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Paper Title : Development and Experimental Validation of an Indoor Photovoltaic Characterization Platform Using Liquid Infrared Filtering and Electro-Thermal Control

Biography

Amirouche DEBICHE is a PhD student and Renewable Energy Researcher at the University of Mohamed El Bachir El Ibrahimi, Bordj Bou Arreridj, Algeria.

His doctoral research focuses on the **implementation and experimental validation of advanced Maximum Power Point Tracking (MPPT) algorithms for hybrid photovoltaic/thermoelectric generator (PV/TEG) systems**. His research aims to optimize energy extraction from hybrid renewable energy systems under varying environmental conditions through the development, hardware implementation, and experimental validation of advanced MPPT algorithms.

His research interests include **photovoltaic and thermoelectric energy conversion, hybrid renewable energy systems, MPPT techniques, power electronics, and experimental characterization of renewable energy systems**.

He has also been involved in teaching activities in electrical engineering.