Front Cover

e-ISSN 2088-6985
p-ISSN 2087-3379

Journal of Mechatronics, Electrical Power, and Vehicular Technology

Volume 16, Issue 1, 2025

Aim and Scope

Journal of Mechatronics, Electrical Power, and Vehicular Technology (MEV) is an internationally peer-reviewed journal aims to provide authoritative global source of scientific information for researchers and engineers in academia, research institutions, government agencies, and industries. The Journal publishes original research papers, review articles and case studies focused on:

Mechatronics: including control system, robotic, CNC Machine, sensor, signal processing, electronics, actuator, and mechanical dynamics.

Electrical Power: including power generation, transmission system, new and renewable energy, turbine and generator design and analysis, grid system, and source assessment.

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MEV is published by National Research and Innovation Agency (BRIN) - *formerly* Indonesian Institutes of Sciences (LIPI).

ISSN print: 2087-3379
ISSN electronics: 2088-6985

Electronics edition is available at: https://mev.brin.go.id

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MEV is managed to be issued twice in every year. The first issue should be in the mid of the year (July) and the second issue is at the end of the year (December).

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e-ISSN 2088-6985
p-ISSN 2087-3379

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FOREWORD FROM EDITOR-IN-CHIEF

Dear valued Readers,

It is with great enthusiasm that I present the July 2025 issue of the Journal of Mechatronics, Electrical Power, and Vehicular Technology (JMEV). This issue compiles twelve high-quality papers that reflect the journal's commitment to advancing knowledge and innovation in mechatronics, electrical power systems, and vehicular technologies—fields that continue to shape our technological future.

This edition covers a wide range of topics that are both timely and impactful. From advancements in renewable energy systems—such as solar trackers, photovoltaic optimization, and pico-hydro applications—to intelligent control and scheduling in electric mobility, these articles reflect a strong orientation toward sustainability, efficiency, and real-world applicability. Innovations in artificial intelligence and machine learning also play a prominent role, including their integration into power congestion management, control of light rail transit systems, and navigation systems for electric wheelchairs.

We are particularly encouraged by the increasing attention to localized energy solutions, as shown by research on bioethanol from sago waste for Honai burner stoves in Papua. This aligns with our vision of supporting technological solutions that are inclusive, regionally adaptable, and environmentally conscious.

Noteworthy as well is the inclusion of studies on robotics and assistive technology, such as gesture-controlled wheelchairs and SLAM-based mobile navigation, highlighting the journal's growing emphasis on human-centered and socially responsible engineering.

I extend my sincere gratitude to all contributing authors, whose dedication to rigorous and impactful research continues to elevate the quality of this journal. I also thank our reviewers and editorial board for their tireless efforts in ensuring the integrity and excellence of the publication process.

As Editor-in-Chief, I invite researchers, practitioners, and policymakers to explore the findings presented in this issue and consider them as a source of insight, collaboration, and future innovation.

Bandung, July 2025

Editor-in-Chief

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