English Name: Taoyi Qi Chinese Name: 漆淘懿

PhD Student

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Education

•	Bachelor of Electrical Engineering	
	Zhejiang University, China	2016.09 – 2020.06
•	Master of Electrical Engineering	
	Zhejiang University, China	2020.09 – 2023.03
•	PhD student of Electrical and Computer Engineering	
	Macau University, Macau	2023.08 – Present

Publications

- Taoyi Qi, Chengjin Ye, Yuming Zhao, Lingyang Li, Yi Ding. "Deep-Reinforcement-Learning-Based Charging Scheduling for Household Electric Vehicles in Active Distribution Network", Journal of Modern Power Systems and Clean Energy, early access.
- Taoyi Qi, Chaoming Zheng, Chengjin Ye, Peiyu He, Yi Ding, Chao Zhu, Weidong Bao, "Complementary Energy Storage Operation Strategy of Battery and Inverter Air Conditioners for Buildings with Integrated Photovoltaic System", Power System Technology, vol. 46, no. 11, pp. 4277-4255, Nov., 2022.

Taoyi Qi, Hongxun Hui, Lizhong Xu, Xiang Ma, Yi Ding. "Modelling and control of generalized demand response in micro-grids based on GridLAB-D", Distribution & Utilization, vol. 37, no. 7, pp. 3-10, Jul., 2020.

Research Interests

- Demand response
- Digital twins
- Intelligent buildings

Projects

<u> P10</u>	jects		
•	Friendly Interactive Smart Grid Between Supply-and	•	Nanjing,
	Demand-Sides		China
	Supported by Ministry of Science and Technology of China		06/2020 –
	(No. 2016YFB0901100)		06/2021
•	Research on key technologies and business models of	•	Jinhua,
	large-scale load resources participating in demand		China
	response		
	Supported by State Grid Zhejiang Electric Power Co., Ltd.		06/2020-
	(No. 5211JH1900M7)		08/2022
•	Research on demand response technology of massive	•	Hangzhou,
	residential users based on data-driven highly elastic power		China
	grid		
	Supported by State Grid Zhejiang Electric Power Co., Ltd.		04/2021-
	(No. 5211YF200055)		03/2023
•	Research and application of key technologies for	•	Shenzhen,
	interaction between urban buildings and power grids for		China
	large-scale renewable energy consumption		

	Supported by key science and technology project of China		08/2021-
	Southern Power Grid Corporation (No. 090000k52210134)		Present
•	Research on key technologies of virtual energy storage	•	Jiaxing,
	control in distribution network for power systems		China
	Supported by State Grid Zhejiang Electric Power Co., Ltd.		10/2021-
	(No. 5211JX190065)		08/2023
•	Research on key technologies and business models of	•	Hangzhou,
	demand-side resource cluster response in the ubiquitous		China
	power Internet of Things environment		
	Supported by State Grid Zhejiang Electric Power Co., Ltd.		07/2021-
	(No. 5211JY19000V)		08/2022
•	Human-machine augmented large-scale multi-agent	•	Xi' an,
	quantitative evaluation and autonomous evolution		China
	technology		
	Supported by National Key R&D Program of China		06/2021-
	(No.2021ZD0112700)		08/2023

Selected Awards & Honors

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Academic Services

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