

# Yuxiong Huang

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## EDUCATION

2017–        PhD in Electrical Engineering, Xi'an Jiaotong University, China

2013–2017   BSc in Electrical Engineering, Xi'an Jiaotong University, China

## RESEARCH AREA

Three key words can be used to depict my research interests: reliability/resilience evaluation, integrated energy systems, and machine learning applications. At present, I am trying to use machine learning techniques (especially deep learning and reinforcement learning) to improve the efficiency and feasibility of reliability/resilience evaluation in complicated systems.

## PUBLICATIONS

Notably, I only list the papers I wrote personally, and Gengfeng Li is my supervisor.

### PEER-REVIEWED

- 2020        Li G, **Huang Y**, Bie Z, Ding T. Machine-learning-based reliability evaluation framework for power distribution networks. *IET Generation, Transmission & Distribution*. doi:[10.1049/iet-gtd.2019.1520](https://doi.org/10.1049/iet-gtd.2019.1520).
- 2019        Li G, **Huang Y**, Bie Z, AN J, Sun S, Qiu Q, Gao X, Peng Y, Lei Y. Review and prospect of operational reliability evaluation of integrated energy system *Electric Power Automation Equipment*. doi:[10.16081/j.epae.201908040](https://doi.org/10.16081/j.epae.201908040).
- 2018        Li G, **Huang Y**, Bie Z. Reliability evaluation of smart distribution systems considering load rebound characteristics. *IEEE Transactions on Sustainable Energy*. doi:[10.1109/TSTE.2018.2810220](https://doi.org/10.1109/TSTE.2018.2810220).
- 2017        **Huang Y**, Li G, Bie Z, Kou Y, Jiang J. Reliability evaluation of distributed integrated energy systems. *Smart Power*. doi:[10.3969/j.issn.1673-7598.2017.07.008](https://doi.org/10.3969/j.issn.1673-7598.2017.07.008).

### PEER-REVIEWED CONFERENCE PROCEEDINGS

- 2018        **Huang Y**, Li G, Bie Z, Jiang J. Interaction strategy of user side storage devices for the day-ahead dispatch of distributed integrated energy systems. *2018 China International Conference on Electricity Distribution (CICED)*. doi:[10.1109/CICED.2018.8592364](https://doi.org/10.1109/CICED.2018.8592364)

- 2017      **Huang Y**, Li G. Reliability evaluation of distributed integrated energy systems via Markov chain Monte Carlo. *2017 IEEE Conference on Energy Internet and Energy System Integration (EI2)*. doi:[10.1109/EI2.2017.8245412](https://doi.org/10.1109/EI2.2017.8245412).

## AWARDS & HONOURS

- 2018      National Scholarship for Postgraduate students. Award ID: 2018.14283. Amount: 20,000 CNY.
- 2018      National Second Prize of "HUAWEI Cup" The 15th China Post-Graduate Mathematical Contest in Modelling. Award ID: B2018200628.
- 2016      UHV (Ultra High Voltage) Scholarship. Amount: 10,000 CNY.
- 2016      National Second Prize of The 9th National University Student Social Practice and Science Contest on Energy Saving & Emission Reduction. Award ID: 2016A-B-019.

## PROJECTS

Notably, I participate in the following projects as a PhD student, not the project leader.

- 2020–      Researches on model-data hybrid driven operational reliability evaluation of integrated energy systems. National Natural Science Foundation of China (Grant No. 51977168). 01/2020.01-12/2023.
- 2017–2019      Researches on the model and algorithm of reliability evaluation for integrated energy system. National Natural Science Foundation of China (Grant No.51607136). 01/2017-12/2019.
- 2016–2020      Basic theory for the planning, operation and markets of Energy Internet. National Key Research and Development Program of China (Grant No. 2016YFB0901900). 06/2016-06/2020.

## TECHNICAL SKILLS

- Languages      Chinese, English (preparing for the TOEFL test)
- Programming      Python, C/C++, Matlab, LaTeX
- Tools              TensorFlow, PyTorch, CVX, Gorubi, OpenDSS