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MESSAGE FROM THE EDITOR-IN-CHIEF

Welcome to the Volume 9, Issue 1, 2026 of the International Journal of Electrical, Electronic and Energy Systems (IJEEAS). This issue presents a collection of research covering renewable energy, power system stability, artificial intelligence, smart agriculture, sustainable infrastructure, and industrial safety.

A key focus of this issue is renewable energy and power system stability. M. F. H. Mohd Azmi, A. N. Azmi, and M. Kohle examine the technical and economic performance of a localized grid-connected photovoltaic (GCPV) system at Universiti Teknikal Malaysia Melaka, showing its potential for institutional use. N. A. Akinrinade et.al. investigate a solar-generator-battery hybrid system for healthcare facilities, improving power reliability while reducing dependence on diesel generators. S. D. Lumina, M. E. S. Mnguni, and N. Tshemese-Mvandaba propose an adaptive PID-based droop control method with Battery Energy Storage Systems (BESS) to improve voltage stability and reduce PV power fluctuations. M. H. Hairi et.al. study voltage sags and harmonics during power system faults using a Dynamic Voltage Restorer (DVR), which effectively restores the load voltage. G. N. Obiora and O. P. Adetunji also review the development of Automatic Generation Control (AGC), from conventional control methods to modern approaches using Artificial Neural Networks, Fuzzy Logic, and Metaheuristic techniques.

Another important area is artificial intelligence and smart agriculture. B. Bello, J. D. Jiya, A. Tokan, and A. Mohamed review an intelligent groundnut threshing machine using machine vision, fuzzy logic, and machine learning to improve threshing performance and reduce seed damage. In a related study, B. Bello et al. apply ResNet-101 and Principal Component Analysis (PCA) to identify and classify groundnut varieties, achieving a high accuracy of 98.6%.

This issue also highlights sustainable infrastructure and industrial safety. S. Baqaruzi, P. Yunesti, M. R. Hikmatullah, A. Muhtar, and S. Kanata study public electric vehicle charging infrastructure in Indonesia and propose approaches for efficient charging station planning, including along the Trans-Java corridor. F. I. Asrin et.al. compare natural ester oil (FR3) with mineral oil for transformer insulation and report promising results in breakdown voltage performance and moisture control. Finally, P. I. Onu. Et.al. evaluate the reliability and safety performance of High Integrity Pressure Protection Systems (HIPPS) in oil and gas facilities, highlighting the importance of effective diagnostics and suitable proof-test intervals.

I would like to express my sincere appreciation to all authors for their valuable contributions and to our reviewers for their time and commitment to maintaining the quality of IJEEAS. We hope that the research presented in this issue will encourage new ideas, further discussion, and meaningful collaboration among researchers, academics, and industry practitioners.

Sincerely,

Ir. Dr. Maaspaliza Azri
Chief Editor, IJEEAS

