

Mechanical Engineering for Society and Industry: A Preface

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Abstract

In a research cycle, researchers need to publish their work and readers expect reliable arguments and information. Seeing society and industry needs relate to mechanical engineering for now and in the future, Mechanical Engineering for Society and Industry (MESI) is an important journal for academia, society, and industry, to discuss problems and solutions in mechanical engineering practice. The articles in this journal are representation of scientific editors and advisory boards dedication, reviewers contributions in improving articles quality, and authors contributions in providing standardised articles. Hopefully, this journal can be a source of new insights and inspiration for further research, as well as a new reference for society and industry to solve their problems.

Keywords: Mechanical engineering, Society and industry, Academic infrastructure



The importance of research and scientific publications - Scientific journals are an important academic infrastructure in a university to disseminate ideas and research findings. Often, research challenges common assumptions and scientific journals become the official platform for explaining them scientifically. Research reports that are bound and stored in the university library are only accessible to a limited number of communities. Meanwhile, scholars, society, and industry are looking for references to support their research, or in a broader scope, to help solve problems and create new solutions that they are facing. A new journal from the Universitas Muhammadiyah Magelang - **Mechanical Engineering for Society and Industry (MESI)** - focuses on discussing complex engineering problems, which combine the principles of engineering physics and mathematics with materials science to design, analyze, fabricate, and maintain mechanical systems (mechanics, energy, materials, manufacturing) that benefit the academic, social, and industrial communities. More specifically, this journal also has a vision to contribute to the Sustainable Development Goals (SDGs). The uniqueness of the discussion area and contribution of this journal may get the attention of world scientists to be involved in advancing this journal, both as author, reviewer, and editorial boards. I hope that the articles published in this journal provide insight into important issues, provide guidance for people or institutions who make decisions, and become references for developing future research.

Prof. Dr. Heri Hermansyah, S.T., M.Eng.

Novelty, contributions, and presentations are the success keys of scientific journals - Every day, even every minute, there may be thousands of articles submitted to thousands of journals around the world, but only a small number gets a place to be published in a trusted scientific journal. Perhaps, even fewer have succeeded in becoming a reference for academia, industry, and the business world in making decisions. Most authors want their articles to be published quickly, get appropriate reviews, and want to be cited quickly. However, readers want something different, they want to get the right argument and



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information from an article with easy access. Therefore, journal editors have a tough task in ensuring the quality of articles and at the same time being able to serve authors and readers, equally well. To maintain the journal's dignity, every published article must reflect at least three key characteristics: high novelty, real contribution, and good presentation. I hope and believe, **Mechanical Engineering for Society and Industry (MESI)** is able to carry out this noble task through strict peer review practices. Hopefully this journal will get the attention of the world scientific community, with published articles that have an impact on society and industry.

Dr. Lukman, S.T., M.Hum.



Unique and distinctive - One of the strategic breakthroughs in the disruption era of higher education governance is the need for scientific communication infrastructure through mutual academic competency partnerships between students, lecturers, business, and industry. Therefore, publication in scientific journals and citations are the accountable indicator of Outcome Base Education (OBE) practice to encourage problem-solving abilities of the academic community through effective scientific communication.

Mechanical Engineering for Society and Industry (MESI), a scientific journal that focuses on Basic Science (BS); Applied Science (AS); and Report of Technology Application (RTA) in the perspective of mechanical engineering, was presented to answer the challenge of synergy-collaboration between universities, society, and industry. This journal has a distinctive scope and was built by the spirit of professional journal management, involving partners from various leading universities, and several highly professional industrial communities. The name of this journal, MESI, is easy to remember, easy to pronounce, globally, and shows prospective energy dynamics. This scope is also very measurable, focused on three main characteristics: BS-AS-RTA. MESI, deserves to be called a distinguished journal that was born at the right time and will become a glorious journal in line with the glorious relationship between universities, society, and industry.

Prof. Dr. Harun Joko Prayitno, M.Pd.

From Unimma for sustainable society and industry - Today and in the future, the relationship between academia, society and industry must be closer and they must share experiences. The contribution of researchers and students on campus should be increased in solving societal and industrial problems. On the other hand, society and industry should be a source of ideas for researchers so that the results of their research can be streamed. Basic research, applied research, and evaluation of the application of technology in society and industry must be massively published through peer reviewed journals. **Mechanical Engineering for Society and Industry (MESI)** answers these challenges. We appreciate the vision of this journal, as a form of real contribution from the Universitas Muhammadiyah Magelang (Unimma) for society and industry, both on a national and global scale. May Allah bless us.



Dr. Lilik Andriyani, M.Si.



Filling the gap - We are delighted to have the publication of a new journal with unique aims and scope - **Mechanical Engineering for Society and Industry (MESI)** - as a reinforcement of academic and intellectual property infrastructure at our faculty. We welcome worldwide researchers to share their advanced knowledge and technology development in the fields of Mechanical Engineering. We sincerely believe that this journal will not only provide new directions of mechanical engineering research, but also present sustainability solutions that have positive impact to society and industry. Our great honor to express sincere gratitude to the scientific editors and advisory boards for their dedication in developing this journal, to the reviewers for their contribution in improving the quality of the articles, and to the authors for their contribution in providing high quality articles.

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