

# Jingang Yi

## List of Publications by Citations

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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.

133  
papers

2,084  
citations

25  
h-index

40  
g-index

156  
ext. papers

2,582  
ext. citations

3.9  
avg. IF

5.32  
L-index

| #   | Paper   | IF  | Citations |
|-----|---|-----|-----------|
| 133 | Disturbance-Observer-Based Hysteresis Compensation for Piezoelectric Actuators. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2009</b> , 14, 456-464   | 5.5 | 134       |
| 132 | Kinematic Modeling and Analysis of Skid-Steered Mobile Robots With Applications to Low-Cost Inertial-Measurement-Unit-Based Motion Estimation. <i>IEEE Transactions on Robotics</i> , <b>2009</b> , 25, 1087-1097 | 6.5 | 121       |
| 131 | Steady-State Throughput and Scheduling Analysis of Multicluster Tools: A Decomposition Approach. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2008</b> , 5, 321-336                        | 4.9 | 93        |
| 130 | Multicluster tools scheduling: an integrated event graph and network model approach. <i>IEEE Transactions on Semiconductor Manufacturing</i> , <b>2006</b> , 19, 339-351  | 2.6 | 92        |
| 129 | Optimal Scheduling of Multicluster Tools With Constant Robot Moving Times, Part I: Two-Cluster Analysis. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2011</b> , 8, 5-16                   | 4.9 | 90        |
| 128 | Mechatronic Systems Design for an Autonomous Robotic System for High-Efficiency Bridge Deck Inspection and Evaluation. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2013</b> , 18, 1655-1664                | 5.5 | 75        |
| 127 | A Piezo-Sensor-Based Smart Tire System for Mobile Robots and Vehicles. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2008</b> , 13, 95-103   | 5.5 | 61        |
| 126 | Emergency Braking Control with an Observer-based Dynamic Tire/Road Friction Model and Wheel Angular Velocity Measurement. <i>Vehicle System Dynamics</i> , <b>2003</b> , 39, 81-97                                | 2.8 | 58        |
| 125 | Optimal Scheduling of Multicluster Tools With Constant Robot Moving Times, Part II: Tree-Like Topology Configurations. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2011</b> , 8, 17-28    | 4.9 | 56        |
| 124 | On stable simultaneous input and state estimation for discrete-time linear systems. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2011</b> , 25, 671-686                            | 2.8 | 55        |
| 123 | A Vibration-Based PMN-PT Energy Harvester. <i>IEEE Sensors Journal</i> , <b>2009</b> , 9, 731-739   | 4   | 53        |
| 122 | A PVDF-Based Deformation and Motion Sensor: Modeling and Experiments. <i>IEEE Sensors Journal</i> , <b>2008</b> , 8, 384-391  | 4   | 41        |
| 121 | Macroscopic traffic flow propagation stability for adaptive cruise controlled vehicles. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2006</b> , 14, 81-95                                    | 8.4 | 37        |
| 120 | Simultaneous Localization of Multiple Unknown and Transient Radio Sources Using a Mobile Robot. <i>IEEE Transactions on Robotics</i> , <b>2012</b> , 28, 668-680  | 6.5 | 34        |
| 119 | Rider trunk and bicycle pose estimation with fusion of force/inertial sensors. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2013</b> , 60, 2541-51   | 5   | 34        |
| 118 | On the Stability and Agility of Aggressive Vehicle Maneuvers: A Pendulum-Turn Maneuver Example. <i>IEEE Transactions on Control Systems Technology</i> , <b>2012</b> , 20, 663-676                                | 4.8 | 33        |
| 117 | Stability of macroscopic traffic flow modeling through wavefront expansion. <i>Transportation Research Part B: Methodological</i> , <b>2003</b> , 37, 661-679   | 7.2 | 32        |

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|-----|--|------|----|
| 116 | Contactless Determination of Electrical Conductivity of One-Dimensional Nanomaterials by Solution-Based Electro-orientation Spectroscopy. <i>ACS Nano</i> , <b>2015</b> , 9, 5405-12   | 16.7 | 30 |
| 115 | Wearable Sensor System for Detecting Gait Parameters of Abnormal Gaits: A Feasibility Study. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 4234-4241   | 4    | 30 |
| 114 | The Lower Limbs Kinematics Analysis by Wearable Sensor Shoes. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 2627-2638  | 28   |    |
| 113 | Whole-Body Pose Estimation in Human Bicycle Riding Using a Small Set of Wearable Sensors. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2015</b> , 1-1  | 5.5  | 28 |
| 112 | Autonomous robotic system for bridge deck data collection and analysis <b>2014</b> ,   |      | 26 |
| 111 | Vision-based motion planning for an autonomous motorcycle on ill-structured roads. <i>Autonomous Robots</i> , <b>2007</b> , 23, 197-212  | 3    | 26 |
| 110 | Quasi-Direct Drive Actuation for a Lightweight Hip Exoskeleton with High Backdrivability and High Bandwidth. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2020</b> , 25, 1794-1802   | 5.5  | 25 |
| 109 | Cooperative Search of Multiple Unknown Transient Radio Sources Using Multiple Paired Mobile Robots. <i>IEEE Transactions on Robotics</i> , <b>2014</b> , 30, 1161-1173   | 6.5  | 25 |
| 108 | Autonomous robotic system for high-efficiency non-destructive bridge deck inspection and evaluation <b>2013</b> ,  |      | 25 |
| 107 | Embedded Flexible Force Sensor for In-Situ Tire/Road Interaction Measurements. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 1756-1765   | 4    | 23 |
| 106 | RABIT: implementation, performance validation and integration with other robotic platforms for improved management of bridge decks. <i>International Journal of Intelligent Robotics and Applications</i> , <b>2017</b> , 1, 271-286 | 1.7  | 22 |
| 105 | Real-Time Intended Knee Joint Motion Prediction by Deep-Recurrent Neural Networks. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 11503-11509   | 4    | 22 |
| 104 | A simple model for predicting walking energetics with elastically-suspended backpack. <i>Journal of Biomechanics</i> , <b>2016</b> , 49, 4150-4153   | 2.9  | 21 |
| 103 | Two Shank-Mounted IMUs-Based Gait Analysis and Classification for Neurological Disease Patients. <i>IEEE Robotics and Automation Letters</i> , <b>2020</b> , 5, 1970-1976  | 4.2  | 19 |
| 102 | Autonomous motorcycles for agile maneuvers, part I: Dynamic modeling <b>2009</b> ,   |      | 18 |
| 101 | A robotic bipedal model for human walking with slips <b>2015</b> ,   |      | 17 |
| 100 | Motion Control, Planning and Manipulation of Nanowires Under Electric-Fields in Fluid Suspension. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2015</b> , 12, 37-49   | 4.9  | 17 |
| 99  | A Novel Tactile Sensor with Electromagnetic Induction and Its Application on Stick-Slip Interaction Detection. <i>Sensors</i> , <b>2016</b> , 16, 430  | 3.8  | 17 |

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| 98 | Inertial Sensor-Based Slip Detection in Human Walking. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2019</b> , 16, 1399-1411   | 4.9 | 17 |
| 97 | Throughput Analysis of Linear Cluster Tools <b>2007</b> ,   |     | 16 |
| 96 | Absolute Attitude Estimation of Rigid Body on Moving Platform Using Only Two Gyroscopes and Relative Measurements. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2018</b> , 23, 1350-1361                    | 5.5 | 15 |
| 95 | An integrated physical-learning model of physical human-robot interactions with application to pose estimation in bikebot riding. <i>International Journal of Robotics Research</i> , <b>2016</b> , 35, 1459-1476 | 5.7 | 15 |
| 94 | Stationary balance control of a bikebot <b>2014</b> ,   |     | 15 |
| 93 | Autonomous motorcycles for agile maneuvers, part II: Control systems design <b>2009</b> ,   |     | 15 |
| 92 | Balance control and analysis of stationary riderless motorcycles <b>2011</b> ,  |     | 15 |
| 91 | Neural network based uniformity profile control of linear chemical-mechanical planarization. <i>IEEE Transactions on Semiconductor Manufacturing</i> , <b>2003</b> , 16, 609-620                                  | 2.6 | 15 |
| 90 | Simultaneous Multiple-Nanowire Motion Control, Planning, and Manipulation Under Electric Fields in Fluid Suspension. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2018</b> , 15, 80-91     | 4.9 | 14 |
| 89 | Static Tire/Road StickSlip Interactions: Analysis and Experiments. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2014</b> , 19, 1940-1950  | 5.5 | 14 |
| 88 | High-throughput electrical measurement and microfluidic sorting of semiconductor nanowires. <i>Lab on A Chip</i> , <b>2016</b> , 16, 2126-34  | 7.2 | 13 |
| 87 | Automated characterization and assembly of individual nanowires for device fabrication. <i>Lab on A Chip</i> , <b>2018</b> , 18, 1494-1503  | 7.2 | 12 |
| 86 | . <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 5936-5945   | 4   | 11 |
| 85 | Evaluation on Step Counting Performance of Wristband Activity Monitors in Daily Living Environment. <i>IEEE Access</i> , <b>2017</b> , 5, 13020-13027   | 3.5 | 11 |
| 84 | Trajectory tracking and balance control of an autonomous bikebot <b>2017</b> ,  |     | 11 |
| 83 | Model predictive control of buoyancy propelled autonomous underwater glider <b>2015</b> ,   |     | 11 |
| 82 | On the Time to Search for an Intermittent Signal Source Under a Limited Sensing Range. <i>IEEE Transactions on Robotics</i> , <b>2011</b> , 27, 313-323   | 6.5 | 11 |
| 81 | Localization of Unknown Networked Radio Sources Using a Mobile Robot with a Directional Antenna. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,  | 1.2 | 11 |

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| 80 | On the wafer/pad friction of chemical-mechanical planarization (CMP) processes - Part I: modeling and analysis. <i>IEEE Transactions on Semiconductor Manufacturing</i> , <b>2005</b> , 18, 359-370  | 2.6 | 11 |
| 79 | Motion planning for aggressive autonomous vehicle maneuvers <b>2016</b> ,  |     | 11 |
| 78 | Stability and Control of a RiderBicycle System: Analysis and Experiments. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2020</b> , 17, 348-360                                 | 4.9 | 11 |
| 77 | Dynamic modeling and balance control of human/bicycle systems <b>2010</b> ,  |     | 10 |
| 76 | On the Optimality of One-Unit Cycle Scheduling of Multi-Cluster Tools with Single-Blade Robots <b>2007</b> ,   |     | 10 |
| 75 | Monocular Vision-Based Parameter Estimation for Mobile Robotic Painting. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2019</b> , 68, 3589-3599                                   | 5.2 | 10 |
| 74 | Gaussian Processes Model-Based Control of Underactuated Balance Robots <b>2019</b> ,   |     | 9  |
| 73 | Shoe-Floor Interactions in Human Walking With Slips: Modeling and Experiments. <i>Journal of Biomechanical Engineering</i> , <b>2018</b> , 140,  | 2.1 | 8  |
| 72 | IMU-Based Gait Normalcy Index Calculation for Clinical Evaluation of Impaired Gait. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2021</b> , 25, 3-12                                | 7.2 | 8  |
| 71 | Real-time motion planning of multiple nanowires in fluid suspension under electric-field actuation. <i>International Journal of Intelligent Robotics and Applications</i> , <b>2018</b> , 2, 383-399 | 1.7 | 8  |
| 70 | A novel wheel-track hybrid electric powered wheelchair for stairs climbing. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2016</b> , 10, JAMDSM0060-JAMDSM0060        | 0.6 | 7  |
| 69 | Dynamic stability of a rider-bicycle system: Analysis and experiments <b>2015</b> ,  |     | 7  |
| 68 | Pose estimation in physical human-machine interactions with application to bicycle riding <b>2014</b> ,  |     | 7  |
| 67 | Dynamic model-aided localization of underwater autonomous gliders <b>2013</b> ,  |     | 7  |
| 66 | Balance recovery control of human walking with foot slip <b>2016</b> ,   |     | 6  |
| 65 | Whole-body pose estimation in physical rider-bicycle interactions with a monocular camera and a set of wearable gyroscopes <b>2014</b> ,   |     | 6  |
| 64 | Hybrid zero dynamics of human biped walking with foot slip <b>2017</b> ,   |     | 6  |
| 63 | How to Carry Loads Economically: Analysis Based on a Predictive Biped Model. <i>Journal of Biomechanical Engineering</i> , <b>2020</b> , 142,  | 2.1 | 6  |

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|----|--|------|---|
| 62 | Sliding-Mode Nonlinear Predictive Control of Brain-Controlled Mobile Robots. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , PP,   | 10.2 | 6 |
| 61 | A REVIEW ON HUMAN-EXOSKELETON COORDINATION TOWARDS LOWER LIMB ROBOTIC EXOSKELETON SYSTEMS. <i>International Journal of Robotics and Automation</i> , <b>2019</b> , 34,                                 | 1.3  | 6 |
| 60 | Balance equilibrium manifold and control of rider-bikebot systems <b>2016</b> ,  |      | 6 |
| 59 | Motion control of autonomous aggressive vehicle maneuvers <b>2016</b> ,  |      | 6 |
| 58 | A Real-time Pre-impact Fall Detection and Protection System <b>2018</b> ,  |      | 6 |
| 57 | Motion control and manipulation of nanowires under electric-fields in fluid suspension <b>2014</b> ,   |      | 5 |
| 56 | Electrophoresis-based motion planning and control of a nanowire in fluid suspension <b>2013</b> ,  |      | 5 |
| 55 | Simultaneous localization of multiple unknown CSMA-based wireless sensor network nodes using a mobile robot with a directional antenna. <i>Intelligent Service Robotics</i> , <b>2009</b> , 2, 219-231 | 2.6  | 5 |
| 54 | Rider/bicycle pose estimation with IMU/seat force measurements <b>2012</b> ,   |      | 5 |
| 53 | A new algorithm for simultaneous input and state estimation <b>2008</b> ,  |      | 5 |
| 52 | IMU-based localization and slip estimation for skid-steered mobile robots <b>2007</b> ,  |      | 5 |
| 51 | A Stick-Slip Interactions Model of Soft-Solid Frictional Contacts. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2019</b> , 141,                           | 1.6  | 5 |
| 50 | Slip detection and prediction in human walking using only wearable inertial measurement units (IMUs) <b>2015</b> ,   |      | 4 |
| 49 | Time-optimal simultaneous motion planning and manipulation of multiple nanowires under electric-fields in fluid suspension <b>2016</b> ,   |      | 4 |
| 48 | Design of a Robotic Knee Assistive Device (ROKAD) for Slip-Induced Fall Prevention during Walking. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 9802-9807  | 0.7  | 4 |
| 47 | Disturbance observer-based hysteresis compensation for piezoelectric actuators <b>2009</b> ,   |      | 4 |
| 46 | Understanding tire/road stick-slip interactions with embedded rubber force sensors <b>2012</b> ,   |      | 4 |
| 45 | Bipedal Model and Hybrid Zero Dynamics of Human Walking With Foot Slip. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2019</b> , 14,   | 1.4  | 4 |

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|----|--|-----|---|
| 44 | Stable Learning-Based Tracking Control of Underactuated Balance Robots. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 1543-1550                                   | 4.2 | 4 |
| 43 | Modeling and motion stability analysis of skid-steered mobile robots <b>2009</b> ,   |     | 3 |
| 42 | Machine Learning-Enabled Noncontact Sleep Structure Prediction. <i>Advanced Intelligent Systems</i> , 21002276   |     | 3 |
| 41 | Wearable IMU-based Early Limb Lameness Detection for Horses using Multi-Layer Classifiers <b>2020</b> ,  |     | 3 |
| 40 | Real-Time Walking Gait Estimation for Construction Workers using a Single Wearable Inertial Measurement Unit (IMU) <b>2021</b> ,   |     | 3 |
| 39 | Control of a Two-Wheel Steering Bikebot for Agile Maneuvers <b>2019</b> ,  |     | 3 |
| 38 | Reconstructing Walking Dynamics from Two Shank-Mounted Inertial Measurement Units (IMUs). <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 1-1                        | 5.5 | 3 |
| 37 | Automated Electric-Field-Based Nanowire Characterization, Manipulation, and Assembly <b>2018</b> ,   |     | 3 |
| 36 | Proprioceptive Localization Assisted by Magnetoreception: A Minimalist Intermittent Heading Based Approach. <i>IEEE Robotics and Automation Letters</i> , <b>2019</b> , 4, 586-593 | 4.2 | 2 |
| 35 | Generation of High-Density Hyperspectral Point Clouds of Crops with Robotic Multi-Camera Planning <b>2019</b> ,  |     | 2 |
| 34 | Neural network-based gait assessment using measurements of a wearable sensor system <b>2014</b> ,  |     | 2 |
| 33 | Modeling of pure percussive drilling for autonomous robotic bridge decks rehabilitation <b>2013</b> ,  |     | 2 |
| 32 | Optimal scheduling of k-unit production of cluster tools with single-blade robots <b>2008</b> ,  |     | 2 |
| 31 | Dynamic modeling of an L-shape PMN-PT piezo-based manipulator <b>2008</b> ,  |     | 2 |
| 30 | Friction modeling in linear chemical-mechanical planarization. <i>IEEE Control Systems</i> , <b>2008</b> , 28, 59-78   | 2.9 | 2 |
| 29 | Detection method of eyes opening and closing ratio for driver's fatigue monitoring. <i>IET Intelligent Transport Systems</i> , <b>2021</b> , 15, 31-42                             | 2.4 | 2 |
| 28 | Safety-Guaranteed Learning-Predictive Control for Aggressive Autonomous Vehicle Maneuvers <b>2020</b> ,  |     | 2 |
| 27 | Development of a Two-Wheel Steering Unmanned Bicycle: Simulation and Experimental Study* <b>2020</b> ,   |     | 2 |

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|----|---|-----|---|
| 26 | Pose estimation of a rigid body and its supporting moving platform using two gyroscopes and relative complementary measurements <b>2016</b> ,                     |     | 2 |
| 25 | An Integrated Stationary/Moving Balance Control of an Autonomous Bikebot <b>2019</b> ,  |     | 2 |
| 24 | Capturability of Inverted Pendulum Gait Model Under Slip Conditions <b>2018</b> ,   |     | 2 |
| 23 | Strength Capacity Estimation of Human Upper Limb in Human-Robot Interactions with Muscle Synergy Models <b>2018</b> ,   |     | 2 |
| 22 | Wearable Knee Assistive Devices for Kneeling Tasks in Construction. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 26, 1989-1996                   | 5.5 | 2 |
| 21 | Design of respiratory training robot in rehabilitation of chronic obstructive pulmonary disease <b>2015</b> ,   |     | 1 |
| 20 | Auto-Calibrated 3D Hyperspectral Scanning Using a Heterogeneous Set of Cameras and Lights with Spectrally-Optimal Next-Best-View Planning <b>2020</b> ,           |     | 1 |
| 19 | Modeling and Experiments of Rotary Percussive Drilling for Robotic Civil Infrastructure Rehabilitation. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 9784-9789    | 0.7 | 1 |
| 18 | Disturbance observer-based balance control of robotic biped walkers under slip <b>2017</b> ,  |     | 1 |
| 17 | On the relationship between manifold learning latent dynamics and zero dynamics for human bipedal walking <b>2015</b> ,   |     | 1 |
| 16 | Dynamic rider/bicycle pose estimation with force/IMU measurements <b>2013</b> ,   |     | 1 |
| 15 | Control of a Bipedal Walker Under Foot Slipping Condition Using Whole-Body Operational Space Framework. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 278-283      | 0.7 | 1 |
| 14 | Collaborative Manipulation of Spherical-Shape Objects with a Deformable Sheet Held by a Mobile Robotic Team. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 437-442 | 0.7 | 1 |
| 13 | Assist-As-Needed Control of a Wearable Lightweight Knee Robotic Device <b>2020</b> ,  |     | 1 |
| 12 | Recoverability Estimation and Control for an Inverted Pendulum Walker Model Under Foot Slip <b>2020</b> ,   |     | 1 |
| 11 | Spline-Based Modeling and Control of Soft Robots <b>2020</b> ,  |     | 1 |
| 10 | Gaussian Process (GP)-based Learning Control of Selective Laser Melting Process <b>2021</b> ,   |     | 1 |
| 9  | Development of a novel elastic load-carrying device: Design, modeling and analysis <b>2016</b> ,  |     | 1 |



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| 8 | A Model Predictive Control Based Iterative Trajectory Optimization Method for Systems with State-Like Disturbances <b>2019</b> ,   |     | 1 |
| 7 | Collaborative Object Manipulation Through Indirect Control of a Deformable Sheet by a Mobile Robotic Team <b>2019</b> ,  |     | 1 |
| 6 | Driver Fatigue Detection Based on Machine Vision* <b>2018</b> ,  |     | 1 |
| 5 | Coordinated Pose Control of Mobile Manipulation With an Unstable Bikebot Platform. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2022</b> , 1-11                      | 5.5 | 1 |
| 4 | A Contactless On-bed Radar System for Human Respiration Monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1                        | 5.2 | 0 |
| 3 | Wearable Inertial Sensor-Based Limb Lameness Detection and Pose Estimation for Horses. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2022</b> , 1-15 | 4.9 | 0 |
| 2 | A Framework for Remote Interaction and Management of Home Care Elderly Adults. <i>IEEE Sensors Journal</i> , <b>2022</b> , 1-1   | 4   |   |
| 1 | Autonomous Bikebot Control for Crossing Obstacles With Assistive Leg Impulsive Actuation. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2022</b> , 1-9                | 5.5 |   |