

Engineering Dynamics and Applied Sciences

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Editorial

Introduction to Engineering Dynamics and Applied Sciences

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Abstract: Engineering Dynamics and Applied Sciences (EDAS) is an international, peer-reviewed, open-access journal established to promote the dissemination of high-quality research across all branches of engineering and applied sciences. This editorial outlines the vision, scope, and publishing model of the journal, emphasizing its interdisciplinary focus and commitment to academic integrity, transparency, and accessibility. EDAS provides a platform for original research and comprehensive review articles spanning mechanical, electrical, electronics, civil, computer, biomedical, computational, and applied science disciplines. Operating as an online-only journal with a continuous publication model, EDAS ensures the timely dissemination of research through immediate online publication upon completion of the editorial process. The journal follows an open-access policy under the Creative Commons Attribution 4.0 International license and supports long-term digital preservation through the PKP Preservation Network. This editorial serves as an introduction to the journal's mission, ethical standards, and contribution to advancing engineering research and innovation within the global scientific community.

Keywords: Editorial; Engineering research; Open access publishing, Interdisciplinary engineering

1 Introduction

Engineering research today operates at the intersection of multiple disciplines, driven by rapid technological advancement, global challenges, and the increasing need for sustainable and intelligent solutions. In this evolving landscape, Engineering Dynamics and Applied Sciences was established to serve as a comprehensive, interdisciplinary platform for the dissemination of high-quality research across all branches of engineering and applied sciences.

EDAS is a peer-reviewed, open-access international journal dedicated to publishing original research and scholarly reviews that contribute meaningfully to both theoretical understanding and practical innovation. The journal welcomes contributions from researchers, engineers, academicians, and industry practitioners, providing a forum where novel ideas, rigorous methodologies, and impactful applications can be shared with the global scientific community.

2 Focus and Scope

The scope of Engineering Dynamics and Applied Sciences is intentionally broad, reflecting the interconnected nature of modern engineering research. The journal covers, but is not limited to, the following areas:

- Mechanical Engineering: Covering topics such as robotics, thermodynamics, fluid mechanics, materials science, and design innovation, with an emphasis on novel solutions and sustainable practices.
- Electrical Engineering: Encompassing advancements in power systems, renewable energy, electrical machines, control systems, and high-voltage engineering, to address the challenges of energy generation, transmission, and distribution in a rapidly evolving energy landscape.
- Electronics Engineering: Exploring developments in integrated circuits, semiconductor devices, digital and analog electronics, signal processing, and telecommunications, to drive innovation in consumer electronics, telecommunications, and information technology sectors.
- Civil and Environmental Engineering: Addressing infrastructure development, structural integrity, construction materials, urban planning, transportation systems, geotechnical engineering, water resources management, and environmental sustainability, with a focus on resilient and eco-friendly solutions for a changing planet.
- Computer Engineering and Information Technology: Exploring breakthroughs in computer hardware and software, artificial intelligence, data science, cybersecurity, networking, and internet-of-things (IoT), to drive innovation and efficiency in a technology-driven society.
- Biomedical Engineering: Investigating the intersection of engineering and healthcare, including biomedical imaging, bioinformatics, medical devices, regenerative medicine, and biomechanics, to enhance quality of life and advance medical treatments.
- Computational and Theoretical Engineering: Utilizing computational methods, simulations, and theoretical models to solve complex engineering problems and predict system behaviors across various disciplines.
- Applied Physics and Chemistry: Integrating principles of physics and chemistry to develop innovative technologies and improve processes in fields such as nanotechnology, photonics, and electrochemistry.
- Interdisciplinary Applications: Encouraging research that crosses traditional boundaries, integrating multiple engineering disciplines and applied sciences to address multifaceted challenges and foster innovation.

3 Types of Articles

Engineering Dynamics and Applied Sciences publishes:

- Research Articles presenting original and unpublished research findings.
- Review Articles offering comprehensive and critical assessments of current research trends and developments in specific areas.

All submissions undergo a rigorous editorial and peer-review process appropriate to their article type, ensuring quality, originality, and relevance.

4 Open Access Policy and Copyright

EDAS is a fully open-access journal, providing immediate and free access to all published content. Articles are published under the Creative Commons Attribution 4.0 International (**CC BY 4.0**) license, allowing unrestricted use, distribution, and reproduction, provided the original work is properly cited.

Authors retain copyright of their work while granting the journal the right of first publication. Authors are also permitted to distribute their published work through institutional repositories or other platforms, with appropriate acknowledgment of its initial publication in EDAS. Article Processing Charges (APCs), where applicable, are transparently communicated on the journal website.

5 Publication Model and Archiving

Engineering Dynamics and Applied Sciences is an online-only journal that follows a continuous publication model within a single annual volume. Articles are published individually as soon as they complete the peer-review and editorial process, ensuring rapid dissemination of research without waiting for issue-based publication schedules.

To ensure long-term accessibility, EDAS participates in the PKP Preservation Network (PKP PN), which utilizes the LOCKSS (Lots of Copies Keep Stuff Safe) system for digital preservation. This guarantees that published content remains securely archived and accessible even in the event of service disruption.

6 Journal Independence, Platform, and Ethics

EDAS operates independently and is not sponsored by any external organizations, ensuring editorial autonomy and academic integrity. The journal is managed using Open Journal Systems (OJS), developed and maintained by the Public Knowledge Project under the GNU General Public License.

The journal adheres to strict ethical standards, including transparent editorial practices and a clear privacy policy. Personal data provided by authors, reviewers, and readers is used solely for journal operations and is not shared with third parties.

Finally, established in July 2024, Engineering Dynamics and Applied Sciences was founded to address the growing demand for an interdisciplinary engineering journal that bridges theory, computation, and real-world applications. Since its inception, EDAS has aimed to promote collaboration, innovation, and excellence within the global engineering and applied sciences community.

We invite researchers, scholars, and practitioners to submit their original research articles and review papers to EDAS and join us in advancing scientific discovery and engineering innovation for the benefit of society.