



ENGINEERS DAY
13 September
Mauritius

Member of

Call for Papers

ENGINEERING INNOVATION FOR A MORE RESILIENT WORLD

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WFEO / FMOI

WFEO: World Federation of Engineering Organisations



FAEO: Federation of African Engineering Organisations



SAFE0: South African Federation of Engineering Organisation



The Commonwealth

CEC: Commonwealth Engineers Council

For more info, visit

WWW.IEMAURITIUS.COM



Important Dates

Photo & CV with Intention to Submit paper: **20 July 2024**

Final Paper Submission: **13 August 2024**

Notification of Acceptance: **05 August 2024**

Launch of Journal: **13 September 2024**

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ENGINEERING INNOVATION FOR A MORE RESILIENT WORLD

Engineering innovation plays a crucial role in building a more resilient world by developing solutions that enhance the ability of communities and systems to withstand and recover from various challenges. Key areas where engineering innovation contributes to resilience include:

1. **Infrastructure**: Designing and constructing buildings, bridges, and roads that can endure natural disasters such as earthquakes, hurricanes, and floods. This involves using advanced materials and technologies to create structures that are more durable and adaptable.
2. **Energy Systems**: Developing renewable energy sources and smart grid technologies to ensure a stable and sustainable energy supply. Innovations in solar, wind, and battery storage help diversify energy sources and reduce dependence on vulnerable centralized power grids.
3. **Water Management**: Creating efficient water management systems to cope with droughts, floods, and contamination. This includes the development of advanced desalination technologies, rainwater harvesting systems, and smart irrigation techniques.
4. **Urban Planning**: Implementing smart city technologies to improve urban resilience. This involves using data and sensors to monitor and manage resources, traffic, and emergency response systems more effectively.
5. **Climate Adaptation**: Engineering solutions for climate change adaptation, such as coastal defenses to protect against sea-level rise, and green infrastructure like urban forests and green roofs to mitigate urban heat islands and manage stormwater.
6. **Agriculture**: Innovating in agricultural engineering to create more resilient food systems. This includes the development of drought-resistant crops, precision agriculture technologies, and sustainable farming practices to ensure food security in the face of climate change.
7. **Disaster Preparedness and Response**: Designing technologies and systems for better disaster prediction, preparedness, and response. This includes early warning systems, resilient communication networks, and robust emergency management infrastructures.
8. **Health Systems**: Engineering advancements in healthcare to improve the resilience of health systems. This includes telemedicine, portable medical devices, and robust supply chains for medical supplies and medications.

By focusing on these areas, engineering innovation not only addresses immediate challenges, but also builds long-term resilience, enabling societies to thrive amidst uncertainties and disruptions. However the subjects are not limited to above and authors are encouraged to use their innovative engineering minds to propose other future solutions in other areas as well.



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Paper Guidelines

Papers should be relevant to the above theme, and therefore highlight the need for contribution of engineers to development in all the relevant domains. Please refer to the Call for Paper guidelines as well and also highlight Engineers role for designing the future.

For a successful and productive Journal, all contributors should adhere to the following guidelines:

Papers

- **No Abstracts are required. A Brief cv and photo of author and an intention to submit a paper** must be sent in by **20 July 2024**. Final written **Papers** must be around 2,000 words for the Journal, (4-5 pages) including illustrations and to be submitted by **13 August 2024**,
- Font to be used is **Times New Roman 12pt, single spacing**. All margins must be one inch on all sides for the body of the paper.
- **Multiple authors paper** will be accepted with a brief of each author's share of contribution & declare Competing Interests.
- All papers must be submitted as Microsoft Word docs. Papers in PDF may not be accepted.
- Do not include page numbers and a running head to allow the editors to combine all papers into one unified proceedings document.
- Use footnotes and endnotes sparingly, if at all. This helps the editors to combine all papers into a unified proceedings document and have the references correct for each paper.
- Figures will be reproduced exactly as supplied, with no redrawing. It is therefore imperative that the supplied figures are of the highest possible quality.
- Papers will go through a review process by the **Journal's Reviewers Committee**
- The Reviewers' Team will screen all papers to ensure amendments have been made where necessary, after the review process.
- Only selected papers will be published in electronic (& printed) formats in the Biannual IEM Journal which will be released on **13 September 2024**.
- The IEM reserves the right to publish the papers

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