HONGRONG YANG

EDUCATION

Tsinghua University   Sep. 2021 – Present
Master in Electrical Engineering (3.74 / 4.0)   *Adovisor: Prof. Yinliang Xu & Xuan Zhang*
Jilin University   Sep. 2016 – June. 2020
Bachelor in Mechanical Engineering (78.79 / 100)   *Adovisor: Prof. Xingtian Qu & Fu Zhang*

PUBLICATIONS

* indicates equal contribution

- **Hongrong Yang**, Yinliang Xu, Qinglai Guo, "Charging Stations Dynamic Pricing for Real-Time Congestion Management in Distribution Network: An Adaptive Model-Based Safe Deep Reinforcement Learning Method." *IEEE Transactions on Sustainable Energy*, IEEE early access article. [Paper]
- **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 the third review. [Paper]
- **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 Electronics*, under review. [Paper]
- Mingyang Zhang, **Hongrong Yang**, Yinliang Xu, Hongbin Sun, "Deep Reinforcement Learning for Real-time Dynamic Aggregation and Scheduling of Electric Vehicles." *IEEE Transactions on Smart Grid*, under review. [Paper]
- 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. [Paper]

PATENTS & COPYRIGHTS

- **Hongrong Yang**, Zhonghan Jiang, Chunyang Ni, "An intelligent tree-type parking device." China Patent Number 201921526525.3,Sep. 2019.[Video]
- **Hongrong Yang**,Yinliang Xu, "A Two-stage Deep Reinforcement Learning-Based Electric Vehicles Coordination Scheme in Distribution Networks." Patent pending.
- **Hongrong Yang**, Liming Zhou, Bofan Wang, "Virtual dynamic simulation software for cam mechanism kinematics." Registration Number 2019SR0704441, July. 2019.
- **Hongrong Yang**, Liming Zhou, Quankun Li, "Parameter calculation software for planar four-bar mechanism." Registration Number 2019SR0580635, June. 2019.
- **Hongrong Yang**, Liming Zhou, Jinghao Tang, "Software for calculation and analysis of fatigue strength." Registration Number 2019SR0580655, June. 2019.

HONORS AND AWARDS

- Scholarship of Academic Excellence Award of Jilin University.   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) .[Video]   2018

TEACHING EXPERIENCE

- **Teaching Assistant, Tsinghua University**   Sep. 2022 – Jan. 2023
  Graduate 86000691:
  Introduction to Energy Environment and Data Information   *Adovisor: Prof. Xuan Zhang*