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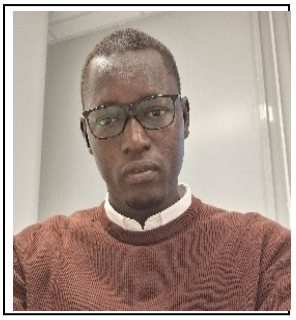

Postdoctoral researcher, Dr. El Hadji Mbaye NDIAYE
Universite Gustave Eiffel, Lyon - France

Paper ID : 94 & 382

Paper Title :

382: Intelligent and Optimized Management of a PV-Battery-Hydrogen Hybrid System for Constant Grid Injection

94: Battery model parameters anomaly corrections with machine learning methods

Bio :

Dr. El Hadji Mbaye NDIAYE is a Postdoctoral Researcher at the LICIT-Eco7 Laboratory at **Université Gustave Eiffel**, France, where he focuses on Artificial Intelligence tools for battery aging modeling and optimization of PV-battery hybrid systems.

His doctoral research was completed at Université Alioune Diop de Bambey, Senegal, where he received his **PhD in Physics (Renewable Energy and Electrical Systems Control)** in 2022 and his Master in Physics (Renewable Energy) in 2018.

His primary research interests include **renewable energy systems**, **artificial intelligence**, and **battery aging characterization**. He has expertise in adaptive control, predictive algorithms, and hybrid neuro-fuzzy methods to optimize photovoltaic (PV) and energy storage systems. He is also an experienced lecturer in automatic control, electronics, optimization, energy storage, and AI programming (Python & Matlab) at multiple Senegalese universities since 2020. He has contributed to publications, including a Chapter in an Elsevier Book on Power Electronics for Renewable Energy (2023).