



Li Yilong Smart Microgrid

Driven by the global energy transition and dual-carbon goals, the smart microgrid, as a combination of distributed energy, energy storage technology and intelligent control, plays an important role in ...

My research interests span networked and wireless systems, efficient on-device inference for large language models (LLMs), and mobile & wearable devices. With extensive experience in hardware ...

To reduce this research gap, this paper develops a new multi-layer failure and multi-dimension resilience methodology in the energy Internet of Things (IoT).

Proceedings of the 31st Annual International Conference on Mobile Computing ...

Yilong Li PhD, Stanford University Verified email at cs.stanford operating systems distributed systems datacenter computing networking

The increasing demand for resilient and sustainable energy solutions has led to the advancement of microgrids, inte-grating batteries and renewables as distribu

This review critically examines the integration of Artificial Intelligence (AI) and Deep Reinforcement Learning (DRL) into smart microgrid platforms, focusing on their role in optimizing ...

A multi-layer performance model for smart microgrids was constructed. The model driven by operation missions reveals the multi-layer performance characteristics of smart microgrids through ...

QiLoc is a simple yet effective way to accurately locate and identify occupants of Qi-compatible devices inside buildings. The system is composed of QiLoc Stations and a QiLoc Server. A QiLoc...

The goal is to optimize multi-objective scheduling for a microgrid with wind turbines, micro-turbines, fuel cells, solar photovoltaic systems, and batteries to balance power and store excess...



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Web: <https://kopbeenskloof.co.za>

