

# Wenshan Hu

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

1,415  
citations

331670

21  
h-index

345221

36  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1130  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Blockchain Protocol-Based Predictive Secure Control for Networked Systems. IEEE Transactions on Industrial Electronics, 2023, 70, 783-792.  | 7.9  | 15        |
| 2  | Unified and Flexible Online Experimental Framework for Control Engineering Education. IEEE Transactions on Industrial Electronics, 2022, 69, 835-844.   | 7.9  | 26        |
| 3  | Design of Networked Secure and Real-Time Control Based on Blockchain Techniques. IEEE Transactions on Industrial Electronics, 2022, 69, 4096-4106.  | 7.9  | 10        |
| 4  | Design and implementation of C-MEX S-functions in an Android-based networked control system laboratory. Transactions of the Institute of Measurement and Control, 2022, 44, 188-197.                  | 1.7  | 6         |
| 5  | Toward a Web-Based Digital Twin Thermal Power Plant. IEEE Transactions on Industrial Informatics, 2022, 18, 1716-1725.  | 11.3 | 57        |
| 6  | Teaching and Comprehensive Learning With Remote Laboratories and MATLAB for an Undergraduate System Identification Course. IEEE Transactions on Education, 2022, 65, 402-408.                         | 2.4  | 10        |
| 7  | Design of Wireless Individual-Drive System for Variable-Reluctance Stepping Motor. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2141-2145.                                 | 3.0  | 11        |
| 8  | Security tracking control for discrete-time stochastic systems subject to cyber attacks. ISA Transactions, 2022, 127, 133-145.  | 5.7  | 13        |
| 9  | Learning with remote laboratories: Designing control algorithms with both block diagrams and customized C code schemes. Computer Applications in Engineering Education, 2022, 30, 1561-1576.          | 3.4  | 5         |
| 10 | Unified 3-D Interactive Human-Centered System for Online Experimentation: Current Deployment and Future Perspectives. IEEE Transactions on Industrial Informatics, 2021, 17, 4777-4787.               | 11.3 | 27        |
| 11 | Input-Series Output-Equivalent-Parallel Multi-Inverter System for High-Voltage and High-Power Wireless Power Transfer. IEEE Transactions on Power Electronics, 2021, 36, 228-238.                     | 7.9  | 37        |
| 12 | Design and Analysis of a New Hybrid Wireless Power Transfer System With a Space-Saving Coupler Structure. IEEE Transactions on Power Electronics, 2021, 36, 5069-5081.                                | 7.9  | 29        |
| 13 | Online Learning Based Voltage and Power Regulator for AC Microgrids. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1318-1322.   | 3.0  | 18        |
| 14 | Modeling and Phase Synchronization Control of High-Power Wireless Power Transfer System Supplied By Modular Parallel Multi-Inverters. IEEE Transactions on Vehicular Technology, 2021, 70, 6450-6462. | 6.3  | 13        |
| 15 | Design and implementation of virtual experiment for complex control system: A case study of thermal control process. IET Generation, Transmission and Distribution, 2021, 15, 3270-3283.              | 2.5  | 6         |
| 16 | Multi-Inverter Phase-Shifted Control for IPT With Overlapped Transmitters. IEEE Transactions on Power Electronics, 2021, 36, 8799-8811.   | 7.9  | 16        |
| 17 | 3-D Interactive Control Laboratory for Classroom Demonstration and Online Experimentation in Engineering Education. IEEE Transactions on Education, 2021, 64, 276-282.                                | 2.4  | 17        |
| 18 | From Virtual Simulation to Digital Twins in Online Laboratories. , 2021, , ,  |      | 9         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Big Data Assessment Methods for Studentsâ€™ Online Laboratory Work Based on NCSLab. , 2021, , .   |     | 1         |
| 20 | Power Forecasting of Wind Turbines Based on Multi-Input Predictors and Wind Speed Variation Trends. , 2021, , .   |     | 0         |
| 21 | Design and Implementation of Cloud-based Networked Control Experimental Instrument for Control Engineering Education. , 2021, , .   |     | 1         |
| 22 | Interactive and Visualized Online Experimentation System for Engineering Education and Research. Journal of Visualized Experiments, 2021, , .                                       | 0.3 | 3         |
| 23 | Protection Strategy for Wireless Charging Electrical Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 13510-13520.  | 6.3 | 7         |
| 24 | Wired/Wireless Hybrid Charging System for Electrical Vehicles With Minimum Rated Power Requirement for DC Module. IEEE Transactions on Vehicular Technology, 2020, 69, 10889-10898. | 6.3 | 13        |
| 25 | Design and Implementation of an Android-based Control Laboratory. , 2020, , .   |     | 1         |
| 26 | Cost-Effective Server-side Re-deployment for Web-based Online Laboratories Using NGINX Reverse Proxy. IFAC-PapersOnLine, 2020, 53, 17204-17209.                                     | 0.9 | 1         |
| 27 | A Method of Remote Experiment for Complex Energy System: An Example for Process Control Experiment of Thermal Power Plants. , 2020, , .   |     | 1         |
| 28 | Seamless Transfer Control Strategy of Multi-Energy Complementary Microgrid. , 2020, , .   |     | 0         |
| 29 | Network-Design of Virtual Drum Boiler Feedwater Control System. , 2020, , .   |     | 0         |
| 30 | Frequency Optimization for Inductive Power Transfer Based on AC Resistance Evaluation in Litz-Wire Coil. IEEE Transactions on Power Electronics, 2019, 34, 2355-2363.               | 7.9 | 25        |
| 31 | Combining MOOL with MOOC to Promote Control Engineering Education: Experience with NCSLab. IFAC-PapersOnLine, 2019, 52, 236-241.  | 0.9 | 8         |
| 32 | Non-Intrusive Load Identification Method Based on Improved KM Algorithm. IEEE Access, 2019, 7, 151368-151377.   | 4.2 | 17        |
| 33 | Design of Networked Control System for Submersible Pump. , 2019, , .  |     | 0         |
| 34 | Frequency Stability of Active Distribution Networks with Large-scale DESUs. , 2019, , .   |     | 1         |
| 35 | Real-Time Data Transmission Method Based on WebSocket Protocol for Networked Control System Laboratory. , 2019, , .   |     | 0         |
| 36 | Modeling and Control of Inductive Power Transfer System Supplied by Multiphase Phase-Controlled Inverter. IEEE Transactions on Power Electronics, 2019, 34, 9303-9315.              | 7.9 | 40        |

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|----|---|------|-----------|
| 37 | Modular Parallel Multi-Inverter System for High-Power Inductive Power Transfer. IEEE Transactions on Power Electronics, 2019, 34, 9422-9434.  | 7.9  | 37        |
| 38 | Natural Frequency Optimization of Wireless Power Systems on Power Transmission Lines. IEEE Access, 2018, 6, 14038-14047.  | 4.2  | 21        |
| 39 | HTML5-Based 3-D Online Control Laboratory With Virtual Interactive Wiring Practice. IEEE Transactions on Industrial Informatics, 2018, 14, 2473-2483.                                 | 11.3 | 30        |
| 40 | Modular Web-Based Interactive Hybrid Laboratory Framework for Research and Education. IEEE Access, 2018, 6, 20152-20163.  | 4.2  | 26        |
| 41 | Sampled intermittent control for consensus of multi-agent systems with variable activated intervals. Transactions of the Institute of Measurement and Control, 2018, 40, 1521-1528.   | 1.7  | 1         |
| 42 | Integrating a Wireless Power Transfer System into Online Laboratory: Example with NCSLab. Lecture Notes in Networks and Systems, 2018, , 278-289.                                     | 0.7  | 4         |
| 43 | On-site Smart Operation and Maintenance System for Substation Equipment Based on Mobile Network. International Journal of Online Engineering, 2018, 14, 66.                           | 0.5  | 3         |
| 44 | Front-end and Back-end Separation - React Based Framework for Networked Remote Control Laboratory. , 2018, , .  |      | 7         |
| 45 | Modeling and Synchronization Stability of Low-Voltage Active Distribution Networks With Large-Scale Distributed Generations. IEEE Access, 2018, 6, 70989-71002.                       | 4.2  | 13        |
| 46 | Modeling and Decoupled Control of Inductive Power Transfer to Implement Constant Current/Voltage Charging and ZVS Operating for Electric Vehicles. IEEE Access, 2018, 6, 59917-59928. | 4.2  | 30        |
| 47 | Networked Closed-Loop Model for Smart On-Site Maintenance of Substation Equipment Using Mobile Networks. Journal of Control Science and Engineering, 2018, 2018, 1-8.                 | 1.0  | 1         |
| 48 | Capacitive power transfer through virtual self-capacitance route. IET Power Electronics, 2018, 11, 1110-1118.   | 2.1  | 14        |
| 49 | An Inductive Power Transfer System Supplied by a Multiphase Parallel Inverter. IEEE Transactions on Industrial Electronics, 2017, 64, 7039-7048.                                      | 7.9  | 63        |
| 50 | Plug-in Free Web-Based 3-D Interactive Laboratory for Control Engineering Education. IEEE Transactions on Industrial Electronics, 2017, 64, 3808-3818.                                | 7.9  | 63        |
| 51 | Sampled containment control for multi-agent systems with nonlinear dynamics. Neurocomputing, 2017, 219, 242-247.  | 5.9  | 15        |
| 52 | Deployment of a Web-based Control Laboratory Using HTML5. International Journal of Online Engineering, 2016, 12, 18.  | 0.5  | 6         |
| 53 | edge position detection of on-line vehicles with segmental wireless power supply. IEEE Transactions on Vehicular Technology, 2016, , 1-1.   | 6.3  | 28        |
| 54 | Droop-Based Distributed Cooperative Control for Microgrids With Time-Varying Delays. IEEE Transactions on Smart Grid, 2016, 7, 1775-1789.   | 9.0  | 268       |

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|----|--|-----|-----------|
| 55 | Frequency-Dependent Resistance of Litz-Wire Square Solenoid Coils and Quality Factor Optimization for Wireless Power Transfer. IEEE Transactions on Industrial Electronics, 2016, 63, 2825-2837. | 7.9 | 100       |
| 56 | Smart Demand Response Based on Smart Homes. Mathematical Problems in Engineering, 2015, 2015, 1-8.   | 1.1 | 8         |
| 57 | A DC Motor Position Control System in a 3D Real-Time Virtual Laboratory Environment Based on NCSLab 3D. International Journal of Online and Biomedical Engineering, 2015, 11, 49.                | 1.4 | 10        |
| 58 | Containment control for multi-agent systems via impulsive algorithms without velocity measurements. IET Control Theory and Applications, 2014, 8, 2033-2044.                                     | 2.1 | 25        |
| 59 | Modelling and Practical Implementation of 2-Coil Wireless Power Transfer Systems. Journal of Electrical and Computer Engineering, 2014, 2014, 1-8.   | 0.9 | 20        |
| 60 | Web-Based 3-D Control Laboratory for Remote Real-Time Experimentation. IEEE Transactions on Industrial Electronics, 2013, 60, 4673-4682.   | 7.9 | 60        |
| 61 | Application of CAN message timing analysis to system-level fault diagnostics and networked control in vehicles. , 2011, , .  |     | 0         |
| 62 | NCSLab: A Web-Based Global-Scale Control Laboratory With Rich Interactive Features. IEEE Transactions on Industrial Electronics, 2010, 57, 3253-3265.  | 7.9 | 69        |
| 63 | Design and Implementation of Web-Based Control Laboratory for Test Rigs in Geographically Diverse Locations. IEEE Transactions on Industrial Electronics, 2008, 55, 2343-2354.                   | 7.9 | 43        |
| 64 | Design and implementation of a mobile terminal cloud supervisory control platform for networked control systems. Transactions of the Institute of Measurement and Control, 0, , 014233122110492. | 1.7 | 3         |
| 65 | Web-based digital twin online laboratories: Methodologies and implementation. Digital Twin, 0, 2, 3.   | 0.0 | 3         |