

# ICRERA 2025

## 14th INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY RESEARCH AND APPLICATIONS

### **Dr. Guillaume HABAULT**

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**Paper ID** : 202

**Paper Title** : Enhancing Photovoltaic Generation Forecasting with Diffusion-Based Profile Generation

### **Bio :**

Currently based in Tokyo, Japan, Dr. Guillaume Habault is a Research Scientist at KDDI Research. His doctoral work explored advanced topics in telecommunications and smart systems, laying the foundation for his current research at the intersection of Internet of Things (IoT), time series forecasting, and artificial intelligence (AI).

His research focuses on applying these technologies to domains such as smart grids and energy management, where he contributes to academic publications and collaborative projects aimed at optimizing resource utilization and improving system efficiency through data-driven approaches.

Dr. Habault's ongoing goal is to develop innovative, sustainable, and intelligent systems, bridging the gap between cutting-edge research and real-world implementation to support a more efficient and connected society.