



International Federation of Engineering Education Societies (IFEES) is a leading global organization with the world's engineering education societies as members and leveraging the members' collective strengths in order to improve engineering education worldwide. An international conference, World Engineering Education Forum, is an annual event of IFEES, held at different locations across the globe, aimed to improve the quality of engineering education.

As known, Vellore Institute of Technology (VIT), is a progressive technology Institute and a highly ranked private Institute in National Institute Ranking Framework of India. Education Promotion Society of India (EPSI), is a society of Educators promoting Higher Education in India, with more than 10000 members of Engineering Educators. Indo-Universal Collaboration for Engineering Education (IUCEE) is a consortium of leaders of Engineering Educators from India & U.S.A to improve the quality and global relevance of Engineering Education in India.

With a main objective of promoting globalisation in engineering education and to provide a platform for sharing the best practices in engineering education, VIT is hosting the ninth edition of World Engineering Education Forum 2019 (WEEF2019) along with EPSI and IUCEE (www.weef2019.org), from Nov 13-16, 2019 at Chennai.

We had a very good thought-process in choosing an appropriate theme for WEEF 2019. Challenges faced by the Engineering Education, at present across the globe are: High cost of Engineering Education, Increase in Unemployment, specifically in developing countries, Concerns related to the quality, Decrease in the Gross Enrollment Index (GEI) in higher education, Lack of support from the Government, Complexities in the expansion of Engineering Education to meet the future requirements and Re-defining the 'Engineers' owing to the technological societal transformations.

Recent technologies have transformed many sectors of various domains of our society. In fact, Disruption is an innovative transformation in a sector that facilitates simplicity, convenience, accessibility & affordability. It has

been a long dream of the educationists to investigate as well as to explore the possibilities of disruptive engineering education with a paradigm shift in the existing practices that lead to simplicity, convenience, accessibility & affordability for sustainable development.

Accordingly, the main theme of WEEF2019 is ‘Disruptive Engineering Education for a sustainable development’ with the major components of the Engineering Education, getting reflected as the five sub-themes: Disruptions in Student-centered Learning, Disruptions in the process of Engineering Education, Disruptions in the Institute-Industry Interaction, Disruptive Technologies and Socio-economic development through disruption.

Appropriately, the slogan of WEEF 2019 is chosen as D^4 (Four D’s), aptly described as : **D**iscover (the Problem), **D**iscard (the usual way of solving the problem), **D**isrupt (the process with the technology to make it simple, **D**evelop (with sustainability).

The logo of WEEF 2019, with a brain-storming pose of a Human, straining all the neurons of the brain, to explore all the possible avenues to disrupt the Engineering Education, for the development of the society, pictorially describes the four D’s of the slogan.

The responses to the call-for-papers had been overwhelming. Unfortunately, many manuscripts could not be accepted due to the outcomes of the technical reviewing committee. We would like to express our gratitude and appreciation for all of the reviewers who helped us maintain the high quality of manuscripts included in the proceedings published by *Procedia Computer Science*. A total of 167 papers is being presented in WEEF 2019. We would also like to extend our thanks to the members of the organizing team for their hard work.

With great privilege, we present the proceedings of WEEF 2019, to the authors and the delegates of the event. We hope that the ideas presented through papers will be useful, exciting and inspiring and implementable in making the whole process of Engineering Education more simpler, matching the theme of WEEF 2019.

Wishing the very best to all participants and hoping for more of your collaborative efforts as we did witness in the making of a successful WEEF 2019.