

# Wail Gueaieb

## List of Publications by Year in descending order

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Version: 2024-02-01

107  
papers

1,388  
citations

535685

17  
h-index

445137

33  
g-index

107  
all docs

107  
docs citations

107  
times ranked

1385  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | An Adaptive Fuzzy Reinforcement Learning Cooperative Approach for the Autonomous Control of Flock Systems. , 2021, , .   |     | 4         |
| 2  | A Data-Driven Model-Reference Adaptive Control Approach Based on Reinforcement Learning. , 2021, , .   |     | 1         |
| 3  | A Policy Iteration Approach for Flock Motion Control. , 2021, , .  |     | 1         |
| 4  | Online model-free controller for flexible wing aircraft: a policy iteration-based reinforcement learning approach. International Journal of Intelligent Robotics and Applications, 2020, 4, 21-43. | 1.6 | 6         |
| 5  | Model-Free Optimized Tracking Control Heuristic. Robotics, 2020, 9, 49.  | 2.1 | 1         |
| 6  | Integral reinforcement learning solutions for a synchronisation system with constrained policies. IET Control Theory and Applications, 2020, 14, 1599-1611.  | 1.2 | 1         |
| 7  | Guidance Mechanism for Flexible-Wing Aircraft Using Measurement-Interfaced Machine-Learning Platform. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4637-4648.                   | 2.4 | 11        |
| 8  | Guest Editorial Special Section on Robotic and Sensors Environments. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4623-4624.  | 2.4 | 0         |
| 9  | Online model-free reinforcement learning for the automatic control of a flexible wing aircraft. IET Control Theory and Applications, 2020, 14, 73-84.  | 1.2 | 13        |
| 10 | Trajectory Tracking of Underactuated Sea Vessels With Uncertain Dynamics: An Integral Reinforcement Learning Approach. , 2020, , .   |     | 1         |
| 11 | Data-Driven Optimized Tracking Control Heuristic for MIMO Structures: A Balance System Case Study. , 2020, , .   |     | 0         |
| 12 | Constraint-Free Discretized Manifolds for Robotic Path Planning. , 2020, , .   |     | 0         |
| 13 | Modeling of evanescent-wave coupling between optical dielectric waveguides. International Journal of Modelling and Simulation, 2019, 39, 38-47.  | 2.3 | 1         |
| 14 | An Online Reinforcement Learning Wing-Tracking Mechanism for Flexible Wing Aircraft. , 2019, , .   |     | 3         |
| 15 | Multi-Agent Synchronization Using Online Model-Free Action Dependent Dual Heuristic Dynamic Programming Approach. , 2019, , .  |     | 5         |
| 16 | A Self-Adjusting Adaptive AVR-LFC Scheme for Synchronous Generators. IEEE Transactions on Power Systems, 2019, 34, 5073-5075.  | 4.6 | 40        |
| 17 | An Adaptive Learning Flexible Control Scheme for Wind Doubly-Fed Induction Generator. , 2019, , 101-126.   |     | 0         |
| 18 | Load frequency regulation for multi-area power system using integral reinforcement learning. IET Generation, Transmission and Distribution, 2019, 13, 4311-4323.                                   | 1.4 | 19        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Model-Free Adaptive Control Approach Using Integral Reinforcement Learning. , 2019, , .  |     | 4         |
| 20 | Neurofuzzy Reinforcement Learning Control Schemes for Optimized Dynamical Performance. , 2019, , .   |     | 4         |
| 21 | Online Multi-Objective Model-Independent Adaptive Tracking Mechanism for Dynamical Systems. Robotics, 2019, 8, 82.                                       | 2.1 | 4         |
| 22 | Model-free adaptive learning control scheme for wind turbines with doubly fed induction generators. IET Renewable Power Generation, 2018, 12, 1675-1686. | 1.7 | 26        |
| 23 | Model-Free Gradient-Based Adaptive Learning Controller for an Unmanned Flexible Wing Aircraft. Robotics, 2018, 7, 66.                                    | 2.1 | 16        |
| 24 | Model-Free Value Iteration Solution for Dynamic Graphical Games. , 2018, , .   |     | 2         |
| 25 | Reinforcement Learning Solution with Costate Approximation for a Flexible Wing Aircraft. , 2018, , .   |     | 4         |
| 26 | Comparison of myocardial scar geometries generated from 2D and 3D LGE MRI. , 2018, , .   |     | 2         |
| 27 | 3D scar segmentation from LGE-MRI using a continuous max-flow method. , 2018, , .  |     | 3         |
| 28 | Optimal control for the trajectory planning of micro airships. , 2017, , .   |     | 1         |
| 29 | Flocking motion control for a system of nonholonomic vehicles. , 2017, , .   |     | 4         |
| 30 | Multi-agent reinforcement learning approach based on reduced value function approximations. , 2017, , .  |     | 13        |
| 31 | A High-Fidelity Energy Efficient Path Planner for Unmanned Airships. Robotics, 2017, 6, 28.  | 2.1 | 10        |
| 32 | LINEAR TIME-VARYING FEEDBACK LAW FOR VEHICLES WITH ACKERMANN STEERING. International Journal of Robotics and Automation, 2017, 32, .                     | 0.1 | 6         |
| 33 | TRAJECTORY OPTIMIZATION OF A SMALL AIRSHIP IN A MOVING FLUID. Transactions of the Canadian Society for Mechanical Engineering, 2016, 40, 191-200.        | 0.3 | 4         |
| 34 | Unmanned airship design with sliding ballast: Modeling and experimental validation. , 2016, , .  |     | 4         |
| 35 | Reconfigurable EKF for 2D SLAM. , 2016, , .  |     | 1         |
| 36 | Genetic algorithm based direction finder on the manifold for singularity free paths. , 2016, , .   |     | 2         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Efficient Cholesky Factor Recovery for Column Reordering in Simultaneous Localisation and Mapping. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 84, 859-875.               | 2.0 | 3         |
| 38 | Rényi Entropy Filter for Anomaly Detection With Eddy Current Remote Field Sensors. IEEE Sensors Journal, 2015, 15, 6399-6408.  | 2.4 | 6         |
| 39 | A modular mobile exergaming system with an adaptive behavior. , 2015, , .  |     | 5         |
| 40 | Dynamics and Control of a Planar Multibody Mobile Robot for Confined Environment Inspection. Journal of Computational and Nonlinear Dynamics, 2015, 10, .  | 0.7 | 4         |
| 41 | CAHR: A Contextually Adaptive Home-Based Rehabilitation Framework. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 427-438.  | 2.4 | 8         |
| 42 | Neighboring optimal control for mobile robot trajectory tracking with range-limited sensors. , 2015, , .   |     | 0         |
| 43 | Linear time-invariant feedback operator for mobile robot trajectory tracking. , 2015, , .  |     | 2         |
| 44 | RFID-Based Mobile Robot Trajectory Tracking and Point Stabilization Through On-line Neighboring Optimal Control. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 78, 377-399. | 2.0 | 21        |
| 45 | Planar kinematics analysis of a snake-like robot. Robotica, 2014, 32, 659-675.   | 1.3 | 12        |
| 46 | Maritime air defence firing tactics. , 2014, , .   |     | 2         |
| 47 | Hybrid Power Plant Design for a Long-Range Dirigible UAV. IEEE/ASME Transactions on Mechatronics, 2014, 19, 606-614.   | 3.7 | 14        |
| 48 | Optimal time-varying P-controller for a class of uncertain nonlinear systems. International Journal of Control, Automation and Systems, 2014, 12, 722-732.   | 1.6 | 9         |
| 49 | Long-range communication framework for multi-agent autonomous UAVs. , 2014, , .  |     | 6         |
| 50 | A Fuzzy-Based Adaptive Rehabilitation Framework for Home-Based Wrist Training. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 135-144.  | 2.4 | 21        |
| 51 | Mobile robot trajectory tracking using noisy RSS measurements: An RFID approach. ISA Transactions, 2014, 53, 433-443.  | 3.1 | 26        |
| 52 | Experimental Testing of a Hybrid Power Plant for a Dirigible UAV. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 69, 69.   | 2.0 | 6         |
| 53 | Computationally Efficient Adaptive Type-2 Fuzzy Control of Flexible-Joint Manipulators. Robotics, 2013, 2, 66-91.  | 2.1 | 25        |
| 54 | Evaluation of the Phase-Inversion Signal Separation Method When Using Nonlinear Hearing Aids. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 879-888.                              | 3.8 | 2         |

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|----|---|-----|-----------|
| 55 | Knowledge-based image segmentation using swarm intelligence techniques. International Journal of Innovative Computing and Applications, 2012, 4, 75.                          | 0.2 | 12        |
| 56 | Determining wrist reference kinematics using a sensory-mounted stress ball. , 2012, , .   |     | 7         |
| 57 | A context-aware multimedia framework toward personal social network services. Multimedia Tools and Applications, 2012, 71, 1717.  | 2.6 | 5         |
| 58 | RFID-based interactive multimedia system for the children. Multimedia Tools and Applications, 2012, 59, 749-774.  | 2.6 | 15        |
| 59 | Tele-Wobble: A Telerehabilitation Wobble Board for Lower Extremity Therapy. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1816-1824.                        | 2.4 | 23        |
| 60 | Guest Editorial Introduction to the Focused Section on Wireless Mechatronics. IEEE/ASME Transactions on Mechatronics, 2012, 17, 397-403.                                      | 3.7 | 9         |
| 61 | RehaBall: Rehabilitation of upper limbs with a sensory-integrated stress ball. , 2011, , .  |     | 9         |
| 62 | E-dumbbell: An electronic dumbbell with haptic feedback for wrist rehabilitation. , 2011, , .   |     | 1         |
| 63 | Entropy filter for anomaly detection with eddy current remote field sensors. , 2011, , .  |     | 1         |
| 64 | Evaluation of two speech and noise estimation methods for the assessment of nonlinear hearing aids. , 2011, , .   |     | 0         |
| 65 | Augmenting Context Awareness by Combining Body Sensor Networks and Social Networks. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 345-353.                  | 2.4 | 26        |
| 66 | E-Glove: An electronic glove with vibro-tactile feedback for wrist rehabilitation of post-stroke patients. , 2011, , .  |     | 19        |
| 67 | E-wobble: An electronic wobble board for ankle and toe rehabilitation. , 2011, , .  |     | 6         |
| 68 | Adding emotional tag to augment context-awareness in social network services. , 2011, , .   |     | 4         |
| 69 | Pileup Correction Algorithms for Very-High-Count-Rate Gamma-Ray Spectrometry With NaI(Tl) Detectors. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 122-130. | 2.4 | 33        |
| 70 | Building Dynamic Social Network From Sensory Data Feed. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1327-1341.  | 2.4 | 23        |
| 71 | Adaptive environment classification system for hearing aids. Journal of the Acoustical Society of America, 2010, 127, 3124-3135.  | 0.5 | 17        |
| 72 | Indoor robot navigation through intelligent processing of RFID signal measurements. , 2010, , .   |     | 7         |

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|----|--|-----|-----------|
| 73 | Ubiquitous social network stack for e-Health applications. , 2010, , .   |     | 2         |
| 74 | Context-aware social networks mashup: A personalized web perspective. , 2010, , .  |     | 8         |
| 75 | Data visualization: From body sensor network to social networks. , 2009, , .   |     | 9         |
| 76 | Magic stick: A tangible interface for the edutainment of young children. , 2009, , .   |     | 6         |
| 77 | SenseFace: A sensor network overlay for social networks. , 2009, , .   |     | 14        |
| 78 | Neural network based speed observer for interior permanent magnet synchronous motor drives. , 2009, , .  |     | 9         |
| 79 | ANN-based adaptive motion and posture control of an inverted pendulum with unknown dynamics. , 2009, , .   |     | 3         |
| 80 | A Wiener-based implementation of equalization-cancellation pre-processing for binaural speech intelligibility prediction. , 2009, , .                    |     | 1         |
| 81 | An ambient intelligent body sensor network for e-Health applications. , 2009, , .  |     | 10        |
| 82 | A stochastic approach of mobile robot navigation using customized RFID systems. , 2009, , .  |     | 4         |
| 83 | ANN-Based Adaptive Control of Robotic Manipulators With Friction and Joint Elasticity. IEEE Transactions on Industrial Electronics, 2009, 56, 3174-3187. | 5.2 | 126       |
| 84 | A Modular Cost-Effective Mobile Robot Navigation System Using RFID Technology. Journal of Communications, 2009, 4, .                                     | 1.3 | 11        |
| 85 | Type-2 Fuzzy Logic Control of a Flexible-Joint Manipulator. Journal of Intelligent and Robotic Systems: Theory and Applications, 2008, 51, 159-186.      | 2.0 | 80        |
| 86 | An Intelligent Mobile Robot Navigation Technique Using RFID Technology. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 1908-1917.       | 2.4 | 132       |
| 87 | Ant colony-based many-to-one sensory data routing in Wireless Sensor Networks. , 2008, , .   |     | 22        |
| 88 | Mobile robot navigation using particle swarm optimization and noisy RFID communication. , 2008, , .  |     | 10        |
| 89 | A Fast Scalable Evolutionary Algorithm for the QoS Multicast Routing Problem. Intelligent Automation and Soft Computing, 2008, 14, 461-478.              | 1.6 | 0         |
| 90 | A FAST HYBRID ALGORITHM FOR MULTICAST ROUTING IN WIRELESS NETWORKS. International Journal on Artificial Intelligence Tools, 2007, 16, 45-68.             | 0.7 | 2         |

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|-----|--|-----|-----------|
| 91  | A Framework for Sensory-based P2P Collaborative Environment. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .                       | 0.0 | 0         |
| 92  | A Robust Hybrid Intelligent Position/Force Control Scheme for Cooperative Manipulators. IEEE/ASME Transactions on Mechatronics, 2007, 12, 109-125.                           | 3.7 | 119       |
| 93  | SENORA: A P2P Service-Oriented Framework for Collaborative Multirobot Sensor Networks. IEEE Sensors Journal, 2007, 7, 658-666.   | 2.4 | 18        |
| 94  | FPGA implementation of a hybrid neural fuzzy controller for flexible-joint manipulators with uncertain dynamics. , 2007, , .   |     | 1         |
| 95  | Artificial Neural Network Control of a Flexible-Joint Manipulator Under Unstructured Dynamic Uncertainties. , 2007, , .  |     | 1         |
| 96  | An RFID-Based robot navigation system with a customized RFID tag architecture. , 2007, , .   |     | 11        |
| 97  | Experiments on a novel modular cost-effective RFID-based mobile robot navigation system. , 2007, , .   |     | 2         |
| 98  | Intelligent Parallel Parking of a Car-like Mobile Robot Using RFID Technology. , 2007, , .   |     | 9         |
| 99  | A P2P Sensor Framework for Collaborative Robots Manipulation. , 2007, , .  |     | 1         |
| 100 | Robust computationally efficient control of cooperative closed-chain manipulators with uncertain dynamics. Automatica, 2007, 43, 842-851.                                    | 3.0 | 62        |
| 101 | Segmentation of Dental Radiographs Using a Swarm Intelligence Approach. , 2006, , .  |     | 23        |
| 102 | Hybrid Neural Fuzzy Sliding Mode Control of Flexible-Joint Manipulators with Unknown Dynamics. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , . | 0.0 | 24        |
| 103 | A Modular Sliding Mode Controller for Cooperative Closed-Chain Manipulators With Uncertain Dynamics. , 2006, , .   |     | 0         |
| 104 | Soft computing and intelligent systems design - [Book review]. IEEE Computational Intelligence Magazine, 2006, 1, 42-44.   | 3.4 | 0         |
| 105 | A robust adaptive fuzzy position/force control scheme for cooperative manipulators. IEEE Transactions on Control Systems Technology, 2003, 11, 516-528.                      | 3.2 | 57        |
| 106 | Computational Intelligence Based Approach for the Joint Trajectory Generation of Cooperative Robotic Systems. Systems Analysis Modelling Simulation, 2002, 42, 1499-1520.    | 0.1 | 1         |
| 107 | Robust Tracking of a Lightweight Manipulator System. Nonlinear Dynamics, 1999, 20, 169-179.  | 2.7 | 4         |