



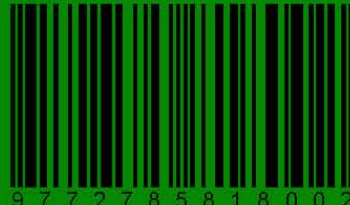
Asian Journal of

Electrical and Electronic Engineering

VOLUME 4 ISSUE 1 MARCH 2024



eISSN 2785-8189



9 7 7 2 7 8 5 8 1 8 0 0 2

<https://alambiblio.com/ojs/index.php/ajoeee>



CHIEF EDITOR

Prof. Dr. AHM Zahirul Alam, IIUM, Malaysia

EXECUTIVE EDITOR

Assoc. Prof. Dr. Muhammad Mahbubur Rashid, IIUM, Malaysia

EDITORIAL BOARD MEMBERS

Prof. Dr. Sheroz Khan
Onaizah College of Engineering and Information Technology
Saudi Arab

Prof. Dr. AHM Asadul Huq
Department of Electrical and Electronic Engineering
Dhaka University, Bangladesh

Prof. Dr. Pran Kanai Shaha
Department of Electrical and Electronic Engineering
Bangladesh University of Engineering and Technology,
Bangladesh

Assoc. Prof. Dr. SMA Motakabber
Faculty of Engineering
International Islamic University Malaysia, Malaysia

Prof. Dr. ABM Harun Ur Rashid
Department of Electrical and Electronic Engineering
Bangladesh University of Engineering and Technology,
Bangladesh

Prof. Dr. Joarder Kamruzzaman
Engineering and Information Technology
Federal University, Australia

Dr. Md Arafatur Rahman
Reader in Cyber Security
University of Wolverhampton
United Kingdom

AIMS & SCOPE OF THE ASIAN JOURNAL OF ELECTRICAL AND ELECTRONIC ENGINEERING

The **Asian Journal of Electrical and Electronic Engineering (AJoEEE)**, published biannually (March and September), is a peer-reviewed open-access journal of the **Alambiblio Press**.

The Asian Journal of Electrical and Electronic Engineering publishes original research findings as regular papers and review papers (by invitation). The Journal provides a platform for Engineers, Researchers, Academicians, and Practitioners who are highly motivated to contribute to the Electrical and Electronics Engineering disciplines. It also welcomes contributions that address the developing world's specific challenges and address science and technology issues from a multidisciplinary perspective.

REFEREES' NETWORK

All papers submitted to AJoEEE Journal will be subjected to a rigorous reviewing process through a worldwide network of specialized and competent referees. Each accepted paper should have at least two positive referees' assessments.

SUBMISSION OF A MANUSCRIPT

A manuscript should be submitted online to the Asian Journal of Electrical and Electronic Engineering (AJoEEE) website <https://alambiblio.com/ojs/index.php/ajoeee>. Further correspondence on the status of the paper could be done through the journal's website



COPYRIGHT NOTICE

Consent to publish: The Author(s) agree to publish their articles with AlamBiblio Press.

Declaration: The Author(s) declare that the article has not been published before in any form. It is not concurrently submitted to another publication and does not infringe on anyone's copyright. The author (s) holds the AlamBiblio Press and Editors of the Journal harmless against all copyright claims.

Transfer of copyright: The Author(s) hereby agree to transfer the article's copyright to **AlamBiblio Press**, which shall have the non-exclusive and unlimited right to publish the article in any form, including in electronic media. For articles with more than one author, the corresponding author confirms that he/she is authorized by his/her co-author(s) to grant this transfer of copyright.

The Asian Journal of Electrical and Electronic Engineering Journal follows the open access policy.

All articles published with open access will be immediately and permanently free for everyone to read, download, copy and distribute.

ASIAN JOURNAL OF ELECTRICAL AND ELECTRONIC ENGINEERING

eISSN 2785-8189



9 7 7 2 7 8 5 8 1 8 0 0 2



Published by:

AlamBiblio Press,
PV8 platinum Hill
Jalan Melati Utama, 53100 Kuala Lumpur, Malaysia
Phone (+603) 2713 7308

Whilst the publisher and editorial board make every effort to see that no inaccurate or misleading data, opinion or statement appears in this Journal, they wish to make it clear that the data and opinions appearing in the articles and advertisements herein are the responsibility of the contributor or advertiser concerned. Accordingly, the publisher and the editorial committee accept no liability whatsoever for the consequence of any such inaccurate or misleading data, opinion or statement.



This work is licensed under a Creative Commons Attribution-Non-Commercial 4.0 International License.



Volume 4, Issue 1, March 2024

TABLE OF CONTENTS

EDITORIAL.....	i
COPYRIGHT NOTICE	ii
ARTICLES	
IMPROVING ROTATIONAL STABILITY AND ENHANCING EFFICIENCY WITH VARIABLE INERTIAL FLYWHEELS AND MAGNETO-RHEOLOGICAL FLUIDS.....	1
<i>Syed Munimus Salam and Muhammad Mahbubur Rashid</i>	
MODELLING AND CONTROL OF A MAGNETIC LEVITATION SYSTEM.....	9
<i>S.M. A. Motakabber, AHM Zahirul Alam and Khairul Izham Bin Kamal</i>	
CONTROLLING THE VARIABLE INERTIA OF FLYWHEEL: A SCIENTIFIC REVIEW	17
<i>Muhammad Mahbubur Rashid and Syed Munimus Salam</i>	
DESIGN OF A WILKINSON POWER DIVIDER WITH HARMONIC SUPPRESSION FOR MOBILE APPLICATION	29
<i>Hanis Humaira Iskandar Tuah and AHM Zahirul Alam</i>	