0 |
| 115 | <title>Efficient system for 3-D object recognition</title>. , 1991, , . | | 0 |
| 116 | <title>Three-dimensional perception and recognition under uncertainty</title>. , 1992, , . | | 0 |
| 117 | <title>Model for shape and motion perception</title>. , 1992, 1613, 190. | | 0 |
| 118 | <title>Parallel algorithm for computing 3-D reachable workspaces</title>. , 1992, 1708, 364. | | 0 |
| 119 | Discrete event systems in robotics and automation. Robotics and Autonomous Systems, 1994, 13, 151-152. | 3.0 | 0 |
| 120 | A dynamic recursive approach for autonomous inspection and reverse engineering. Robotics and Autonomous Systems, 1994, 13, 153-171. | 3.0 | 0 |
| 121 | Parallel SOLVE for direct circuit simulation on a transputer array. , 0, , . | | 0 |
| 122 | Commanding sensors and controlling indoor autonomous mobile robots. , 0, , . | | 0 |
| 123 | Parallel sparse-matrix solution for direct circuit simulation on a transputer array. IET Circuits, Devices and Systems, 1997, 144, 335. | 0.6 | 0 |
| 124 | Robotic system for wheel changing. , 1999, , . | | 0 |
| 125 | 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 |
| 126 | Visualization of tolerance for manufacturing. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 6089-6094. | 0.4 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | 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 |
| 128 | New trends in prototyping design and automation. , 0, , . | | 0 |
| 129 | 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 |
| 130 | Advances in prototyping. IEEE Robotics and Automation Magazine, 2001, 8, 6-6. | 2.2 | 0 |
| 131 | Effective networked and wireless simulation and control techniques while alleviating the access to high-cost manipulators. , 0, , . | | 0 |
| 132 | Case studies in Web-controlled devices and remote manipulation-laboratory based distance learning. , 0, , . | | 0 |
| 133 | A flexible fuzzy threat evaluation computer system. , 2004, , . | | 0 |
| 134 | RISCBOT: A Mobile Surveillance and Identification Robot. , 2005, , . | | 0 |
| 135 | Intelligent Behaviour Modelling and Control for Mobile Manipulators. Computer Communications and Networks, 2009, , 29-46. | 0.8 | 0 |
| 136 | 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 |
| 137 | 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 |
| 138 | Temporal privacy scheme for end-to-end location privacy in wireless sensor networks. , 2015, , . | | 0 |
| 139 | Using an FPGA to emulate grid cell spatial cognition in a mobile robot. , 2016, , . | | 0 |
| 140 | Reverse Engineering and Inspection of Machined Parts in Manufacturing Systems. , 2000, , . | | 0 |
| 141 | Experimental Robot Musician. , 0, , . | | 0 |
| 142 | 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 |
| 143 | Recent Directions in Remote Engineering and Virtual Instrumentation. International Journal of Online and Biomedical Engineering, 2009, 5, 4. | 0.9 | 0 |
| 144 | A Novel Optimization of the Distance Source Routing (DSR) Protocol for the Mobile Ad Hoc Networks (MANET). , 2010, , 269-274. | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Interdisciplinary Automation and Control in a Programmable Logic Controller (PLC) Laboratory. , 2010, , 175-180. | | 0 |
| 146 | Hybrid Swarm Intelligence and Artificial Neural Network for Mitigating Malware Effects. Recent Patents on Computer Science, 2014, 7, 38-53. | 0.5 | 0 |
| 147 | AN EXPERIMENTAL COLLECTIVE INTELLIGENCE RESEARCH TOOL. International Journal of Computing, 0, , 40-50. | 1.5 | 0 |
| 148 | E-LEARNING: CASE STUDIES IN WEB-CONTROLLED DEVICES AND REMOTE MANIPULATION. International Journal of Computing, 0, , 123-131. | 1.5 | 0 |
| 149 | CASE STUDIES IN WEB-CONTROLLED DEVICES AND REMOTE MANIPULATION. International Journal of Computing, 0, , 56-63. | 1.5 | 0 |
| 150 | REMOTE LEARNING: A WORLD-WIDE-WEB OPERATED ROBOT ARM. International Journal of Computing, 0, , 13-16. | 1.5 | 0 |
| 151 | WEB BASED VIRTUAL ROBOT PROTOTYPING AND MANUFACTURING. International Journal of Computing, 0, , 95-100. | 1.5 | 0 |
| 152 | Structurally Parametric Synthesis of a RoboMech Class Parallel Manipulator with Three DOF. Mechanisms and Machine Science, 2020, , 371-379. | 0.3 | 0 |
| 153 | Optimal Design of Three-Link Planar Manipulators Using Grashof's Criterion. , 0, , 595-607. | | 0 |
| 154 | Stiction Fault in MEMS Comb Drive Resonator. , 2020, , . | | 0 |
| 155 | On-line Virtual Real-Time E-Collaboration: An Innovative Case Study on Engineering Research Teleconferencing Management. , 2008, , 586-591. | | 0 |