

Special Session
International Conference on “Futuristic Sustainable Energy & Technology-2021”
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[Feasibility and Sustainability of Renewable Energy and Allied Technologies]
Submitted by

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[Introduction/Overview]

Energy is of major importance to civilization, because it is driving force which binds human race. The estimation of energy in the form of renewable and sustainable is one of the important aspects to understand the how resources are harnessed and to predict what might happen under various possible future conditions. Using available modelling techniques to generate the best algorithms, the objective will be to determine the best solution in terms of comparing the performances of the solutions through different parameters for a specific case.

Consumption of Fossil fuels at a rapid pace has generated an alarming situation and with the subsequent increase in the number of vehicle the pollution level has reached well beyond human's control. This is frightening enough to observe the fact that the pollution level has surpassed all records and the need of the hour is to find an alternate fuel which can really be of great assistance in reducing the exhaust emission and augment the performance parameters of engine. Major researches are carried out on various engines to draw closer towards a realistic solution. Experiments performed on various engines are considered to be time consuming and the expenses met to perform these experiments are too costly, so the need of soft computing techniques involved in this area.

This special issue will focus on to carry out the comprehensive review and various other experimental work of various researchers who have carried out the work on these various soft computing techniques on various engines with various alternative fuels On the basis of modelling techniques, time is saved to a great extent and the capital investment involved is comparably very low. Thus soft computing techniques are fast and reliable hence, they can

be a substitute for conventional experiments. It is also dedicated to the advancement of energy efficiency to mitigate consumption, ensure and replenish, expand and reuse elective energy supplies, and to replicate the damage caused by previous energy initiatives.

[Scope of the Session]

The special issue has been designed to motivate prominent researchers to address issues of novelty and scientific relevance in the design, assessment, improvement, and innovation of RES-based systems to give them good rates of functionality, energy-performance, and sustainability. Authors worldwide are, so, invited to contribute their full-length, peer-review ready papers to report upon findings from energy planning and analysis, and/or Life Cycle Assessments (LCAs).

In this way, the special issue will serve as a platform to exchange knowledge on emerging methods and technologies, practical implementations, state-of-the-art analyses, findings, and lessons learned in this area of research. It will make it possible to promote research works that help to develop, integrate, and possibly improve renewable technologies into the various sector, and to encourage farmers, producers, planners, and managers, as well as researchers, practitioners, policy- and decision-makers, to share their knowledge and experience on the benefits of REs .

The area to be covered by this Special issue will not be limited to the Renewable and Sustainable energy only. The topics to be covered will be effectively in the interest of society at large.

- Solar and wind Energy
- Greenhouse
- Biomass
- Renewable and sustainable energy
- Energy Reviews
- Application of Solar energy in various fields.
- Study and analysis of Energy sector in present scenario
- Application of Various modelling techniques for improvement in performance and emission parameters in Engines
- Energy scenario-utilization and production
- Various case studies on Effective utilization of Renewable energy
- Potential of Various Soft computing Techniques to be used for Renewable and Sustainable energy.
- Special Energy reviews on various modelling techniques used
- Environmental modelling
- Information and Communications Technologies
- Technology for Sustainable Cities and community
- Technology for Clean water and sanitation
- Technology for Climate Action
- Technologies for good health and wellbeing
- Other Technologies to achieve Sustainable Development goal