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PROCEEDINGS OF  
**ISERD**  
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**MECCA, SAUDI ARABIA**

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Event Co-Sponsored by



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Institute of Research and Journals

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- ❖ To provide a world class platform to researchers to share the research findings by organizing International/National Conferences.
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- ❖ To help dissemination of their work through publications in a journal or in the form of conference proceedings or books.
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- ❖ To set up, establish, maintain and manage centers of excellence for the study of /on related subjects and discipline and also to run self supporting projects for the benefit of needy persons, irrespective of their caste, creed or religion.

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**International Society for Engineering Research and Development (ISERD)** is a **non-profit organization** that promotes the Engineering and Technology, related latest developments and issues to be discussed and experimented through interactions amongst the researchers and academician across the globe at a common platform in association with **The IIER.**

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## EDITORIAL

It is my proud privilege to welcome you all to the ISERD International Conference at Mecca, Saudi Arabia in association with The IIER. I am happy to see the papers from all part of the world and some of the best paper published in this proceedings. This proceeding brings out the various Research papers from diverse areas of Science, Engineering, Technology and Management. This platform is intended to provide a platform for researchers, educators and professionals to present their discoveries and innovative practice and to explore future trends and applications in the field Science and Engineering. However, this conference will also provide a forum for dissemination of knowledge on both theoretical and applied research on the above said area with an ultimate aim to bridge the gap between these coherent disciplines of knowledge. Thus the forum accelerates the trend of development of technology for next generation. Our goal is to make the Conference proceedings useful and interesting to audiences involved in research in these areas, as well as to those involved in design, implementation and operation, to achieve the goal.

I once again give thanks to the Institute of Research and Journals, ISERD & TheIIER for organizing this event in Mecca, Saudi Arabia. I am sure the contributions by the authors shall add value to the research community. I also thank all the International Advisory members and Reviewers for making this event a Successful one.

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