# Yan-Wu Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 132 papers | 4,313 citations | 109264 35 h-index | 118793 62 g-index |
| 132 all docs | 132 docs citations | 132 times ranked | 2842 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Synchronization of Complex Dynamical Networks With Time-Varying Delays Via Impulsive Distributed Control. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 2182-2195. | 3.5 | 383 |
| 2 | Output formation-containment of interacted heterogeneous linear systems by distributed hybrid active control. Automatica, 2018, 93, 26-32. | 3.0 | 178 |
| 3 | Distributed Control of Nonlinear Multiagent Systems With Unknown and Nonidentical Control Directions via Event-Triggered Communication. IEEE Transactions on Cybernetics, 2020, 50, 1820-1832. | 6.2 | 175 |
| 4 | Finite-Time Consensus for Leader-Following Second-Order Multi-Agent Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 2646-2654. | 3.5 | 173 |
| 5 | Peer-to-Peer Energy Sharing Among Smart Energy Buildings by Distributed Transaction. IEEE Transactions on Smart Grid, 2019, 10, 6491-6501. | 6.2 | 165 |
| 6 | Synchronization of complex dynamical networks under recoverable attacks. Automatica, 2010, 46, 197-203. | 3.0 | 131 |
| 7 | Output formation-containment of coupled heterogeneous linear systems under intermittent communication. Journal of the Franklin Institute, 2017, 354, 392-414. | 1.9 | 124 |
| 8 | Optimal Persistent Monitoring Using Second-Order Agents With Physical Constraints. IEEE Transactions on Automatic Control, 2019, 64, 3239-3252. | 3.6 | 112 |
| 9 | Impulsive Multisynchronization of Coupled Multistable Neural Networks With Time-Varying Delay. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1560-1571. | 7.2 | 111 |
| 10 | A New and Fair Peer-to-Peer Energy Sharing Framework for Energy Buildings. IEEE Transactions on Smart Grid, 2020, 11, 3817-3826. | 6.2 | 106 |
| 11 | Global Synchronization of Complex Dynamical Networks Through Digital Communication With Limited Data Rate. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2487-2499. | 7.2 | 99 |
| 12 | Robust Stabilization of Complex Switched Networks With Parametric Uncertainties and Delays Via Impulsive Control. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 2100-2108. | 3.5 | 88 |
| 13 | A Two-Stage Robust Energy Sharing Management for Prosumer Microgrid. IEEE Transactions on Industrial Informatics, 2019, 15, 2741-2752. | 7.2 | 80 |
| 14 | Resilient Control and Analysis for DC Microgrid System Under DoS and Impulsive FDI Attacks. IEEE Transactions on Smart Grid, 2021, 12, 3742-3754. | 6.2 | 76 |
| 15 | Exponential synchronization of complex dynamical networks with markovian jump parameters and stochastic delays and its application to multi-agent systems. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 1175-1192. | 1.7 | 72 |
| 16 | Exponential stability of impulsive positive systems with mixed timeâ€varying delays. IET Control Theory and Applications, 2014, 8, 1537-1542. | 1.2 | 67 |
| 17 | Impulsive control for synchronization of a class of continuous systems. Chaos, 2004, 14, 199-203. | 1.0 | 64 |
| 18 | Time-varying formation tracking of multiple manipulators via distributed finite-time control. Neurocomputing, 2016, 202, 20-26. | 3.5 | 64 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Distributed real-time demand response for energy management scheduling in smart grid. International Journal of Electrical Power and Energy Systems, 2018, 99, 233-245. | 3.3 | 64 |
| 20 | Distributed Hybrid Secondary Control for a DC Microgrid via Discrete-Time Interaction. IEEE Transactions on Energy Conversion, 2018, 33, 1865-1875. | 3.7 | 64 |
| 21 | Robust synchronization of impulsively-coupled complex switched networks with parametric uncertainties and time-varying delays. Nonlinear Analysis: Real World Applications, 2010, 11, 3008-3020. | 0.9 | 60 |
| 22 | An Efficient Peer-to-Peer Energy-Sharing Framework for Numerous Community Prosumers. IEEE Transactions on Industrial Informatics, 2020, 16, 7402-7412. | 7.2 | 60 |
| 23 | Distributed hierarchical control design of coupled heterogeneous linear systems under switching networks. International Journal of Robust and Nonlinear Control, 2017, 27, 1242-1259. | 2.1 | 52 |
| 24 | Community Energy Cooperation With the Presence of Cheating Behaviors. IEEE Transactions on Smart Grid, 2021, 12, 561-573. | 6.2 | 52 |
| 25 | Distributed Supervisory Secondary Control for a DC Microgrid. IEEE Transactions on Energy Conversion, 2020, 35, 1736-1746. | 3.7 | 51 |
| 26 | Synchronization of Continuous Dynamical Networks With Discrete-Time Communications. IEEE Transactions on Neural Networks, 2011, 22, 1979-1986. | 4.8 | 50 |
| 27 | Discrete-Communication-Based Bipartite Tracking of Networked Robotic Systems via Hierarchical Hybrid Control. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 1402-1412. | 3.5 | 49 |
| 28 | Prosumer Community: A Risk Aversion Energy Sharing Model. IEEE Transactions on Sustainable Energy, 2020, 11, 828-838. | 5.9 | 47 |
| 29 | Distributed gameâ€based pricing strategy for energy sharing in microgrid with PV prosumers. IET Renewable Power Generation, 2018, 12, 380-388. | 1.7 | 45 |
| 30 | Global synchronization of complex dynamical networks with network failures. International Journal of Robust and Nonlinear Control, 2010, 20, 1667-1677. | 2.1 | 44 |
| 31 | Distributed optimization problem for second-order multi-agent systems with event-triggered and time-triggered communication. Journal of the Franklin Institute, 2019, 356, 10196-10215. | 1.9 | 41 |
| 32 | Stability analysis of switched positive linear systems with stable and unstable subsystems. International Journal of Systems Science, 2014, 45, 2458-2465. | 3.7 | 40 |
| 33 | Multi-energy management with hierarchical distributed multi-scale strategy for pelagic islanded microgrid clusters. Energy, 2019, 185, 910-921. | 4.5 | 40 |
| 34 | Consensus in secondâ€order multiâ€agent systems via impulsive control using positionâ€only information with heterogeneous delays. IET Control Theory and Applications, 2015, 9, 336-345. | 1.2 | 39 |
| 35 | Economic Storage Sharing Framework: Asymmetric Bargaining-Based Energy Cooperation. IEEE Transactions on Industrial Informatics, 2021, 17, 7489-7500. | 7.2 | 38 |
| 36 | Adaptive control and synchronization for chaotic systems with parametric uncertainties. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2409-2414. | 0.9 | 37 |

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|---|---|---|---|
| 37 | Mean square average-consensus for multi-agent systems with measurement noise and time delay. International Journal of Systems Science, 2013, 44, 995-1005. | 3.7 | 36 |
| 38 | Output Multiformation Tracking of Networked Heterogeneous Robotic Systems via Finite-Time Hierarchical Control. IEEE Transactions on Cybernetics, 2021, 51, 2893-2904. | 6.2 | 35 |
| 39 | On finite-time stability and stabilization of positive systems with impulses. Nonlinear Analysis: Hybrid Systems, 2019, 31, 275-291. | 2.1 | 34 |
| 40 | Adaptive control and synchronization for a class of nonlinear chaotic systems using partial system states. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 351, 79-84. | 0.9 | 33 |
| 41 | Robust consensus of fractional-order multi-agent systems with input saturation and external disturbances. Neurocomputing, 2018, 303, 11-19. | 3.5 | 33 |
| 42 | Exponential stability of singularly perturbed switched systems with all modes being unstable. Automatica, 2020, 113, 108800. | 3.0 | 33 |
| 43 | Cluster synchronization of coupled delayed competitive neural networks with two time scales. Nonlinear Dynamics, 2017, 90, 2767-2782. | 2.7 | 30 |
| 44 | Formation-containment control of multiple underactuated surface vessels with sampling communication via hierarchical sliding mode approach. ISA Transactions, 2022, 124, 458-467. | 3.1 | 30 |
| 45 | A Distributed Iterative Learning Framework for DC Microgrids: Current Sharing and Voltage Regulation. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 119-129. | 3.4 | 30 |
| 46 | Formation tracking of the second-order multi-agent systems using position-only information via impulsive control with input delays. Applied Mathematics and Computation, 2014, 246, 572-585. | 1.4 | 29 |
| 47 | Stability Analysis of Impulsive Positive Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5987-5991. | 0.4 | 29 |
| 48 | Distributed optimization problem for double-integrator systems with the presence of the exogenous disturbance. Neurocomputing, 2018, 272, 386-395. | 3.5 | 28 |
| 49 | Dynamic consensus of nonlinear time-delay multi-agent systems with input saturation: an impulsive control algorithm. Nonlinear Dynamics, 2019, 97, 1699-1710. | 2.7 | 28 |
| 50 | Stabilization of Positive Systems With Time Delay via the Takagiâ€“Sugeno Fuzzy Impulsive Control. IEEE Transactions on Cybernetics, 2022, 52, 4275-4285. | 6.2 | 28 |
| 51 | Distributed auction optimization algorithm for the nonconvex economic dispatch problem based on the gossip communication mechanism. International Journal of Electrical Power and Energy Systems, 2018, 95, 417-426. | 3.3 | 27 |
| 52 | Distributed Fixed-Time Secondary Control for DC Microgrid Via Dynamic Average Consensus. IEEE Transactions on Sustainable Energy, 2021, 12, 2008-2018. | 5.9 | 27 |
| 53 | Adaptive proxy-based sliding mode control for a class of second-order nonlinear systems and its application to pneumatic muscle actuators. ISA Transactions, 2022, 124, 395-402. | 3.1 | 26 |
| 54 | Predefined-time optimization for distributed resource allocation. Journal of the Franklin Institute, 2020, 357, 11323-11348. | 1.9 | 25 |

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|---|---|---|---|
| 55 | Multistability of discrete-time delayed Cohenâ€“Grossberg neural networks with second-order synaptic connectivity. Neurocomputing, 2015, 164, 252-261. | 3.5 | 24 |
| 56 | Impulsive positive observers and dynamic output feedback stabilization of positive linear continuous systems. International Journal of Robust and Nonlinear Control, 2017, 27, 2275-2291. | 2.1 | 24 |
| 57 | Lag-Bipartite Formation Tracking of Networked Robotic Systems Over Directed Matrix-Weighted Signed Graphs. IEEE Transactions on Cybernetics, 2022, 52, 6759-6770. | 6.2 | 23 |
| 58 | Fixed-Time Synchronization of Competitive Neural Networks With Multiple Time Scales. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4133-4138. | 7.2 | 23 |
| 59 | Robust synchronization of complex switched networks with parametric uncertainties and two types of delays. International Journal of Robust and Nonlinear Control, 2013, 23, 190-207. | 2.1 | 21 |
| 60 | A Decentralized Periodic Energy Trading Framework for Pelagic Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2020, 67, 7595-7605. | 5.2 | 21 |
| 61 | Event-Triggered Adaptive Output Regulation for a Class of Nonlinear Systems With Unknown Control Direction. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3181-3188. | 5.9 | 20 |
| 62 | Distributed leaderless impulsive consensus of non-linear multi-agent systems with input saturation. Nonlinear Analysis: Hybrid Systems, 2020, 36, 100855. | 2.1 | 20 |
| 63 | Consensus in Markovian jump secondâ€order multiâ€agent systems with random communication delay. IET Control Theory and Applications, 2014, 8, 1666-1675. | 1.2 | 19 |
| 64 | 3D Grid Multi-Wing Chaotic Attractors. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850045. | 0.7 | 17 |
| 65 | Distributed optimisation of secondâ€order multiâ€agent systems by control algorithm using positionâ€only interaction with timeâ€varying delay. IET Control Theory and Applications, 2017, 11, 2549-2558. | 1.2 | 16 |
| 66 | Dissipativity of Singularly Perturbed Lurâ€™e Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1532-1536. | 2.2 | 16 |
| 67 | Exponential stability of switched positive systems with all modes being unstable. International Journal of Robust and Nonlinear Control, 2020, 30, 4600-4610. | 2.1 | 16 |
| 68 | Robust reliable guaranteed cost control of positive interval systems with multiple time delays and actuator failure. International Journal of Systems Science, 2016, 47, 946-955. | 3.7 | 15 |
| 69 | Modulus consensus in a network of singularly perturbed systems with collaborative and antagonistic interactions. International Journal of Control, 2017, 90, 2667-2676. | 1.2 | 15 |
| 70 | Predefined-Time Secondary Control for DC Microgrid. IEEE Transactions on Industrial Electronics, 2022, 69, 13504-13513. | 5.2 | 15 |
| 71 | Synchronisation of complex dynamical networks with additive stochastic time-varying delays. International Journal of Systems Science, 2016, 47, 1221-1229. | 3.7 | 14 |
| 72 | Consensus of Upper-Triangular Multiagent Systems With Sampled and Delayed Measurements via Output Feedback. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 600-608. | 5.9 | 14 |

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|---|---|---|---|
| 73 | Set-Membership filtering with incomplete observations. Information Sciences, 2020, 517, 37-51. | 4.0 | 14 |
| 74 | Exponential stability of switched positive systems with unstable modes and distributed delays. Journal of the Franklin Institute, 2022, 359, 66-83. | 1.9 | 14 |
| 75 | Reaching cluster consensus in multi-agent systems. , 2011, , . | | 13 |
| 76 | Adaptive pinning control for the projective synchronization of drive-response dynamical networks. Applied Mathematics and Computation, 2012, 219, 2780-2788. | 1.4 | 13 |
| 77 | Asynchronous impulsive control for consensus of second-order multi-agent networks. Communications in Nonlinear Science and Numerical Simulation, 2019, 79, 104892. | 1.7 | 13 |
| 78 | Multitarget Tracking for Multiple Lagrangian Plants With Input-to-Output Redundancy and Sampled-Data Interactions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5611-5622. | 5.9 | 13 |
| 79 | Controllability of impulsive singularly perturbed systems and its application to a class of multiplex networks. Nonlinear Analysis: Hybrid Systems, 2019, 31, 123-134. | 2.1 | 12 |
| 80 | A New Cooperation Framework With a Fair Clearing Scheme for Energy Storage Sharing. IEEE Transactions on Industrial Informatics, 2022, 18, 5893-5904. | 7.2 | 11 |
| 81 | Coordination of networked delayed singularly perturbed systems with antagonistic interactions and switching topologies. Nonlinear Dynamics, 2017, 89, 741-754. | 2.7 | 10 |
| 82 | Stability and synchronization of directed complex dynamical networks with random packet loss: the continuousâ€time case and the discreteâ€time case. International Journal of Circuit Theory and Applications, 2013, 41, 1272-1289. | 1.3 | 9 |
| 83 | Collision-Free Trajectory Design for 2-D Persistent Monitoring Using Second-Order Agents. IEEE Transactions on Control of Network Systems, 2020, 7, 545-557. | 2.4 | 9 |
| 84 | Secure stabilization of singularly perturbed switched systems under deception attacks. Nonlinear Dynamics, 2022, 108, 683-695. | 2.7 | 9 |
| 85 | Synchronization of complex switched networks with two types of delays. Neurocomputing, 2011, 74, 3151-3157. | 3.5 | 8 |
| 86 | Adaptive fuzzy faultâ€tolerant control for a class of unknown nonâ€linear dynamical systems. IET Control Theory and Applications, 2016, 10, 2357-2369. | 1.2 | 8 |
| 87 | Positive observer design for linear impulsive positive systems with interval uncertainties and time delay. International Journal of Control, Automation and Systems, 2017, 15, 1032-1039. | 1.6 | 8 |
| 88 | Adaptive consensus of two-time-scale multi-agent systems. International Journal of Control, 2021, 94, 943-951. | 1.2 | 8 |
| 89 | Distributed Resource Allocation via Accelerated Saddle Point Dynamics. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1588-1599. | 8.5 | 8 |
| 90 | Adaptive synchronization of GLHS with unknown parameters. International Journal of Circuit Theory and Applications, 2009, 37, 920-927. | 1.3 | 7 |

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|---|---|---|---|
| 91 | Distributed optimisation problem with communication delay and external disturbance. International Journal of Systems Science, 2017, 48, 3530-3541. | 3.7 | 7 |
| 92 | Non-zero sum differential graphical game: cluster synchronisation for multi-agents with partially unknown dynamics. International Journal of Control, 2019, 92, 2408-2419. | 1.2 | 7 |
| 93 | Guaranteed Cost for an Event-Triggered Consensus Strategy for Interconnected Two Time-Scales Systems With Structured Uncertainty. IEEE Transactions on Cybernetics, 2022, 52, 4370-4380. | 6.2 | 7 |
| 94 | Delay independent synchronization of complex network via hybrid control. , 2008, , . | | 6 |
| 95 | Hybrid Consensus-based Algorithm for Distributed Economic Dispatch Problem * *This work is supported by the National Natural Science Foundation of China under Grants 61374171, 61572210, 51537003 and 61673178, the Fundamental Research Funds for the Central Universities (2015TS030).. IFAC-PapersOnLine, 2017, 50, 177-182. | 0.5 | 6 |
| 96 | L1-gain analysis and control of impulsive positive systems with interval uncertainty and time delay. Journal of the Franklin Institute, 2019, 356, 9180-9205. | 1.9 | 6 |
| 97 | Residential virtual power plant with photovoltaic output forecasting and demand response. Asian Journal of Control, 2019, 21, 1906-1917. | 1.9 | 6 |
| 98 | A survey on pinning control of complex dynamical networks. , 2008, , . | | 5 |
| 99 | Prescribed Performance-Based Secondary Control for DC Microgrid. IEEE Transactions on Energy Conversion, 2022, 37, 2610-2619. | 3.7 | 5 |
| 100 | Optimal control approach to persistent monitoring problem based on monitoring index. IET Control Theory and Applications, 2018, 12, 1628-1634. | 1.2 | 4 |
| 101 | Distributed control of heterogeneous multi-agent systems with unknown control directions via event/self-triggered communication. Journal of the Franklin Institute, 2020, 357, 12163-12179. | 1.9 | 4 |
| 102 | Faultâ€tolerant control of singularly perturbed systems with actuator faults and disturbances. International Journal of Robust and Nonlinear Control, 2020, 30, 4550-4564. | 2.1 | 4 |
| 103 | Global Optimization: A Distributed Compensation Algorithm and its Convergence Analysis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2355-2369. | 5.9 | 4 |
| 104 | Exponential stability of singularly perturbed systems with mixed impulses. Nonlinear Analysis: Hybrid Systems, 2021, 40, 101023. | 2.1 | 4 |
| 105 | Distributed Event-Triggered Synchronization of Interconnected Linear Two-Time-Scale Systems With Switching Topology. IEEE Transactions on Cybernetics, 2022, 52, 13714-13726. | 6.2 | 4 |
| 106 | Concentrated differentially private average consensus algorithm for a discrete-time network with heterogeneous dynamics. Journal of the Franklin Institute, 2022, 359, 1655-1676. | 1.9 | 4 |
| 107 | Reduced-order adaptive control design for the stabilization and synchronization of a class of nonlinear chaotic systemsâ˜†. Chaos, Solitons and Fractals, 2009, 42, 1156-1162. | 2.5 | 3 |
| 108 | Distributed control of heterogeneous linear multi-agent systems by intermittent event-triggered control. , 2017, , . | | 3 |

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|---|---|---|---|
| 109 | Adaptive Synchronization of Two Different Hyperchaotic Systems with Unknown Parameters. , 2009, , . | | 3 |
| 110 | Stability and synchronization of complex dynamical networks with random packet losses. , 2010, , . | | 2 |
| 111 | Dynamic consensus of multi-agent systems under Markov packet losses with defective transition probabilities. , 2012, , . | | 2 |
| 112 | Assignment-driven multi-consensus in second-order multi-agent systems via impulsive control with heterogeneous delays. , 2016, , . | | 2 |
| 113 | Impulsive stabilization of positive systems with time-varying delays. , 2017, , . | | 2 |
| 114 | Distributed resource allocation: an indirect dual ascent method with an exponential convergence rate. Nonlinear Dynamics, 2020, 102, 1685-1699. | 2.7 | 2 |
| 115 | Stabilization of complex switched networks with two types of delays via impulsive control. , 2009, , . | | 1 |
| 116 | Reducedâ€order impulsive control for a class of nonlinear systems. International Journal of Robust and Nonlinear Control, 2010, 20, 892-898. | 2.1 | 1 |
| 117 | Robust stabilization of uncertain complex singular dynamical networks via impulsive control. , 2009, , . | | 1 |
| 118 | Robust synchronization of impulsively-coupled complex dynamical networks with parametric uncertainties and delays. , 2009, , . | | 1 |
| 119 | Average consensus of multi-agent systems under logarithm quantized communications. , 2012, , . | | 1 |
| 120 | Bipartite consensus for multiple two-time scales agents over the signed digraph. , 2016, , . | | 1 |
| 121 | Optimal Power Sharing Control for DC Microgrids via Adaptive Dynamic Programming. , 2018, , . | | 1 |
| 122 | Bi-level Based Multiple Energy Sharing Management of Apartment Renewable Resources. , 2019, , . | | 1 |
| 123 | Collision-free and crossing-free trajectory design for second-order agents persistent monitoring. Journal of the Franklin Institute, 2020, 357, 8726-8743. | 1.9 | 1 |
| 124 | Delay-dependent stability of discrete-time complex networks with mode-dependent uncertain parameters and time delays. , 2009, , . | | 0 |
| 125 | Synchronization of complex dynamical networks via distributed impulsive control. , 2009, , . | | 0 |
| 126 | Adaptive synchronization of complex dynamical networks with two types of time-varying delays. , 2010, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Adaptive-impulsive synchronization of complex dynamical networks with delays. , 2010, , . | | 0 |
| 128 | Generating high-dimensional grid multi-scroll attractors via feedback controller and switching function. , 2015, , . | | 0 |
| 129 | Stability and <tex>$L_{1}$</tex>-gain analysis of impulsive positive systems via discretized copositive Lyapunov function method. , 2018, , . | | 0 |
| 130 | Distributed Optimization with Multiple Linear Equality Constraints and Convex Inequality Constraints. , 2019, , . | | 0 |
| 131 | A Data-Driven MPC-Based Energy Optimization and Management Framework of an Energy Building. , 2021, , . | | 0 |
| 132 | Human-in-the-Loop Teleoperation of NRS with Event-based Local Communication in A Fully-Distributed Manner. , 2021, , . | | 0 |