Hui Li 李輝 Postdoctoral Scholar E-mail : huili@um.edu.mo

Education

PhD of Electrical Engineering
Chongqing University, Chongqing

2019.09 - 2022.06

Publications

- H. Li, et al, "Negative-Emission Distributionally Robust Optimal Energy Scheduling for Off-grid Integrated Electricity-Heat Microgrid," IEEE Transactions on Sustainable Energy, 2023, early access.
- H. Li, Z. Ren, A. Trivedi, D. Srinivasan, P. Liu, "Optimal Sizing of Dual-Zero Microgrid on an Island Towards Net-Zero Carbon Emission," IEEE Transactions on Smart Grid, 2023, early access.
- H. Li, Z. Ren, A. Trivedi, P. P. Verma, D. Srinivasan, W. Li, "A Noncooperative Game-Based Approach for Microgrid Planning Considering Existing Interconnected and Clustered Microgrids on an Island," IEEE Transactions on Sustainable Energy, vol. 13, no.4, pp. 2064-2078, Oct. 2022.
- H. Li, Z. Ren, Y. Xu, W. Li, B Hu, "A Multi-data Driven Hybrid Learning Method for Weekly Photovoltaic Power Scenario Forecast," IEEE Transactions on Sustainable Energy, vol. 13, no. 1, pp. 91-100, Jan. 2022.
- H. Li, Z. Ren, "A Tidal Resource Evaluation-Based Method for Tidal Current Generation Farm Allocation Considering the Directionality of Tidal Currents," IEEE Transactions on Sustainable Energy, vol. 11, no. 4, pp. 2631-2640, Oct. 2020.
- H. Li, Z. Ren, M. Fan, W. Li, Y. Xu, Y. Jiang, W. Xia, "A Review of Scenario Analysis Methods in Planning and Operation of Modern Power Systems: Methodologies,

Applications and Challenges," Electric Power Systems Research, vol. 205, pp. 107722, Apr. 2022.

Research Interests

- Planning and operation of low-carbon energy systems
- Applications of deep learning in power systems

Projects

- Technology and Application of Wind Power/ Photovoltaic Power Prediction for Promoting Renewable Energy Consumption (National Key R&D Program of China)
- Research on the Integrated Probabilistic Planning Method of TCTG and Electrical Collector System (National Natural Science Fund)

Selected Awards & Honors

- Excellent Graduate. Awarded by Chongqing Municipal Government in 2022
- Outstanding Reviewer of IEEE Transactions on Sustainable Energy in 2021
- Best Paper Award of CIYCEE conference in 2021

Academic Services

- Guest Editor of Applied Energy and China Electric Power.
- Peer reviewer of eight high-reputed journals including IEEE Transactions on Power systems, IEEE Transactions on Sustainable Energy, IEEE PES Engineering Letter, IET Renewable Power Generation, etc.
- Technical Committee member of IEEE SSCI 2022 and CFEEE 2022
- Session Chair of IEEE I&CPS 2023 and IEEE iSPEC 2023.