3rd International Symposium on Sustainable Energy And Technological Advancements

(23rd – 24th February 2024)

ISSETA 2024 Special Session on

The Future of Energy: Sustainability, ESG, and Climate Change

Aims and scope of the session:

The special session explores the interconnectedness of energy sustainability, ESG principles, and climate change mitigation strategies. It also examines the role of sustainable energy solutions in addressing climate change and achieving net-zero emissions targets. The session addresses the challenges and opportunities of transitioning to a sustainable energy future. The objective is to highlight the importance of ESG considerations in energy investments and decision-making.

This special session track brings together researchers, practitioners, and policymakers to discuss the latest developments and challenges in this rapidly evolving field. The track will focus on the following key areas:

- **Energy sustainability** includes topics such as renewable energy, energy efficiency, and energy storage.
- **ESG** includes topics such as environmental impact, social responsibility, and good governance.
- **Climate change** includes topics such as mitigation, adaptation, and resilience.

Topics of interest:

The special session track will cover a wide range of topics related to energy sustainability, ESG, and climate change, including (but not limited to):

1. Renewable energy technologies and their role in the energy transition
2. Energy efficiency and conservation measures
3. Sustainable energy infrastructure and grid modernization
4. The role of ESG investing in accelerating the transition to clean energy
5. Policy frameworks and incentives for promoting sustainable energy solutions
6. The social and economic impacts of the energy transition
7. Strategies for adapting to climate change and building climate resilience
8. Case studies of successful sustainable energy initiatives
9. Measuring and reporting on ESG performance in the energy sector.
10. The role of the energy sector in achieving net zero emissions.

Special session organizers:

1. **Dr. Mohan Krishna S**
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Dr. Mohan Krishna. S (SMIEEE) is currently associated with the Supply Chain Management Center (SCMC), a strategic multidisciplinary Centre of Excellence at the Indian Institute of Management, Bangalore as Manager-Research. His current skill set includes sustainability and supply chain consulting, carbon mapping and management, greenhouse gas accounting and consulting in the domain of electric mobility. He was awarded Ph.D. in Electrical Engineering (Sensorless control of induction motor drives for EV applications) from Vellore Institute of Technology (VIT), India, in March 2017. He received his B. Tech and MTech degrees in Electrical engineering and acquired a domain specific MBA (Power Management). His research interests include energy sustainability and supply chain, electric vehicles - battery value chain, battery management systems, motor state estimation, smart homes and IoT based building energy management systems etc. He is a senior member of IEEE and is additionally involved in many extension activities for the benefit of the industry and academia, notable among them, is his responsibility as an EXECOM member of the young professional's affinity group (YPAG), IEEE Bangalore section	

2. Dr. Aditya Gupta
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Dr. Aditya Gupta is currently employed as the Chief Operating Officer for the Supply Chain Management Center, which is one of the centers of excellence located at IIM Bangalore. In addition to this, he also serves as the head of the newly established TCI-IIMB Supply Chain Sustainability Lab at IIM B. Prior to his academic pursuits, Dr. Gupta gained extensive experience as a supply chain practitioner in the corporate sector, holding various positions of responsibility at organizations such as Tata Group, TVS Group, Jindal Group, Virgin Mobile, and Moser Baer, for a period of 23 years. He completed his PhD in 2019 and subsequently transitioned from a career in corporate to academia.

Sustainability is a subject that Dr. Gupta holds deep passion for. He has built several tools like Transportation Emission Measurement Tool, Carbon Accounting Tool to measure Scope 1, 2 and 3 emissions and others in the domain of Sustainability. He has collaborated with several organizations to establish environmental stewardship initiatives, enhance supply chain sustainability, and promote ESG practices. He has been writing on Sustainability in the form of research papers, case studies, white papers and though leadership articles.

3. Dr. B Rajanarayan Prusty
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Dr. B Rajanarayan Prusty (Senior Member, IEEE) is a Professor and Associate Dean - Research in the School of Engineering, Galgotias University, Greater NOIDA, INDIA. He obtained his Ph.D. from the National Institute of Technology Karnataka, Surathkal. His exceptional research work during his Ph.D. has led him to crown the prestigious POSOCO Power System Awards for 2019 by Power System Operation Corporation Limited in partnership with IIT Delhi. In recognition of his publications from 2017 to 2019, he was awarded the University Foundation Day Research Award-2019 from BPUT, Odisha. He has 30 SCI journal publications and 50 international conference publications. He has authored 10 book chapters. He has co-authored a textbook entitled "Power System Analysis: Operation and Control" in I. K. International Publishing House Pvt. Ltd. He has also edited two books for CRC Press. He has been an active reviewer and has reviewed more than 500 manuscripts. He is the Associate Editor of "Journal of Electrical Engineering & Technology," and "International Journal of Power and Energy Systems." He is also the Academic Editor for the journals (i) "Mathematical Problems in Engineering," (ii) "International Transactions on Electrical Energy Systems," and (iii) "Journal of Electrical and Computer Engineering." He has handled more than 200 manuscripts in the capacity of Journal Editor. His research interests include data preprocessing, time series forecasting, high-dimensional dependence modeling, and applying machine learning and probabilistic methods to power system problems.