



**International Technical Conference on
"Control in Electric Vehicles
and
Smart Grid with Renewable Energy
Synergies for Sustainable
Development"
VIT-CES-RES 2024
(SERB Sponsored)
Organized by
School of Electrical Engineering (SELECT)
Vellore Institute of Technology (VIT)
Chennai, Tamil Nadu, India
10-11, May 2024
(Offline mode)**

ABOUT VIT

VIT has made a mark in the field of higher education in India by providing quality education on par with institutions of international standards, through its 39 years of existence in a cross-cultural ambience with extensive application-oriented research. VIT was founded in 1984 by Dr. G. Viswanathan, a former parliamentarian and Minister in the Tamil Nadu Government, as a self-financing institution called Vellore Engineering College. Since then, the institution has grown from strength to strength. Conferred upon the status of Deemed to be University in 2001 by MHRD, VIT currently offers UG, PG, and Research programs on its four campuses at Vellore, Chennai, Bhopal, and Amaravati.

ABOUT VIT CHENNAI

VIT Chennai was established with the aim of providing quality higher education on par with international standards. It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. The campus has a cosmopolitan atmosphere with students from all corners of the globe. Experienced and learned teachers are strongly encouraged to nurture the students. Our Memoranda of Understanding with various international universities are our major strength. They provide for an exchange of students and faculty and encourage joint research projects for the mutual benefit of these universities.

VIT Chennai is a globally engaged, competitive, comprehensive, and research-enriched university campus strategically positioned in the capital city of Tamil Nadu, to respond to major industrial, social, economic, and environmental demands and challenges. VIT Chennai is ably spearheaded by the Vice Presidents Mr. Sankar Viswanathan, Dr. Sekar Viswanathan, Dr. G.V. Selvam, Assistant Vice President Ms. Kadhambari S. Viswanathan and Vice Chancellor Dr. V. S. Kanchana Bhaaskaran.

The focus of the university is:

- To maximize the Industrial Connectivity
- To create Centres of Excellence in contemporary areas of research
- To enrich Technological and Managerial Human Capital nurtured in a multicultural ambience
- To provide a common platform for the agglomeration of ideas of personnel from various walks of life for learning enrichment
- To create opportunities and exploit the available resources to benefit industry/society
- To encourage participation in the National Agenda of knowledge building
- To foster International collaborations for mutual benefits in areas of research

ABOUT THE SCHOOL OF ELECTRICAL ENGINEERING (SELECT)

At VIT Chennai, the School of Electrical Engineering (SELECT) was established in the year 2010. Since the

inception of the institute, the department developed the state-of-the-art infrastructure for teaching and research. In addition, the Smart Grid lab is unique of its kind in the country. The school has highly qualified and experienced faculty members. The school offers B.Tech (EEE), B.Tech (Electrical and Computer Science Engineering), M.Tech (Electric Mobility), and Ph.D. programs in Electrical and Electronics Engineering. There are four major research groups: Power Systems, Power Electronics, Control & Instrumentation, and Electrical Machines & Drives. The research findings of these groups are published in several peer-reviewed International Journals with high impact factors. The school has always endeavored to contribute significantly to the growth of technical education. The school has organized several workshops, seminars, Value added programs, and guest lectures for the benefit of faculty, students, and research scholars of educational institutions in and around the region. The school has also signed MoUs with various industries for collaborative work. Eminent professors from reputed Indian and foreign universities share their expertise for the benefit of the students.

ABOUT THE CONFERENCE

The main objective of the VIT-CES-RES Conference 2024 is to provide a virtual platform for researchers, academicians, and industries to exhibit their research outcomes and innovative ideas in specialized fields. The present world is looking for feasible alternatives to conventional fossil fuels. Integrating renewable energy sources with the existing grid has proved to be a viable solution. As renewable sources are inherently intermittent, energy storage systems are essential to provide reliable power to consumers. The controllers play a vital role in providing stable power output to the loads by reducing the variations between the expected and actual parameters. A smart grid is a promising and self-sufficient system that is based on digital automation technologies to monitor, control & provide effective solutions to the utilities and consumers. Nowadays, to reduce the carbon dioxide gas emission from motor vehicles and to save Mother Nature, electric vehicles are becoming more practical. This conference aims to motivate researchers in these thrust areas to share their expertise and gain knowledge, besides creating awareness among the people about energy conservation and alternative energy resources and their utilization. The main area includes controllers, electric vehicles, and various motors in EVs, smart grids, Renewable Energy Sources, and Energy Storage Systems.

Call for papers for the conference presentation

We invite the papers in the following areas, but not limited to:

- Smart Grid Technology
- Electric Vehicles
- Various motors in EV
- Wireless charging methods
- Artificial Intelligence & Machine Learning
- Cyber-Physical Systems
- Distributed Generation
- Renewable Energy Sources and its integration
- Energy Storage Systems
- Control Techniques in Microgrid
- Power System Analysis
- Optimization Techniques
- Power Electronic Interfacing for Hybrid Microgrid
- Industrial Automation
- Power Quality
- Materials Processing and Characterization
- Sustainable Environment

Publication

All the accepted and presented papers will be published in the conference proceedings. Selected quality papers will be published in **Scopus Indexed Publication (Book Chapter/ Journal)** after peer review with additional charges for Journals.

Registration Fee

- For paper presentation : **Rs.2000/paper**
- For conference participation : **Rs.750/participant**

All original and unpublished papers could be sent for the conference presentation. The papers should be in Word format, Times New Roman font with 12 size, single columns with single spacing, and a minimum of 10 pages. The similarity in the papers should be less than 10%. The papers and the filled registration form should be sent to vitcesres@gmail.com

Travel allowance (TA) will be given for presenting authors of few selected papers.

Mail communication will be sent separately to the authors for further process.

Online presentation will be allowed only for international participants

Important Dates:

- Paper submission deadline : 25/03/2024
- Paper acceptance date : 10/04/2024
- Registration starting date : 11/04/2024
- Registration closing date : 20/04/2024

Conveners

Dr.T.Deepa & Dr.S.Angalaeswari

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- ❖ Dr. Rajakumar Arul, Assistant Professor, SCOPE

Keynote Speakers



Prof. Ramesh C. Bansal
Professor, Electrical Engineering Department Building, College of Engineering, University of Sharjah, UAE



Ts Dr Ramani Kannan,
Department of Electrical and Electronics Engineering, Universiti Teknologi PETRONAS, Malaysia



Dr. Mohan Kolhe, Professor,
Faculty of Engineering and Science, University of Agder, Norway



Dr. P. Lakshmi, Professor,
Department of Electrical and Electronics Engineering, Anna University, Chennai, Tamil Nadu, India



Mr. Kamaleswaran,
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Registration Form

International Technical Conference on "Control in Electric Vehicles and Smart Grid with Renewable Energy Synergies for Sustainable Development" VIT-CES-RES 2024 10-11, May, 2024

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Mobile number: _____

Mail ID: _____

Designation: _____

Faculty/Student/Research Scholar/Industry

Department: _____

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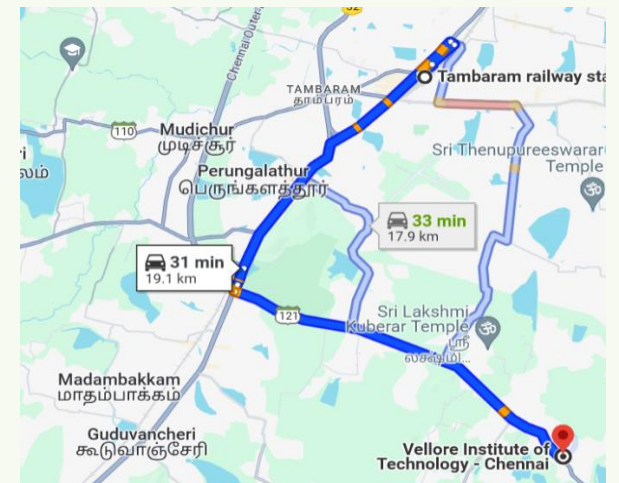
Title of the Paper: _____

I declare that the paper submitted to this conference is original and unpublished. I will be presenting the paper in offline mode if the paper got accepted

Signature of the Author: _____

Signature of the Guide/ HoD/Dean: _____

Seal of the department: _____



- ❖ NAAC Accreditation with A++ grade in the 4th cycle 2021
- ❖ The 8th best University, the 11th best research institution and the 11th best engineering institution in India (NIRF Ranking, Govt. of India 2023)
- ❖ Ranked among the top 701-800 Universities of the world and one among the top 5-8 Institutions in India (Shanghai ARWU Ranking 2023)
- ❖ Ranked among the top 851-900 Universities of the world (QS World University Ranking 2024)
- ❖ Ranked 449 Universities of the world and 8th best University in India (QS World University Ranking: Sustainability 2024)
- ❖ Ranked within the top 175 Universities in Asia (QS-Asia University Rankings 2023)
- ❖ Engineering and Technology subject areas of VIT are the 240th best in the World and the 9th best in India (QS World University Rankings by Subject 2023)

