

# Bin Yao

## List of Publications by Year in descending order

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docs citations

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citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Precision Motion Control of an Independent Metering Hydraulic System With Nonlinear Flow Modeling and Compensation. IEEE Transactions on Industrial Electronics, 2022, 69, 7088-7098.   | 5.2 | 19        |
| 2  | Desired compensation adaptive robust repetitive control of a multi-DoFs industrial robot. ISA Transactions, 2022, 128, 556-564.   | 3.1 | 5         |
| 3  | Geometric Adaptive Robust Hierarchical Control for Quadrotors With Aerodynamic Damping and Complete Inertia Compensation. IEEE Transactions on Industrial Electronics, 2022, 69, 13213-13224.                                   | 5.2 | 4         |
| 4  | Unified Method for Task-Space Motion/Force/Impedance Control of Manipulator With Unknown Contact Reaction Strategy. IEEE Robotics and Automation Letters, 2022, 7, 1478-1485.   | 3.3 | 10        |
| 5  | A Telepresence-Guaranteed Control Scheme for Teleoperation Applications of Transferring Weight-Unknown Objects. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1015-1025.  | 8.5 | 3         |
| 6  | Global-Position Tracking Control for Three-Dimensional Bipedal Robots Via Virtual Constraint Design and Multiple Lyapunov Analysis. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, 144, . | 0.9 | 2         |
| 7  | Advanced Valves and Pump Coordinated Hydraulic Control Design to Simultaneously Achieve High Accuracy and High Efficiency. IEEE Transactions on Control Systems Technology, 2021, 29, 236-248.                                  | 3.2 | 61        |
| 8  | Fast and Accurate Motion Tracking of a Linear Motor System Under Kinematic and Dynamic Constraints: An Integrated Planning and Control Approach. IEEE Transactions on Control Systems Technology, 2021, 29, 804-811.            | 3.2 | 48        |
| 9  | Precision Motion Control of Constrained SISO Nonlinear System via Direct Optimized Compensation. , 2021, , .  |     | 1         |
| 10 | Hybrid Reference Governor-Based Adaptive Robust Control of a Linear Motor Driven System. , 2021, , .  |     | 4         |
| 11 | Energy-saving and accurate motion control of a hydraulic actuator with uncertain negative loads. Chinese Journal of Aeronautics, 2021, 34, 253-264.   | 2.8 | 23        |
| 12 | Direct Optimization Based Compensation Adaptive Robust Control of Nonlinear Systems With State and Input Constraints. IEEE Transactions on Industrial Informatics, 2021, 17, 5441-5449.   | 7.2 | 13        |
| 13 | Unified Motion/Force/Impedance Control for Manipulators in Unknown Contact Environments Based on Robust Model-Reaching Approach. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1905-1913.                                   | 3.7 | 24        |
| 14 | Accurate Motion Control of a Direct-Drive Hydraulic System With an Adaptive Nonlinear Pump Flow Compensation. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2593-2603.  | 3.7 | 39        |
| 15 | Adaptive Fuzzy Backstepping Control for Stable Nonlinear Bilateral Teleoperation Manipulators With Enhanced Transparency Performance. IEEE Transactions on Industrial Electronics, 2020, 67, 746-756.                           | 5.2 | 154       |
| 16 | Integrated Coordinated/Synchronized Contouring Control of a Dual-Linear-Motor-Driven Gantry. IEEE Transactions on Industrial Electronics, 2020, 67, 3944-3954.  | 5.2 | 85        |
| 17 | Decoupled Torque Control of Series Elastic Actuator With Adaptive Robust Compensation of Time-Varying Load-Side Dynamics. IEEE Transactions on Industrial Electronics, 2020, 67, 5604-5614.                                     | 5.2 | 33        |
| 18 | Precision Motion Control of a Servomotor-Pump Direct-Drive Electrohydraulic System With a Nonlinear Pump Flow Mapping. IEEE Transactions on Industrial Electronics, 2020, 67, 8638-8648.  | 5.2 | 58        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | RBF-Neural-Network-Based Adaptive Robust Control for Nonlinear Bilateral Teleoperation Manipulators With Uncertainty and Time Delay. IEEE/ASME Transactions on Mechatronics, 2020, 25, 906-918.                     | 3.7 | 158       |
| 20 | Development of parallel-connected pump&quot;valve-coordinated control unit with improved performance and efficiency. Mechatronics, 2020, 70, 102419.  | 2.0 | 10        |
| 21 | Precision Motion Control of a 6-DoFs Industrial Robot With Accurate Payload Estimation. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1821-1829.  | 3.7 | 35        |
| 22 | Adaptive Robust Motion Control of a Pump Direct Drive Electro-hydraulic System with Meter-Out Pressure Regulation. IFAC-PapersOnLine, 2020, 53, 9005-9010.  | 0.5 | 7         |
| 23 | Energy Saving Motion Control of Independent Metering Valves and Pump Combined Hydraulic System. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1909-1920.  | 3.7 | 38        |
| 24 | Optimization-based motion planning of mobile manipulator with high degree of kinematic redundancy. International Journal of Intelligent Robotics and Applications, 2019, 3, 115-130.                                | 1.6 | 21        |
| 25 | Constrained Time-Optimal Motion Control of a Linear Motor Driven System: Theory and Experiments. , 2019, , .  |     | 0         |
| 26 | A General Online Trajectory Planning Framework in the Case of Desired Function Unknown in Advance. IEEE Transactions on Industrial Informatics, 2019, 15, 2753-2762.  | 7.2 | 15        |
| 27 | Development of Pump and Valves Combined Hydraulic System for Both High Tracking Precision and High Energy Efficiency. IEEE Transactions on Industrial Electronics, 2019, 66, 7189-7198.                             | 5.2 | 71        |
| 28 | Identification and adaptive robust precision motion control of systems with nonlinear friction. Nonlinear Dynamics, 2019, 95, 995-1007.   | 2.7 | 12        |
| 29 | Model-Based Coordinated Control of Four-Wheel Independently Driven Skid Steer Mobile Robot with Wheel&quot;Ground Interaction and Wheel Dynamics. IEEE Transactions on Industrial Informatics, 2019, 15, 1742-1752. | 7.2 | 63        |
| 30 | Exponential Stabilization of Fully Actuated Planar Bipedal Robotic Walking With Global Position Tracking Capabilities. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .  | 0.9 | 25        |
| 31 | Advanced Synchronization Control of a Dual-Linear-Motor-Driven Gantry With Rotational Dynamics. IEEE Transactions on Industrial Electronics, 2018, 65, 7526-7535.   | 5.2 | 86        |
| 32 | Precision Cascade Force Control of Multi-DOF Hydraulic Leg Exoskeleton. IEEE Access, 2018, 6, 8574-8583.  | 2.6 | 18        |
| 33 | Adaptive Robust Synchronization Control of a Dual-Linear-Motor-Driven Gantry With Rotational Dynamics and Accurate Online Parameter Estimation. IEEE Transactions on Industrial Informatics, 2018, 14, 3013-3022.   | 7.2 | 42        |
| 34 | Modular Development of Master-Slave Asymmetric Teleoperation Systems With a Novel Workspace Mapping Algorithm. IEEE Access, 2018, 6, 15356-15364.   | 2.6 | 18        |
| 35 | High Precision Energy Saving Motion Control of Hydraulic Cylinder Based on Integration of Valves and Pump. , 2018, , .  |     | 1         |
| 36 | Online Trajectory Planning based Motion Control of a Teleoperation Robot System*. , 2018, , .   |     | 0         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Adaptive Robust Control of a 7-DoFs Teleoperation Robot System With Payload Variations and Disturbances. , 2018, , .   |     | 3         |
| 38 | Modeling and Synchronization Control of a Dual Drive Industrial Gantry Stage. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2940-2951.   | 3.7 | 27        |
| 39 | Optimization of Output Functions with Nonholonomic Virtual Constraints in Underactuated Bipedal Walking Control. , 2018, , .   |     | 1         |
| 40 | An Improved Online Trajectory Planner With Stability-Guaranteed Critical Test Curve Algorithm for Generalized Parametric Constraints. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2459-2469. | 3.7 | 23        |
| 41 | Adaptive thrust allocation based synchronization control of a dual drive gantry stage. Mechatronics, 2018, 54, 68-77.  | 2.0 | 9         |
| 42 | High precision and high efficiency control of pump and valves combined hydraulic system. , 2018, , .   |     | 1         |
| 43 | Performance-Oriented Coordinated Adaptive Robust Control for Four-Wheel Independently Driven Skid Steer Mobile Robot. IEEE Access, 2017, 5, 19048-19057.   | 2.6 | 36        |
| 44 | High-performance adaptive robust control with balanced torque allocation for the over-actuated cutter-head driving system in tunnel boring machine. Mechatronics, 2017, 46, 168-176.               | 2.0 | 18        |
| 45 | Adaptive robust control of skid steer mobile robot with independent driving torque allocation. , 2017, , .   |     | 2         |
| 46 | Time-dependent orbital stabilization of underactuated bipedal walking. , 2017, , .   |     | 3         |
| 47 | Time Optimal Contouring Control of Industrial Biaxial Gantry: A Highly Efficient Analytical Solution of Trajectory Planning. IEEE/ASME Transactions on Mechatronics, 2017, 22, 247-257.            | 3.7 | 118       |
| 48 | Adaptive Robust Cascade Force Control of 1-DOF Hydraulic Exoskeleton for Human Performance Augmentation. IEEE/ASME Transactions on Mechatronics, 2017, 22, 589-600.                                | 3.7 | 66        |
| 49 | Adaptive Robust Control of a Pump Control Hydraulic System. , 2017, , .  |     | 6         |
| 50 | Modeling and synchronized motion control of a dual-linear-motor-driven gantry by considering rotational dynamics. , 2017, , .  |     | 2         |
| 51 | Indirect output voltage regulation of DC-DC boost converter with accurate parameter estimation. , 2017, , .  |     | 1         |
| 52 | Newton-AGTCF reference trajectory modification scheme for precision biaxial contouring motion control. , 2017, , .   |     | 0         |
| 53 | Desired compensation neural network adaptive robust control of an industrial linear motor motion system with comparative experimental investigation. , 2016, , .                                   |     | 4         |
| 54 | Cascade force control of lower limb hydraulic exoskeleton for human performance augmentation. , 2016, , .  |     | 2         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Adaptive robust motion control of uncertain manipulators through immersion and invariance adaptive visual servoing. , 2016, , .   |     | 2         |
| 56 | Modeling and performance analysis of a magnetorheological fluid actuation system. , 2016, , .   |     | 1         |
| 57 | Development of an end-effector mounted tracking methodology for feedback control of high precision 3-DOF planar motions. , 2016, , .  |     | 0         |
| 58 | Non-linear sliding mode control of the lower extremity exoskeleton based on human-robot cooperation. International Journal of Advanced Robotic Systems, 2016, 13, 172988141666278.    | 1.3 | 26        |
| 59 | Precision NNLC motion controller design for industrial mechatronic systems under complicated disturbances: A case study with comparative experiments. , 2016, , .                     |     | 0         |
| 60 | Development of a Passive Compliant Mechanism for Measurement of Micro/Nanoscale Planar 3-DOF Motions. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1222-1232.                    | 3.7 | 38        |
| 61 | Feasible Center of Mass Dynamic Manipulability of humanoid robots. , 2015, , .  |     | 9         |
| 62 | Analysis and compensation of nonlinear friction effect on frequency identification. , 2015, , .   |     | 4         |
| 63 | Dual drive system modeling and analysis for synchronous control of an H-type gantry. , 2015, , .  |     | 13        |
| 64 | A 3-level adaptive robust control strategy for autonomous mobile robots. , 2015, , .  |     | 1         |
| 65 | Adaptive robust wing trajectory control and force generation of flapping wing MAV. , 2015, , .  |     | 9         |
| 66 | $\mu$ -Synthesis-Based Adaptive Robust Control of Linear Motor Driven Stages With High-Frequency Dynamics: A Case Study. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1482-1490. | 3.7 | 223       |
| 67 | Integrated design of speed sensorless control algorithms for induction motors. , 2015, , .  |     | 1         |
| 68 | Energy-Saving Adaptive Robust Control of a Hydraulic Manipulator Using Five Cartridge Valves With an Accumulator. IEEE Transactions on Industrial Electronics, 2014, 61, 7046-7054.   | 5.2 | 70        |
| 69 | A performance oriented multi-loop constrained adaptive robust tracking control of one-degree-of-freedom mechanical systems: Theory and experiments. Automatica, 2014, 50, 1143-1150.  | 3.0 | 23        |
| 70 | Adaptive robust synchronous control with dynamic thrust allocation of dual drive gantry stage. , 2014, , .  |     | 12        |
| 71 | Nonlinear adaptive robust backstepping force control of hydraulic load simulator: Theory and experiments. Journal of Mechanical Science and Technology, 2014, 28, 1499-1507.          | 0.7 | 50        |
| 72 | Adaptive robust torque control of electric load simulator with strong position coupling disturbance. International Journal of Control, Automation and Systems, 2013, 11, 325-332.     | 1.6 | 27        |

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|----|--|-----|-----------|
| 73 | Performance-Oriented Adaptive Robust Control of a Class of Nonlinear Systems Preceded by Unknown Dead Zone With Comparative Experimental Results. IEEE/ASME Transactions on Mechatronics, 2013, 18, 178-189. | 3.7 | 73        |
| 74 | Adaptive Robust Vibration Control of Full-Car Active Suspensions With Electrohydraulic Actuators. IEEE Transactions on Control Systems Technology, 2013, 21, 2417-2422.                                      | 3.2 | 209       |
| 75 | Accurate Motion Control of Linear Motors With Adaptive Robust Compensation of Nonlinear Electromagnetic Field Effect. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1122-1129.                           | 3.7 | 204       |
| 76 | Adaptive Robust Precision Motion Control of Linear Motors With Integrated Compensation of Nonlinearities and Bearing Flexible Modes. IEEE Transactions on Industrial Informatics, 2013, 9, 965-973.          | 7.2 | 89        |
| 77 | A Two-Loop Performance-Oriented Tip-Tracking Control of a Linear-Motor-Driven Flexible Beam System With Experiments. IEEE Transactions on Industrial Electronics, 2013, 60, 1011-1022.                       | 5.2 | 67        |
| 78 | A two-loop contour tracking control for biaxial servo systems with constraints and uncertainties. , 2013, , .  |     | 11        |
| 79 | Adaptive robust tip tracking control of a class of flexible beams. , 2012, , .   |     | 2         |
| 80 | Fault detection and accommodation of a class of nonlinear systems. , 2012, , .   |     | 0         |
| 81 | Dual loop control of cable-conduit actuated devices. , 2012, , .   |     | 5         |
| 82 | Adaptive Robust Synchronous Motion Control of Dual Parallel Linear Motor Driven Stage. , 2012, , .   |     | 6         |
| 83 | An Orthogonal Global Task Coordinate Frame for Contouring Control of Biaxial Systems. IEEE/ASME Transactions on Mechatronics, 2012, 17, 622-634.   | 3.7 | 102       |
| 84 | Adaptive robust control of mobile satellite communication system with disturbance and model uncertainties. Journal of Systems Engineering and Electronics, 2012, 23, 761-767.                                | 1.1 | 3         |
| 85 | Adaptive control for nonlinear system with unknown hysteresis. , 2012, , .   |     | 3         |
| 86 | Modeling and nonlinear computed torque control of ship-mounted mobile satellite communication system. International Journal of Automation and Computing, 2012, 9, 459-466.                                   | 4.5 | 4         |
| 87 | Robust Control for Static Loading of Electro-hydraulic Load Simulator with Friction Compensation. Chinese Journal of Aeronautics, 2012, 25, 954-962.   | 2.8 | 71        |
| 88 | Adaptive robust precision motion control of linear motors with high frequency flexible modes. , 2012, , .  |     | 2         |
| 89 | Global stabilization of a chain of integrators with input saturation and disturbances: A new approach. Automatica, 2012, 48, 1389-1396.  | 3.0 | 57        |
| 90 | Nonlinear Adaptive Robust Force Control of Hydraulic Load Simulator. Chinese Journal of Aeronautics, 2012, 25, 766-775.  | 2.8 | 98        |

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|-----|--|-----|-----------|
| 91  | An adaptive robust observer for velocity estimation in an electro-hydraulic system. International Journal of Adaptive Control and Signal Processing, 2012, 26, 1076-1089.                                | 2.3 | 21        |
| 92  | Adaptive Robust Repetitive Control of an Industrial Biaxial Precision Gantry for Contouring Tasks. IEEE Transactions on Control Systems Technology, 2011, 19, 1559-1568.                                 | 3.2 | 65        |
| 93  | Adaptive Robust Precision Motion Control of a High-Speed Industrial Gantry With Cogging Force Compensations. IEEE Transactions on Control Systems Technology, 2011, 19, 1149-1159.                       | 3.2 | 90        |
| 94  | Indirect Adaptive Robust Control of Hydraulic Manipulators With Accurate Parameter Estimates. IEEE Transactions on Control Systems Technology, 2011, 19, 567-575.  | 3.2 | 197       |
| 95  | Adaptive Robust Precision Motion Control of Systems With Unknown Input Dead-Zones: A Case Study With Comparative Experiments. IEEE Transactions on Industrial Electronics, 2011, 58, 2454-2464.          | 5.2 | 107       |
| 96  | Global Task Coordinate Frame-Based Contouring Control of Linear-Motor-Driven Biaxial Systems With Accurate Parameter Estimations. IEEE Transactions on Industrial Electronics, 2011, 58, 5195-5205.      | 5.2 | 74        |
| 97  | Integrated Direct/Indirect Adaptive Robust Control of Hydraulic Manipulators With Valve Deadband. IEEE/ASME Transactions on Mechatronics, 2011, 16, 707-715.   | 3.7 | 157       |
| 98  | Observer-Based Adaptive Robust Control of Friction Stir Welding Axial Force. IEEE/ASME Transactions on Mechatronics, 2011, 16, 1032-1039.  | 3.7 | 36        |
| 99  | Accommodation of unknown actuator faults using output feedback-based adaptive robust control. International Journal of Adaptive Control and Signal Processing, 2011, 25, 965-982.                        | 2.3 | 20        |
| 100 | Experimental investigation on high-performance coordinated motion control of high-speed biaxial systems for contouring tasks. International Journal of Machine Tools and Manufacture, 2011, 51, 677-686. | 6.2 | 15        |
| 101 | Adaptive robust actuator fault-tolerant control in presence of input saturation. , 2011, , .   |     | 5         |
| 102 | Output feedback based adaptive robust fault-tolerant control for a class of uncertain nonlinear systems. Journal of Systems Engineering and Electronics, 2011, 22, 38-51.                                | 1.1 | 22        |
| 103 | Globally stable fast tracking control of a chain of integrators with input saturation and disturbances: A holistic approach. , 2011, , .   |     | 4         |
| 104 | High-performance coordinated motion control of high-speed biaxial systems for contouring tasks with comparative experimental investigations. , 2011, , .   |     | 0         |
| 105 | Adaptive robust precision motion control of linear motors with electromagnetic nonlinearity compensation. , 2011, , .  |     | 3         |
| 106 | Global TCF based contouring controller design for an industrial biaxial precision gantry with accurate parameter estimations. , 2011, , .  |     | 0         |
| 107 | Global stabilization of a chain of integrators with input saturation and disturbances. , 2011, , .   |     | 7         |
| 108 | High bandwidth adaptive robust control for hydraulic rotary actuator. , 2011, , .  |     | 1         |

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|-----|--|-----|-----------|
| 109 | Coordinated Adaptive Robust Contouring Controller Design for an Industrial Biaxial Precision Gantry. IEEE/ASME Transactions on Mechatronics, 2010, 15, 728-735.  | 3.7 | 78        |
| 110 | Adaptive robust control of a class of nonlinear systems in semi-strict feedback form with non-uniformly detectable unmeasured internal states. International Journal of Adaptive Control and Signal Processing, 2010, 24, 961-981. | 2.3 | 5         |
| 111 | Integrated direct/indirect adaptive robust contouring control of a biaxial gantry with accurate parameter estimations. Automatica, 2010, 46, 701-707.  | 3.0 | 61        |
| 112 | Modeling of Transmission Characteristics Across a Cable-Conduit System. IEEE Transactions on Robotics, 2010, 26, 914-924.  | 7.3 | 122       |
| 113 | Contouring control of biaxial systems based on a new task coordinate frame. , 2010, , .  |     | 2         |
| 114 | Reaction force estimation of surgical robot instrument using perturbation observer with SMCSPPO algorithm. , 2010, , .   |     | 22        |
| 115 | Observer-based adaptive robust control of friction stir welding axial force. , 2010, , .   |     | 6         |
| 116 | Control of cable actuated devices using smooth backlash inverse. , 2010, , .   |     | 59        |
| 117 | Experimental design for identification of nonlinear systems with bounded uncertainties. , 2010, , .  |     | 5         |
| 118 | A case study for adaptive robust precision motion control of systems preceded by unknown dead-zones with comparative experiments. , 2010, , .  |     | 1         |
| 119 | Coordinated Adaptive Robust Contouring Control of an Industrial Biaxial Precision Gantry With Cogging Force Compensations. IEEE Transactions on Industrial Electronics, 2010, 57, 1746-1754.                                       | 5.2 | 84        |
| 120 | Teleoperation of a Mobile Robot Using a Force-Reflection Joystick With Sensing Mechanism of Rotating Magnetic Field. IEEE/ASME Transactions on Mechatronics, 2010, 15, 17-26.  | 3.7 | 73        |
| 121 | System identification, modeling and precision motion control of a linear motor drive stage. , 2010, , .  |     | 5         |
| 122 | Advanced motion control: From classical PID to nonlinear adaptive robust control. , 2010, , .  |     | 62        |
| 123 | Adaptive robust control of linear electrical loading system with dynamic friction compensation. , 2010, , .  |     | 13        |
| 124 | Adaptive Robust Control for a Class of Nonlinear Uncertain System With Unknown Input Backlash. , 2009, , .   |     | 3         |
| 125 | High performance adaptive robust control for nonlinear system with unknown input backlash. , 2009, , .   |     | 8         |
| 126 | Adaptive robust control of a class of nonlinear systems in semi-strict feedback form with non-uniformly detectable unmeasured internal states. , 2009, , .   |     | 0         |



| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 127 | Integrated direct/indirect adaptive robust control of a class of nonlinear systems preceded by unknown dead-zone nonlinearity. , 2009, , .   |     | 4         |
| 128 | Coordinated contouring controller design for an industrial biaxial linear motor driven gantry. , 2009, , .   |     | 5         |
| 129 | Set-membership identification based adaptive robust control of systems with unknown parameter bounds. , 2009, , .  |     | 1         |
| 130 | Characterization and Attenuation of Sandwiched Deadband Problem Using Describing Function Analysis and Application to Electrohydraulic Systems Controlled by Closed-Center Valves. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, . | 0.9 | 3         |
| 131 | Desired Compensation Adaptive Robust Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, .  | 0.9 | 57        |
| 132 | Adaptive robust control of nonlinear systems with dynamic uncertainties. International Journal of Adaptive Control and Signal Processing, 2009, 23, 353-377.   | 2.3 | 15        |
| 133 | Adaptive robust control of linear motors with dynamic friction compensation using modified LuGre model. Automatica, 2009, 45, 2890-2896.   | 3.0 | 157       |
| 134 | Adaptive robust control for nonlinear system with input backlash or backlash-like hysteresis. , 2009, , .  |     | 9         |
| 135 | Integrated Direct/Indirect Adaptive Robust Posture Trajectory Tracking Control of a Parallel Manipulator Driven by Pneumatic Muscles. IEEE Transactions on Control Systems Technology, 2009, 17, 576-588.  | 3.2 | 59        |
| 136 | Synchronization strategy research of pneumatic servo system based on separate control of meter-in and meter-out. , 2009, , .   |     | 1         |
| 137 | An Output Feedback Based Adaptive Robust Fault Tolerant Control Scheme for a Class of Nonlinear Systems. , 2009, , .   |     | 1         |
| 138 | Indirect Adaptive Robust Control of Uncertain Systems With Unknown Asymmetric Input Deadband Using a Smooth Inverse. , 2009, , .   |     | 0         |
| 139 | Desired Compensation Adaptive Robust Contouring Control of an Industrial Biaxial Precision Gantry Subject to Cogging Forces. , 2009, , .   |     | 0         |
| 140 | Adaptive robust posture control of a parallel manipulator driven by pneumatic muscles. Automatica, 2008, 44, 2248-2257.  | 3.0 | 126       |
| 141 | Coordinate Control of Energy Saving Programmable Valves. IEEE Transactions on Control Systems Technology, 2008, 16, 34-45.   | 3.2 | 92        |
| 142 | Adaptive Robust Posture Control of Parallel Manipulator Driven by Pneumatic Muscles With Redundancy. IEEE/ASME Transactions on Mechatronics, 2008, 13, 441-450.  | 3.7 | 90        |
| 143 | Desired Compensation Adaptive Robust Control of a Linear-Motor-Driven Precision Industrial Gantry With Improved Cogging Force Compensation. IEEE/ASME Transactions on Mechatronics, 2008, 13, 617-624.   | 3.7 | 111       |
| 144 | Adaptive Robust Precision Motion Control of a Piezoelectric Positioning Stage. IEEE Transactions on Control Systems Technology, 2008, 16, 1039-1046.   | 3.2 | 93        |

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|-----|---|-----|-----------|
| 145 | Modeling of a closed loop cable-conduit transmission system. , 2008, , .  |     | 33        |
| 146 | Adaptive robust control of linear motor systems with dynamic friction compensation using modified LuGre Model. , 2008, , .  |     | 24        |
| 147 | Adaptive robust control of a class of uncertain nonlinear systems with unknown sinusoidal disturbances. , 2008, , .   |     | 4         |
| 148 | Accommodation of partial actuator faults using output feedback based adaptive robust control. , 2008, , .   |     | 2         |
| 149 | An Adaptive Robust Scheme for Multiple Actuator Fault Accommodation. , 2008, , .  |     | 7         |
| 150 | Adaptive Robust Control of a Linear Motor Driven Precision Industrial Gantry With Improved Cogging Force Compensation. , 2008, , .  |     | 2         |
| 151 | Using Control Theory for Load Shedding in Data Stream Management. , 2007, , .   |     | 3         |
| 152 | Integrated Direct/Indirect Adaptive Robust Control of Multi-DOF Hydraulic Robotic Arms. , 2007, , 841.  |     | 2         |
| 153 | A Globally Stable High-Performance Adaptive Robust Control Algorithm With Input Saturation for Precision Motion Control of Linear Motor Drive Systems. IEEE/ASME Transactions on Mechatronics, 2007, 12, 198-207. | 3.7 | 75        |
| 154 | Adaptive robust precision motion control of high-speed linear motors with on-line cogging force compensations. , 2007, , .  |     | 8         |
| 155 | Adaptive Robust Posture Control of a Pneumatic Muscles Driven Parallel Manipulator with Redundancy. Proceedings of the American Control Conference, 2007, , .   | 0.0 | 9         |
| 156 | Fault detection for nonlinear systems in presence of input unmodeled dynamics. , 2007, , .  |     | 3         |
| 157 | A globally stable saturated desired compensation adaptive robust control for linear motor systems with comparative experiments. Automatica, 2007, 43, 1840-1848.  | 3.0 | 78        |
| 158 | New Approach of Tracking Control for a Class of Non-Minimum Phase Linear Systems. , 2007, , .   |     | 0         |
| 159 | Fault Detection for a Class of Nonlinear Systems in Presence of Unmodeled Dynamics and Parametric Uncertainties Using Adaptive Robust Observers. , 2007, , .  |     | 0         |
| 160 | Output Feedback Neural Network Adaptive Robust Control With Application to Linear Motor Drive System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2006, 128, 227.              | 0.9 | 9         |
| 161 | Automated onboard modeling of cartridge valve flow mapping. IEEE/ASME Transactions on Mechatronics, 2006, 11, 381-388.  | 3.7 | 32        |
| 162 | Modeling and Simulation of a Modern PEM Fuel Cell System. , 2006, , 133.  |     | 11        |

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|-----|---|-----|-----------|
| 163 | Output Feedback Adaptive Robust Control of Uncertain Linear Systems With Disturbances. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2006, 128, 938.     | 0.9 | 21        |
| 164 | Robust output feedback stabilization of a class of nonminimum phase nonlinear systems. , 2006, , .  |     | 3         |
| 165 | A globally stable saturated desired compensation adaptive robust control for linear motor systems with comparative experiments. , 2006, , .   |     | 5         |
| 166 | On-Board System Identification of Systems With Unknown Input Nonlinearity and System Parameters. , 2005, , 1079.  |     | 3         |
| 167 | Multi-Objective Optimization of Tip Tracking Control Using LMI. , 2005, , 1533.   |     | 11        |
| 168 | Multirate Adaptive Robust Control for Discrete-Time Non-Minimum Phase Systems and Application to Linear Motors. IEEE/ASME Transactions on Mechatronics, 2005, 10, 371-377.                | 3.7 | 47        |
| 169 | Adaptive Robust Repetitive Control of Piezoelectric Actuators. , 2005, , .  |     | 0         |
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