



Vellore Institute of Technology, Vellore

Virtual International Conference on

Smart Grid and Green Energy Systems (SGGES'2021)

Organized by

School of Electrical Engineering
Department of Energy and Power Electronics

In Collaboration with

School of Electronics Engineering, Kyungpook National University,
South Korea

&

School of Renewable Energy and Smart Grid Technology Naresuan
University, Thailand

Technically Sponsored by



Conference Date: 30/07/2021 - 31/07/2021

About the Institute

VIT was founded in 1984 as Vellore Engineering College by the Chancellor, Dr. G. Viswanathan. From its humble beginnings, the institution has grown exponentially to that of more than 35,000 students. It was conferred the University status in 2001 in recognition of its excellence in academics, research and extracurricular initiatives. Currently, VIT has 4 campuses – in Vellore, Chennai, Amaravati (AP) and Bhopal (MP). VIT has been consistently ranked among the best institutions of the country, and is aspiring to emerge as a global leader. The National Institutional Ranking Framework (NIRF) of the MHRD, Government of India, has identified VIT as the best Private Engineering Institution in India. With students from all the states of India and from more than 50 countries, the cosmopolitan VIT provides an appropriate ambience for holistic learning and comfortable living. Sports, games and cultural activities are an integral part of student life on campus. VIT holds an exemplary placement record by consistently placing more than ninety percentage of the students in good companies. The VIT's international linkages provide ample opportunities for students and faculty to gain global exposure. VIT alumni, spread across the world, are serving the most advanced as well as the most deprived societies.

About School of Electrical Engineering

School of Electrical Engineering (SELECT) has 94 faculty members who have done their UG and PG degrees from the top-notch universities. The School offers B.Tech (Electrical and Electronics Engineering), B.Tech (Electronics and Instrumentation Engineering), M.Tech (Power Electronics and Drives) and M. Tech (Control and Automation), M.S. by Research and Ph.D. in Engineering. B.Tech (Electrical and Electronics Engineering) and B.Tech (Electronics and Instrumentation Engineering), is accredited by the Engineering Accreditation Commission of ABET. All UG & PG programmes of the school are accredited by the Institution of Engineering and Technology (IET), U.K. The placement record of the School has always been impressive. Almost 100% of the students get job from the campus placement and many of them are getting it in core companies every year. The School has state-of-the art laboratories in almost all the areas of Electrical, Electronics and Instrumentation Engineering. Every year, students get scholarships to do their final year projects abroad under the Semester Abroad Program (SAP). Schneider Electric, India and NXP Semiconductors, India, have established Centre of Excellence for students R&D activities under the guidance of faculty members and Industry experts. The School has signed MoUs with many foreign Universities, research organizations and Industries from where students get benefits for their R&D Work / Projects from the MoUs. Achieved 250-300 rank position in QS world ranking.

About SEE, Kyungpook National University

Kyungpook National University (KNU) founded on 1946 is a leading national university in South Korea. The university is one of 10 Flagship Korean National Universities. The School of Electronics Engineering (SEE) is a strategic department that was founded to foster electrical engineers with creativity and global competitiveness. Since 2010, it is a part of College of IT Engineering, Kyungpook National University and has been expanding ever since. Since its inception, SEE has led to the development of Korean electric, semiconductor, and communication industries for 44 years.

About Naresuan University, Thailand

Naresuan University is a government university in Phitsanulok Province, northern Thailand and established as a separate university on 29 July 1990. The School of Renewable Energy and Smart Grid Technology (SGtech) was established in 1995. As an autonomous institute within Naresuan University, SGtech works flexibly to develop renewable energy technologies to meet the energy demands of developing countries in South East Asia and to promote the industrial applications of renewable energy and smart grid. There are several activities in which SGtech has participated are: to offer professional training programs at both master and doctorate's degree level, to research on new approaches of renewable energy generation, to identify feasible areas in Thailand where the renewable energy technologies could effectively be utilized and in smart city development. All of SGtech's activities lead to the energy conservation and the reduction of environmental impacts from the use of fossil fuels, which result in improving and sustaining the life quality.

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Professor and Director of NCBS Lab, School of Electronics Engineering,

Kyungpook National University, Daegu, South Korea.

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Naresuan University, Phitsanulok, Thailand.

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Keynote Speakers

Dr. Kalyana C. Veluvolu, Professor, School of Electronics Engineering, Kyungpook National University, Daegu, South Korea.

Dr. Cosmas Ogbuka, Senior Lecturer, Department of Electrical Engineering, University of Nigeria, Nsukka, Nigeria.

Dr. Yuvaraja Teekaraman, Senior Researcher, Vrije Universiteit Brussel, Faculty of Engineering Sciences, Department ETEC - Electrical Engineering and Energy Technology.

Dr Ramani Kannan, Department of Electrical Engineering, Universiti Teknologi PETRONAS, Malaysia.

Er. S. S. Biswas, Engineer In Charge (R&D), BHAVINI, Kalpakkam, India.

Prof.Dr. Wattanapong Rakwichian, Director of School of Renewable Energy and Smart Grid Technology, Naresuan University, Phitsanulok, Thailand.

Dr. D. MadhanMohan, Scientist, ABB Global Industries and Services Ltd, Chennai, Tamil Nadu, India.

Mr. Kinkar Mandal Superintendent, Demonstration Fuel Reprocessing Plant, IGCAR, India.

About the Virtual Conference

Virtual International Conference on Smart Grid and Green Energy Systems (SGGES'2021) will be a platform for the researchers, academicians as well as professionals from all over the world to present, discuss and promote advances in research and practice in the field of smart grid and renewable energy systems. SGGES'2021 will provide a wonderful opportunity to present your valuable work in a global scientific forum from the convenience of your desktop. As a part of SGGES'2021, many keynote sessions are planned to enhance the research and innovation skills. The keynote sessions will be delivered by eminent professors from academic institutions and renowned industrial experts from India and abroad. No travelling, no hotel expenses, and no time away from the office. The conference runs fully online, from paper submission, including reviewing, conference discussion, keynote sessions and post conference processing. All papers will be referred to double tier approval process, single-blind peer-review and regular plagiarism check. The virtual conference is a smart and affordable mode of presenting the research results in a global platform.

Broad Areas

Nonlinear Control
SCADA Systems
Energy Efficient Control Techniques
Efficient Energy Utilization
Smart Grid & IoT
Soft Computing in Power Systems
Embedded Control of Converters and Drives
Diagnosis and Sensing Systems
Industrial Automation System

Bio-Signal Processing
Electrical Machines and Adjustable Speed Drives
Power Converters and Modeling
Power Quality Issues and Solutions
Green and Renewable Energy Technology
Sensor Fault Detection and Diagnosis
Analytical and Virtual Instrumentation
Robotics and Drones
Modelling and Simulation of Drives

Certification & Publication

Participation and presentation certificates will be issued by the School of Electrical Engineering, VIT, Vellore. All the accepted full papers under category I will be published in Scopus Indexed Proceedings after peer reviewing.

Paper and Poster Submission

Paper Submission for the Virtual Conference can be made by registering through online using the following link. Maximum Number of Pages limited to 8.

<http://info.vit.ac.in/conference/SGGES2021/apply.asp>

Registration Fee

Indian Authors:

Category I : Rs. 500/- per paper (E-Certificate to all the authors in the paper) Additional Charges will be applicable for Scopus indexed Publications.

Category II:Rs.500/- Poster Presentation (E-Certificate and E-Proceedings)

Foreign Delegates:

Category I : \$100 (E-Certificate to all the authors in the paper and Full Paper Publication)

Category II: \$15 Poster Presentation (E-Certificate and E-Proceedings)

Important Dates

Last Date for paper submission: 1st July 2021

Acceptance Notification: 15th July 2021

Conference Date: 30-31 July 2021

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