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GRU2025

28/06/2023 / Unit Komunikasi Penyelidikan & Visibiliti, PTNCPi



Congratulations

The recipients of
PETRONAS Research Grant

Project entitled
AI-based Predictive and Prescriptive Maintenance for Large-Scale Solar Photovoltaic Plants through String Fault Detection and Severity Classification

Amount received : **RM 449,959.40**

Members:

Assoc. Prof. Ir Dr Nofri Yenita Dahlan
(Solar Research Institute (SRI)/School of Electrical Engineering) (Project Leader)

Mrs. Norhasnelly Anuar
(Mathematical Sciences Studies, College of Computing, Informatics and Media,
UiTM Cawangan Negeri Sembilan Kampus Seremban)

Ts. Dr Zuhailia Mat Yasin
(Solar Research Institute (SRI)/School of Electrical Engineering)

Ts. Mohd Fuad Abdul Latip
(School of Electrical Engineering)

Ts. Dr Mohamad Zhafran Hussin
(Solar Research Institute (SRI)/School of Electrical Engineering,
UiTM Cawangan Johor Kampus Pasir Gudang)

from
Office of Deputy Vice-Chancellor (Research & Innovation)

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UiTM researchers have secured a prestigious PETRONAS Research Grant, worth RM 449,959.40, for their groundbreaking project led by Assoc. Prof. Ir Dr Nofri Yenita Dahlan, Director of the Solar Research Institute (SRI). Their mission: to revolutionize maintenance practices in large-scale solar photovoltaic (PV) plants using AI-based predictive and prescriptive maintenance. By detecting and classifying string faults with advanced algorithms, they aim to optimize efficiency, minimize downtime, and maximize energy generation.

With this visionary project, UiTM researchers aim to identify and resolve potential issues in solar PV plants proactively, preventing performance impacts. By leveraging AI's power, they will redefine maintenance practices, offering unparalleled accuracy in fault detection and classification. This groundbreaking approach empowers operators to take proactive measures, unlocking the full potential of solar energy and driving us towards a greener, more sustainable future.

UiTM’s pursuit of AI-based predictive and prescriptive maintenance marks a pivotal shift in managing large-scale solar PV plants. Through their expertise and commitment to innovation, they are poised to reshape the renewable energy industry.

Congratulations to the UiTM researchers!

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