

HONGRONG YANG

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EDUCATION

Tsinghua University

Master of Electrical Engineering (GPA: 3.76 / 4.0)

Sep. 2021 – Present

Adovisor: Prof. Yinliang Xu

Jinlin University

Bachelor in Mechanical Engineering

Sep. 2016 – June. 2020

Adovisor: Prof. Xingtian Qu & Fu Zhang

PUBLICATIONS

* indicates equal contribution

- **Hongrong Yang***, Quanyi Chen*, Yinliang Xu, Xuan Zhang, "Fast Charging Management of Lithium-ion Battery and Cooling System: A Stackelberg Game-based Soft Actor Critic- Deep Reinforcement Learning Method." *IEEE Transactions on Industrial Informatics*, under review.
- **Hongrong Yang**, Yinliang Xu, Qinglai Guo, "Pricing Strategy for Real-Time Distribution Network Congestion Management: An Adaptive Model-Based Safe Deep Reinforcement Learning Method." *IEEE Transactions on Sustainable Energy*, in revision.
- **Hongrong Yang**, Yinliang Xu, Hongbin Sun, Qinglai Guo, Qiong Liu, "Electric Vehicles Management in Distribution Network: A Data-Efficient Bi-level Deep Reinforcement Learning Method." *IEEE Transactions on Power Systems*, under review.
- Liming Zhou, Shuhui Ren, Bin Nie, **Hongrong Yang**, Peng Liu, "Magneto-electro-elastic node-based smoothed point interpolation method for micromechanical analysis of natural frequencies of nanobeams." *ACTA MECHANICA*, 2019.

PATENTS & COPYRIGHTS

- A Two-stage Deep Reinforcement Learning-Based Electric Vehicles Coordination Scheme in Distribution Networks (First inventor), Patent pending.
- An intelligent tree-type parking device (First inventor), China Patent Number 201921526525.3, Sep. 2019.
- Virtual dynamic simulation software for cam mechanism kinematics (First inventor), Registration Number 2019SR0704441, July. 2019.
- Parameter calculation software for planar four-bar mechanism (First inventor), Registration Number 2019SR0580635, June. 2019.
- Software for calculation and analysis of fatigue strength (First inventor), Registration Number 2019SR0580655, June. 2019.

HONORS AND AWARDS

- Scholarship of Academic Excellence Award of Jilin University. 2019
- Outstanding Cadre of Jilin University. 2018 & 2019
- First Prize of Contemporary Undergraduate Mathematical Contest in Modeling in Jilin Province (Group leader). 2018
- Second Prize of the National Student Mechanical Innovation Design Competition in Jilin Province (Group leader) . 2018

TEACHING EXPERIENCE

• **Teaching Assitant, Tsinghua University**

Sep. 2022 – Jan. 2023

Graduate 86000691:

Introduction to Energy Environment and Data Information

Adovisor: Prof. Xuan Zhang