

Introduction

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Biographical notes: N. Shankar Ganesh is a Professor in the Department of Mechanical Engineering at Kingston Engineering College, Vellore, Tamil Nadu, India. He received his MTech in Energy Systems Engineering and PhD in Power Generation Cycles from Vellore Institute of Technology in 2002 and 2014. He has published more than 40 research papers in various reputed International and National journals as well as conference proceedings. He has contributed one book and two book chapters. He has also published a patent on a Thermodynamic cycle based power generation system. His research areas include processes simulations for advanced combined cycle power plants, modelling of heat recovery steam generators, and solar thermal power technology.

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Mechanical engineering is one of the major activities in the engineering profession and its principles are involved in the design, study, development and construction of nearly all of the physical devices and systems. The field of virtual engineering has gained significance in recent years with the availability of numerical procedures and software developed to support designers and analysts. The proposed subject of the special issue will covers the major specific areas in mechanical engineering not confined to a smaller objective. The special issue is intended to encourage the young researchers to explore their talents and will provide a platform to get its uniqueness. Review the existing knowledge of thermal, energy, manufacturing, design etc. and disseminate latest findings for better use of the modern techniques. Document the achievements made in the field of energy technologies especially from the developing countries. Identify the major thrust areas where intense research is required. This volume will incorporate a representation of virtually every field that surrounds the use of developing technologies in diverse fields. This issue will be distinguished from others in its integrative nature.

The issue will carry revised and substantially extended versions of selected papers presented at *1st International Conference on RECENT ADVANCES IN MECHANICAL ENGINEERING (ICRAME 2017)* but we also strongly encourage researchers unable to participate in the conference to submit papers for this call.