Special Issue (1)

Proposal for Special Issue: "Recent Advances and Trends in Engineering"

Introduction:

Engineering is a field that thrives on constant innova on and evolu on. As we progress further into the 21st century, the acceleration societal demands and global challenges, is driving profound changes across various engineering disciplines. In light of these developments, we propose a special issue titled "Recent Advances and Trends in Engineering." This issue aims to gather leading research and perspectives at the cutting edge of engineering innovation, highlighting the multidisciplinary nature of the field and its far-reaching impact on modern society.

Scope and Objectives

This special issue will span a wide array of engineering disciplines, including bioengineering, bioinformatics, artificial intelligence, mechanical, industrial, computer science, chemical, and aerospace. Our objective is to compile a carefully curated selection of research papers, reviews, and case studies that spotlight:

- 1. **Innovative Technologies**: Showcasing breakthroughs in emerging fields such as bioengineering, bioinformatics, bioinstrumentation, computational biology, tissue engineering, medical device design, wearable health technologies, artificial intelligence, machine learning, robotics, and nanotechnology. These innovations are reshaping engineering practices and paving new paths for research and practical applications.
- 2. **Sustainability and Green Engineering**: With growing environmental awareness, sustainability has become a crucial focus. We welcome papers exploring advancements in renewable energy, energy-efficient designs, and sustainable materials that contribute to the development of eco-friendly engineering solutions for better outcome.
- 3. **Smart Systems and IoT**: The fusion of smart technologies and the Internet of Things (IoT) is revolutionizing engineering solutions. We seek contributions that delve into smart infrastructure of institutions, connected devices, and the role of data analytics in enhancing engineering systems.
- 4. **Interdisciplinary Approaches**: Addressing engineering challenges increasingly requires interdisciplinary approaches. We encourage submissions that explore how combining knowledge from different engineering fields and beyond is leading to innovative solutions for ongoing life problems and new research opportunities.
- 5. **Emerging Trends**: Identifying and analyzing emerging trends that will shape the future of engineering is essential. Papers on topics such as advanced manufacturing techniques, computational methods, robo cs, nanotechnology, drug delivery, 3D prin ng for medical and non-medical devices, and image computing, will be included to offer insights into future directions in the field.

Proposed Structure

The special issue will feature a balanced mix of high-quality research articles, comprehensive review papers, and practical case studies, providing readers with a well-rounded view of both theoretical advancements and real-world applications.

- 1. **Research Articles**: Original research findings and innovations in engineering. We are particularly interested in articles that provide new insights, experimental results, or technological advancements.
- 2. **Review Papers**: Comprehensive reviews that synthesize recent developments in specific areas of engineering. These reviews should critically evaluate current knowledge and highlight future research directions.
- 3. **Case Studies**: Practical case studies that demonstrate the application of recent advances in real-world scenarios. These studies will illustrate the impact of new technologies and methodologies in addressing engineering challenges.

Submission Guidelines

We invite researchers, practitioners, and scholars to submit their manuscripts for consideration. Submissions should follow the journal's standard formatting and submission guidelines, available on the journal's website. Each submission will undergo a rigorous peer-review process to ensure the highest quality and relevance.

Proposed Deadline

[31 December 2024]

Guest Editors

The special issue will be curated by a team of guest editors with expertise in engineering. We propose the following individuals, who bring a wealth of knowledge and experience to the topic:

1.

Name: Prof. Ayman El-Baz, PhD

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Research Interests: Artificial Intelligence, Machine and Deep Learning, Big Data, Medical Image Analysis, Computer-Aided Diagnostics, Computer Vision, Pattern Recognition

2.

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3.

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Research Interests: Artificial Intelligence, Machine and Deep Learning, Big Data, Medical Image Analysis, Computer-Aided Diagnostics, Computer Vision, Pattern Recognition

Conclusion

The special issue on "Recent Advances and Trends in Engineering" aims to create a comprehensive platform for discussing the latest research and emerging trends in the field. By featuring cutting-edge research and interdisciplinary perspectives, this issue will provide valuable insights into the evolving landscape of engineering. We anticipate that the contributions will foster knowledge exchange and inspire further advancements, driving continued progress and innovation in engineering. We look forward to your submissions and to presenting a special issue that reflects the dynamic and rapidly advancing nature of contemporary engineering research.

Special Issue (2)



"Visions for Future Cities, Sustainable Solutions and Applications-VFC 2024"

Dear Researchers and Scholars,

We are delighted to announce a call for papers for a special issue of "Mansoura Engineering Journal" VISIONS for Future Cities, Sustainable Solutions and Applications-VFC " special issue aims to bring together cutting-edge research and innovative ideas that explore the latest Tackling city challenges and turning obstacles into opportunities is our expertise. An intentional methodology for crafting sustainability through creative and innovative solutions. Today, VFC is offering this opportunity, in its fourth version, for exploring new topics & applications in sustainability. VFC provides a highly professional platform for researchers to present their latest concerns and advancements through collaboration, innovation, and knowledge exchange. theme of the special issue. All submissions will undergo a rigorous double-blind peer review process to ensure the high quality and relevance of the published content

Main Themes

Environmental engineering and Green Solutions. Green City and Green Infrastructure solutions. Buildings and Renewable Energy Efficiency Applications. Sustainability endeavors in the automotive Sector. Environmental chemistry and Waste Recycling. Environmental engineering, sustainability and green technology. Green Building, Materials, and Applications. Building Information Modeling and Sustainability. Smart and Sustainable Transportation. Eco-Smart Architecture. AI for Urban Sustainability. Tech-Infused Sustainability. Urban Design and Sustainability. Urban planning and Environmental Design.

For more information, Please check the Special Issue Call-for-Papers for new special issues.

If you have any questions or need further assistance, please do not hesitate to contact us at: mej@mans.edu.eg