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MESSAGE FROM THE EDITOR-IN-CHIEF

As Chief Editor, I am pleased to present the latest issue, **Vol. 8, No. 2, October 2025**, of the **International Journal of Electrical Engineering and Applied Sciences (IJEEAS)**. Our journal remains steadfast in its commitment to serving as a premier platform for disseminating high-impact research in electrical engineering and applied sciences. Furthermore, I would like to extend my sincere gratitude to the IJEEAS technical team for their exceptional dedication and unwavering commitment to the success of this publication.

This edition features 18 research contributions that address a wide spectrum of critical topics, ranging from advancements in power systems and renewable energy to innovations in IoT and robotics technology. These works reflect current global trends in addressing challenges such as energy efficiency, sustainability, and digital transformation. Broadly, these contributions are categorized into several key domains:

Power Systems and Energy Management: Focuses on energy demand planning and load shifting strategies (Mpaka & Krishnamurthy, 2025; Nzita et al., 2025).

Power Electronics and Drives: Involves the development of multilevel inverters and DC-DC converters for electric vehicle applications (Deshi et al., 2025; Kaba et al., 2025).

IoT and Wireless Communication Technologies: Explores the use of LoRa, magnetic energy harvesting, and advanced communication protocols (Ajibowu et al., 2025; Minagawa et al., 2025).

System Security and Protection: Addresses issues in fault detection and overcurrent protection (J. M. H. Hairi et al., 2025; M. H. Hairi et al., 2025).

Renewable Energy and Autonomous Systems: Includes forecasting models for solar yields in Malacca, IoT integration for smart irrigation, and human detection systems for agricultural robots (Ahmad et al., 2025; Zaidi et al., 2025; Kazekami et al., 2025).

Furthermore, this issue highlights the development of isolated three-phase AC-AC converters with enhanced voltage gain and capacitor-less wireless power transfer systems (Hassan et al., 2025; Tsukadaira et al., 2025). Research also explores the fire resistance characteristics of transformer insulating oils and the effectiveness of data-driven fault detection, such as PCA, in reducing industrial downtime (Bahari et al., 2025; Cubacub et al., 2025; Sobran et al., 2025). These findings not only drive academic excellence but also offer practical solutions for a low-carbon energy industry (Ahmad et al., 2025; Alhaj Omar, 2025).

I would like to express my deepest gratitude to all authors for their intellectual contributions and to the reviewers for their dedication to maintaining the high standards of IJEEAS. We hope the content of this edition inspires new research ideas and fosters collaborations among our global readers.

Ir. Dr. Maaspaliza Azri
Chief Editor, IJEEAS

