

ACTA ELECTRONICA MALAYSIA (AEM)

INTRODUCTION

Acta Electronica Malaysia (AEM) is an open-access online journal that provides an academic platform for researchers and serves as an important reference for the advancement and dissemination of research in the fields of electronics and & applications. AEM supports high-level learning, teaching, and scholarly research by publishing original research articles, reviews, letters, and guest-edited thematic issues. As an open-access journal, all published content is freely available online without any restrictions or subscription fees, ensuring global accessibility to researchers and professionals. AEM covers a broad spectrum of topics with a particular emphasis on electronics and its practical applications, promoting innovation and knowledge sharing in the discipline.

AIMS & SCOPE

Acta Electronica Malaysia (AEM) is an international, peer-reviewed journal that provides a platform for the publication of high-quality research in all areas of electronics and its interdisciplinary applications. The journal welcomes original research articles, reviews, and case studies in the following areas:

- Microelectronics: Design, fabrication, and characterization of miniaturized electronic circuits and systems, including integrated circuits (ICs), MEMS, and nanodevices.
- Optoelectronics: Research on devices and systems that source, detect, and control light, including lasers, photodetectors, LEDs, and optical sensors.
- Industrial Electronics: Innovations in electronic systems used in industrial applications such as automation, instrumentation, robotics, and control systems.
- Power Electronics: Studies on the design and application of converters, inverters, power management systems, and energy-efficient electronic systems.
- Bioelectronics: Development of electronic systems for biomedical applications, including biosensors, wearable electronics, neural interfaces, and health monitoring devices.
- Microwave and Wireless Communications: Research on high-frequency systems and wireless technologies, including antennas, RF circuits, and communication protocols.
- Computer Science & Engineering: Integration of electronics with computing systems, covering hardware architecture, embedded systems, and computational algorithms.



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- Networks: Electronic systems and protocols for data communication networks, including network security, wireless sensor networks, and IoT.
- Systems & Control Engineering: Modeling, analysis, and control of dynamic systems using electronics and feedback mechanisms in automation and process control.
- Circuit and Signal Processing: Design and analysis of analog and digital circuits, signal transformation, filtering, and processing techniques.
- Semiconductor Devices: Research on semiconductor physics, materials, and device engineering, including transistors, diodes, and emerging device architectures.
- Artificial Intelligence (AI): Application of AI techniques in electronic systems, including machine learning, neural networks, and intelligent decision-making.
- Electrical and Autonomous Vehicles: Electronics for electric mobility and autonomous driving technologies, including powertrains, control systems, and vehicle-to-everything (V2X) communications.
- Quantum Electronics: Studies on quantum behavior in electronic systems, quantum computing hardware, and related nanotechnology applications.
- Flexible Electronics: Design and application of bendable, stretchable, and wearable electronic devices for next-generation electronics.
- Artificial Intelligence Circuits and Systems (AICAS): Hardware implementations and system architectures for AI applications, including neuromorphic computing and edge AI.
- Electronic Multimedia: Electronics in media processing, including audio, video, graphics, and interactive systems.
- Electronic Materials: Research on materials for electronic applications, including conductive polymers, nanomaterials, and emerging semiconductors.

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