Journal of
Experimental and Theoretical Analyses

MDPI

Editorial

Journal of Experimental and Theoretical Analyses: The Journey from Research to Solutions

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Six months ago (September 2023), we began the journey of publishing a new and unique Open Access journal dedicated to publishing papers on the methods and applications of analysis science in both experimental and theoretical aspects in the more relevant fields of engineering, with a focus on its hottest specialized areas.

The content of the *Journal of Experimental and Theoretical Analyses* (*JETA*) (ISSN: 2813-4648) covers a wide range of topics, reflecting the multidisciplinary scope of our journal. *JETA* aims to become a reference point in the landscape of open access journals for the community of researchers involved in the fascinating multidisciplinary world of experimental and theoretical analyses.

1. Aims and Scope of *JETA*

Our journey began with a vision to create a platform that not only disseminates pioneering research but also fosters a community where experimental and theoretical analyses converge to inspire breakthroughs and practical solutions.

We are particularly committed to fostering advancements in industrial manufacturing, positioning our journal as a specialized forum for the dissemination and exchange of knowledge in this field, aware of its ethical and social relevance and impact on the well-being of humanity. We aim to include, but are not limited to, the following engineering disciplines: Bioengineering, Material Engineering, Electric and Electronic Engineering, Mechanical Engineering, Environmental Engineering, and Food Engineering.

The ensemble of topics of interest for *JETA* outlines a comprehensive landscape of specialized analytical techniques, theoretical approaches, and methodologies across various fields of engineering, all of which play pivotal roles in advancing industrial manufacturing. The underlying thread that connects these diverse areas is their focus on enhancing precision, efficiency, and innovation in manufacturing processes requiring sophisticated experimental and theoretical analyses for engineering practices.

Bioengineering: This area emphasizes the application of engineering principles to the biological world, which is crucial for biotechnological advancements. Techniques like spectroscopy, biomedical sensors, and enzymatic analysis methods are integral for developing new bioproducts and biomedical devices, directly impacting biomanufacturing and pharmaceutical industries.

Material Engineering: The focus here is on understanding and manipulating materials at the microscopic and atomic levels using techniques like TEM, SPM, tomographies, diffractions, and various spectrometry methods. These analyses are fundamental in creating new materials and devices with tailored properties, crucial for advanced manufacturing processes that require materials with specific characteristics for enhanced performance and durability.

Electric and Electronic Engineering: This field's emphasis on statistical analysis, noise reduction, and NDT contributes significantly to the development and maintenance of electrical and electronic systems in manufacturing. Techniques from this field ensure the reliability and efficiency of electronic components and systems integral to modern industrial processes.

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Mechanical Engineering: Here, the focus is on the design, testing, and analysis of mechanical systems. Advanced modeling and stress analysis are essential for developing new manufacturing methods like additive manufacturing, which revolutionizes how products are designed and produced, offering more customization and complexity in manufacturing.

Environmental Engineering: This field provides critical insights into the environmental impact of manufacturing processes, promoting sustainable practices. Advanced analytical methods in environmental engineering guide industries in minimizing their ecological footprint, ensuring compliance with environmental regulations, and enhancing the sustainability of their operations.

Food Engineering: The analysis in food engineering ensures the quality, safety, and efficiency of food production. Advanced analytical techniques are employed to assess food quality, develop new food products, and optimize manufacturing processes, ensuring that the food industry meets high standards of quality and safety.

Overall, experimental and theoretical analyses are the tools that provide the knowledge necessary to innovate, enhance quality, ensure safety and sustainability, and ultimately drive the industry forward in an increasingly technological and competitive landscape.

2. Merits of *JETA*

In 2023, we received and managed 23 submissions of original manuscripts, of which 7, after peer review, were published with an acceptance rate <30%. The published contributions were from scholars working for institutions in Brazil, Germany, Italy, Morocco, and the USA.

In 2023, there were over 7400 abstract views of the articles published in *JETA*, and there were over 2500 full-text visits including html views and pdf downloads. The data are from the statistics of the MDPI platform.

There are 23 members of the scientific team on the "Editorial Board", including the Editor-in-Chief and 3 Associate Editors, coming from Australia, France, Germany, Hong Kong, Israel, Italy, Portugal, Romania, Singapore, Spain, and the USA.

3. Indexing and Archiving of *JETA*

JETA is currently indexed by these indexing and abstract services: CNKI, CNPIEC, Digital Science, and EBSCO. It is also included in the directory of journals Sherpa Romeo. Furthermore, *JETA* is archived on the CLOCKSS and Helveticat (Swiss National Library) digital preservation portals. Moreover, it can be searched using Google Scholar, Scilit, and WorldCat. *JETA* is also available through the Repository Delivery Services DeepGreen and Jisc.

We are working on the numbers and quality of repositories, databases, indexers, archives, and portals where *JETA* is available/indexed, and real-time information on these is available at this link: https://www.mdpi.com/journal/jeta/indexing (accessed on 17 March 2024).

4. Conclusions

MDPI is actively increasing the visibility of our journal by promoting it at various international conferences. In order to increase the effectiveness of our dissemination efforts and to ensure a more substantial impact, a redesigned logo has recently been introduced in an attempt to better embody the essence and objectives of *JETA*.

Overall, our objective is to fill a gap in the editorial academic landscape by providing a platform dedicated to the dissemination of research that critically examines established paradigms and advances the frontiers of engineering knowledge.

JETA seeks to catalyze innovation and foster debate by encouraging the submission of studies that employ robust experimental and theoretical analyses to explore unconventional hypotheses and propose novel engineering solutions.

As a new scientific journal, our trajectory mirrors the natural progression from infancy to maturity, underscoring the importance of robust growth and development after

the initial launch. Just as the period after birth is critical for establishing strength and resilience, the early stages of our journal are crucial for building a foundation of quality, credibility, and impact. During this phase, we are committed to fostering a rich academic ecosystem that supports innovative research, encourages dynamic exchange, and cultivates a community of contributors passionate about pushing the boundaries of experimental and theoretical analysis.

Our goal is to make *JETA* a high-quality journal, making it a forum for debating and disseminating new results, becoming a leading voice in the scientific community, and contributing to set new standards for quality, excellence, and impact in our field.

On behalf of the Editorial Board, and on my own behalf as Editor-in-Chief, I warmly invite all members of the scientific community to increasingly rely on *JETA* to disseminate their achievements. New submissions of articles, short communications, reviews, and letters are welcome, as well as proposals for the publication of Special Issues dedicated to topics within the scope of *JETA*.

Anyone interested in setting up a Special Issue, or for any other information, can contact the journal office (jeta@mdpi.com), and I will be happy to receive any useful suggestions (marco.rossi@uniroma1.it) to increase interest in *JETA* from our scientific community.

Conflicts of Interest: The author declares no conflicts of interest.