

Vellore Institute of Technology, Chennai
Electric Vehicle: Incubation, Testing, & Research Centre
and
School of Electrical Engineering
in association with
Ontario Tech University, Canada



First International Conference on
Electric Vehicle and Sustainable Transportation – EVEST 2022
9th – 10th September 2022

About VIT

Being founded in 1984, VIT has made a mark in the field of higher education in India imparting quality education in a multi-cultural ambience, intertwined with extensive application-oriented research. VIT was established with the aim to provide 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. VIT was established by well-known educationalist and former parliamentarian, Dr. G. Viswanathan, Founder and Chancellor, a visionary who has transformed VIT into a center of excellence in higher technical education. Govt. of India recognized VIT as an Institution of Eminence (IoE). ARIIA, Govt. of India recognized VIT as a No. 1 Private University for Innovation MHRD, VIT has been ranked 28th in Overall Category, 15th in Engineering Category, 16th in university and 55th in Management by the MHRD-NIRF Ranking 2020. VIT Chennai is ably spearheaded by Sankar Viswanathan, Vice President; Kadambari S. Viswanathan, Asst. Vice President; Dr. Rambabu Kodali, Vice Chancellor and Dr. V. S. Kanchana Bhaaskaran, Pro-Vice Chancellor. The focus is to:

- To maximize the industrial connectivity.
- To create centers 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 benefit in areas of research.

About Electric Vehicle: Incubation, Testing and Research Centre (eVITRC)

Globally, automotive industry is passing through a paradigm shift. The past century was the era of internal combustion engine primarily because of the ease of use, availability and low-cost of fossil fuels. The shift to electric mobility has become necessary on account of fast depletion of fossil fuels, rapid increase in energy costs, and impact of transportation on the environment and concerns of climate change. “Electric Vehicles - Incubation, Testing and Research Centre (eVITRC)” is one of the Research Divisions of Vellore Institute of Technology Chennai established in August 2020.

The Centre focuses on research and development in the key broad areas like Powertrain, Wireless charging, Battery and Battery management systems (BMS), Power quality analysis, Light weighting, Noise vibration and harness analysis, ancillaries etc.

About School of Electrical Engineering

The School of Electrical Engineering (SELECT) at VIT was established for imparting a state-of-the-art education, training and research in Electrical and Electronics Engineering, and allied areas. It offers B.Tech and PhD program in Electrical Engineering. The program has the credit of being Top 10 in India and 301 – 350 in QS World Ranking by subject. At VIT, knowledge impartment through experiential learning and guidance by highly qualified and experienced faculty along with state-of-the-art laboratory infrastructure are the keys to success. This makes VIT the best place for Electrical and Electronics Engineering in Chennai.

About Ontario Tech

Modern and forwarding-thinking, Ontario Tech University advances the discovery and application of knowledge to accelerate economic growth, regional development and social innovation. We inspire and equip our students and graduates to make a positive impact in a tech-focused world. In addition to excellence in teaching, we offer our students experiential learning opportunities through internships, co-ops, practicums, research projects and more. In fact, 85 percent of upper-year undergraduate students participate in experiential learning. We collaborate with industry, community, government and academic organizations, bringing them together with our researchers and students to uncover innovative solutions for our partners’ most pressing problems. The home to more than 80 specialized research laboratories and facilities, we’re committed to attracting passionate and capable scholars to our high-tech campus.

About the conference

The objective of this conference is to provide a platform and opportunities for people from different domains working in the area of Electric vehicle to exchange their research experiences and share new ideas to promote their research progresses. Different challenges, practical issues as well as solutions adopted are to be discussed

The development of electric vehicles technologies and faster adaptation has generated a great deal in improving the sustainability of the transportation model. Electric mobility has experienced a significant advance in the last decades due to technological advancements, bringing a dramatic change to our societies and transforming our lives. This is particularly true in the current times where mankind faces serious risks due to the well-known pandemic and global warming. Safe and clean transportation is more relevant than ever in history. The conference will provide a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns, as well as practical challenges, encountered and solutions adopted in the fields of Electric Vehicle Technologies.

The Proceedings of the conference will contain quality research findings from researchers, practitioners and educators on the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Electric Vehicle Technologies. The scope of the topics covers major aspects of electrical parts, mechanical design and communication technologies required for Electric vehicle design. The amalgamation of various engineering disciplines will bring in research papers from interdisciplinary and trans-disciplinary researchers working in this field.

Call for papers for the conference presentation

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

- Power Converters for Electric Vehicles
- Battery Management Systems
- Batteries and Energy Storage for EV Applications
- Charging Infrastructure for EVs.
- Power train design and considerations
- V2G Technology
- Communication in EV
- AI and Machine Learning approaches for EV Automation
- IoT in EV management
- Electric Vehicle Economics
- Motor design and Controllers for EV
- Vehicle Control Unit
- Wireless Charging
- Integration of RES & EV
- Hybrid Vehicles
- Power Quality issues due to EV Charging facilities

Mode of Conference:

Hybrid Mode (Both Physical & Online)

Paper Submission & Publication

All original and unpublished papers must be sent for the conference presentation. The papers should be prepared as per IEEE double column format and should be submitted in PDF format, not exceeding 6pages. The similarity index for the paper contents should be less than 20%. All manuscript must be submitted via:

<https://cmt3.research.microsoft.com/EVEST2022>

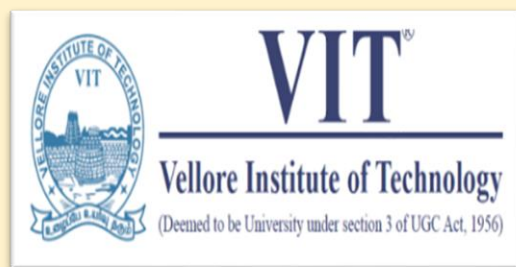
For formatting guidelines refer:

<https://www.ieee.org/conferences/publishing/templates.html>

Technical Partner:

TATA Elxsi (P) Ltd, Trivandrum





Vellore Institute of Technology, Chennai
Electric Vehicle: Incubation, Testing, & Research Centre
and
School of Electrical Engineering
in association with
Ontario Tech University, Canada



First International Conference on
Electric Vehicle and Sustainable Transportation – EVEST 2022
9th – 10th September 2022

Organizing Committee:

Chief Patron:

Dr. G. Viswanathan, Founder and Chancellor

Patrons:

Mr. Sankar Viswanathan, Vice President
Dr. Sekar Viswanathan, Vice President
Mr. G. V. Selvam, Vice President
Ms. Kadhambari S Viswanathan, Assistant Vice President

Co-Patrons:

Dr. Rambabu Kodali, Vice Chancellor
Dr. V. S. Kanchana Bhaaskaran, Pro Vice Chancellor

Convenor:

Dr. N.C. Lenin, Professor & Dy. Director - eVITRC

Conference Chairs:

Dr. P. Balamurugan, Associate Professor, VIT Chennai.
Dr. J.L. Febin Daya, Professor, VIT Chennai.
Dr. Vijay K Sood, Professor, Ontario Tech, Canada.

Working Committee:

Faculty of eVITRC, VIT Chennai.
Faculty School of Electrical Engineering, VIT Chennai.
Faculty of Engineering & Science, Ontario Tech, Canada.

Important Dates:

Event Name	Date
Full Paper Submission	20. 06. 2022
Notification of Acceptance	01. 07. 2022
Commencement of Registration	01. 07. 2022
Final Paper Submission (Camera Ready)	25. 08. 2022
Closure of Registration	05. 09. 2022

Registration Fee:

Type	Fees
Paper presentation (Indian)	INR 7000
Paper presentation (Foreign Nationals)	USD 150
Participation (Indian)	INR 2500
Participation (Foreign Nationals)	USD 50

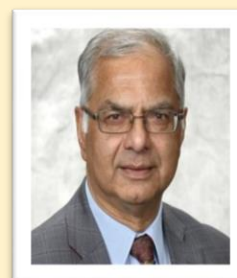
International Advisory Committee:

1. Dr. Kamal Al-Haddad, Director, ÉTS-Bombardier Transport Industrial Research Laboratory, Canada.
2. Dr. Ambrish Chandra, Professor, ÉTS-Bombardier Transport Industrial Research Laboratory, Canada.
3. Dr. Frede Blaabjerg, Aalborg University, Denmark.
4. Dr. Sheldon Williamson, Ontario Tech University, Canada.
5. Dr. Sanjeevikumar P, Aarhus University, Denmark.
6. Dr. Thinagaran Perumal, Universiti Putra Malaysia, Malaysia.
7. Dr. Atif Iqbal, Qatar University, Qatar.
8. Dr. Ramani Kannan, Universiti Teknologi Petronas.
9. Dr. Aktar Kalam, Victoria University, Australia.
10. Dr. Carlos Ugalde-Loo, Cardiff University, UK.
11. Dr. Olorunfemi Ojo, Tennessee Tech University, USA.
12. Dr. Nizam Mir-Nasiri, Nazarbayev University, Kazakhstan.
13. Dr. Patrick Wheeler, University of Nottingham, UK.
14. Dr. Lila Iznita Izhar, Universiti Teknologi Petronas, Malaysia.
15. Dr. Lucian Mihet-Popa, Oestfold University College, Norway.
16. Dr. Tole Sukitno, Universitas Ahmad Dahlan, Indonesia.

National Advisory Committee:

1. Dr. Raghavan, Indian Institute of Technology- Gandhi Nagar.
2. Dr. Bobby George, Indian Institute of Technology- Madras.
3. Dr. Prabhu Mohandas, National Institute of Technology, Calicut.
4. Dr. Arul Daniel, National Institute of Technology, Tiruchirapalli.
5. Dr. S. Kumaravel, National Institute of Technology, Calicut.
6. Dr. M.P.Selvan, National Institute of Technology, Tiruchirapalli.
7. Dr. Karthik Thirumala, National Institute of Technology, Tiruchirapalli.
8. Dr. G. Koperundevi, National Institute of Technology, Puducherry.
9. Dr. G. Uma, Anna University, Chennai.
10. Dr. A. Kavitha, Anna University, Chennai.
11. Dr. A. Deepak, ePropelled, Chennai.
12. Er. Ajoy Anirudhan, TATA Elxsi, Trivandrum.
13. Dr. Prajof Prabhakaran, National Institute of Technology, Suratkal.
14. Dr. Ranga Shrinivas Gunti, Mahindra Research Valley, Chennai.
15. Dr. V. K. Arun Shankar, Danfoss, Chennai.
16. Dr. Prabjot Kaur, Esmite EVs, Chennai.

Keynote Speakers:



Dr. Vijay K Sood
Department Chair & Associate Professor
Department of Electrical, Computer and
Software Engineering
Ontario Tech University, Canada.



Dr. Sheldon Williamson
Faculty of Engineering and Science
Ontario Tech University, Canada.



Dr. Ranga Shrinivas Gunti
Head - Technical Capability Building,
Automotive Product Development,
Mahindra Research Valley, India.



Dr. Prabjot Kaur
Co-Founder and CEO, Esmite- Poiner
in EVs
Chennai, India.

Contact Details:

Dr. P. Balamurugan
Associate Professor,
Electric Vehicle: Incubation, Testing, & Research Centre,
Vellore Institute of Technology, Chennai
✉ balamurugan.p@vit.ac.in; ☎ +91-996-210-4997

Dr. J.L. Febin Daya
Professor,
Electric Vehicle: Incubation, Testing, & Research Centre,
Vellore Institute of Technology, Chennai
✉ febindaya.jl@vit.ac.in; ☎ +91-999-446-8737