



School of Electrical Engineering (SELECT)



Vision

To offer an education in electrical engineering that provides strong fundamental knowledge, skills for employability, cross-disciplinary research and creates leaders who provide technological solutions to societal and industry problems.

Mission

- Provide personalized experiential learning in industry sponsored labs to prepare students in electrical engineering with strong critical thinking and employability skills.
- Foster design thinking, creativity and cross-disciplinary research with highly qualified faculty to create innovators and entrepreneurs in the broad area of electrical engineering.
- Collaborate with national and international partners to provide innovative solutions to societal and industry challenges.

Student Achievements

1. Third Place in Indian Drone Racing League SAH Series

Team Rotor_FPV from SELECT bagged 3rd place in Indian Drone Racing League SAH Series Season 3 which was held all over india on Velocidrone Simulator. The team includes Kartikey Nanda, Devvant R. Bhardwaj, Oshi Kumari and Venkata Satvik.



2. Guest Lecture by Wing Commander (IAF)

RoboVITics club organized a Guest Lecture titled “Robotics and Technology Shaping Defence by Wing Commander Ashish Dubey (IAF)

VIT
Vellore Institute of Technology
(Autonomous Institute of Technology under section 3 of ITC Act, 1956)

roboVITics

OFFICE OF STUDENTS' WELFARE

**Robotics And Technology Shaping
Defence**

By
**Wing Commander
Ashish Dubey
(IAF)**

Faculty Coordinator
Prof. Rashmiranjan Das

**15th May, 2021
6:00PM-7:00PM**

Jayendra Dukkipati
8121216000



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Top Publications

April 2021

- 1) Kumar B.P., Pillai D.S., Rajasekar N., Chakkarapani M., Ilango G.S., “Identification and Localization of Array Faults with Optimized Placement of Voltage Sensors in a PV System”, IEEE Transactions on Industrial Electronics, **IF** 7.515.
- 2) Choudhury A., Choudhury A., Subramaniam U., Balamurugan S., “HealthSaver: a neural network-based hospital recommendation system framework on flask webapplication with realtime database and RFID based attendance system”, Journal of Ambient Intelligence and Humanized Computing, **IF** 4.594
- 3) Venkateswarlu S., Janaki M., Thirumalaivasan R., “Analysis and mitigation of SSR in non-identical generators using multimodal BPF based SSDC”, ISA Transactions, **IF** 4.305
- 4) Mathew D., Chinnappa Naidu R., Wang Y., Busawon K., “Single-stage microinverter with current sensorless control for BIPV system”, IET Renewable Power Generation, **IF** 3.894
- 5) Singirikonda S., Obulesu Y.P., “Active cell voltage balancing of Electric vehicle batteries by using an optimized”, Journal of Energy Storage, **IF** 3.762
- 6) Singaravelan A., Kowsalya M., Prasanth Ram J., Gunapriya B., Kim Y., “Application of Two-Phase Simplex Method (TPSM) for an Efficient Home Energy Management System to Reduce Peak Demand and Consumer Consumption Cost”, IEEE Access, **IF** 3.745
- 7) Arunkumar G., Dhanamjayulu C., Padmanaban S., Prusty B.R., Khan B., “Implementation of Optimization-Based PI Controller Tuning for Non-Ideal Differential Boost Inverter”, IEEE Access, **IF** 3.745
- 8) Chacko P.J., Sachidanandam M., “An optimized energy management system for vehicle to vehicle power transfer using micro grid charging station integrated Gridable Electric Vehicles”, Sustainable Energy, Grids and Networks, **IF** 2.532
- 9) Kumar A.N., Raglend I.J., “Multi-objective Control of Multi-Operational Grid-Integrated Inverter for PV Integration and Power Quality Service”, Ain Shams Engineering Journal, **IF** 1.949
- 10) E B., D B., Elumalai V.K., K U., “Data-driven gait analysis for diagnosis and severity rating of Parkinson's disease”, Medical Engineering and Physics, **IF** 1.949
- 11) Nuvvula R., Devaraj E., Srinivasa K.T., “A Comprehensive Assessment of Large-scale Battery Integrated Hybrid Renewable Energy System to Improve Sustainability of a Smart City” Energy Sources, Part A: Recovery, Utilization and Environmental Effects, **IF** 1.184

Top Publications

May 2021

- 1) Balaji E., Brindha D., Elumalai V.K., Vikrama R., “Automatic and non-invasive Parkinson's disease diagnosis and severity rating using LSTM network”, Applied Soft Computing, **IF 5.472**
- 2) Munusamy S., Swaminathan S., Jothi D., Muralidharan V.P.,” A sensitive and selective BINOL based ratiometric fluorescence sensor for the detection of cyanide ions”, RSC Advances, **IF 3.119**.
- 3) Sarojini R.K., Kaliannan P., Teekaraman Y., Nikolovski S., Baghaee H.R.,” An enhanced emulated inertia control for grid-connected pv systems with hess in a weak grid”, Energies, **IF 2.702**.
- 4) Vathanam G.S.O., Kalyanasundaram K., Elavarasan R.M., Hussain S., Subramaniam U., Pugazhendhi R., Ramesh M., Gopalakrishnan R.M., “A review on effective use of daylight harvesting using intelligent lighting control systems for sustainable office buildings in India”, Sustainability (Switzerland), **IF 2.576**.
- 5) Karimulla S., Ravi K., “Solving multi objective power flow problem using enhanced sine cosine algorithm”, Ain Shams Engineering Journal, **IF 1.949**.

Top Publications

June 2021

- 1) Laarabi B., El Baqqal Y., Rajasekar N., Barhdadi A., “Updated review on soiling of solar photovoltaic systems Morocco and India contributions”, *Journal of Cleaner Production*, **IF 9.297**.
- 2) Venugopal K., Panchatcharam P., Chandrasekhar A., “Comprehensive Review on Triboelectric Nanogenerator Based Wrist Pulse Measurement: Sensor”, *ACS Sensors*, **IF 7.711**.
- 3) Shaik N.B., Pedapati S.R., Othman A.R., Bingi K., Dzubir F.A.A., “An intelligent model to predict the life condition of crude oil pipelines using artificial neural networks” *Neural Computing and Applications*, **IF 5.606**.
- 4) Kumar L.A., Indragandhi V., Selvamathi R., Vijayakumar V., Ravi L., Subramaniaswamy V., “Design, power quality analysis, and implementation of smart energy meter using internet of things”, *Computers and Electrical Engineering*, **IF 3.818**.
- 5) Zhuang Z., Yang Z., Zhuang S., Raj A.N.J., Yuan Y., Nersisson R., “Multi-Features-Based Automated Breast Tumor Diagnosis Using Ultrasound Image and Support Vector Machine”, *Computational Intelligence and Neuroscience*, **IF 3.633**.
- 6) Muralikumar K., Ponnambalam P., “Comparison of Fuzzy and ANFIS Controllers for Asymmetrical 31-Level Cascaded Inverter with Super Imposed Carrier PWM Technique”, *IEEE Access*, **IF 3.367**.
- 7) Sanjeevikumar P., Dhanamjayulu C., Khan B., “Artificial Neural Network and Newton Raphson (ANN-NR) algorithm based Selective Harmonic Elimination in Cascaded Multilevel Inverter for PV Applications”, *IEEE Access*, **IF 3.367**.
- 8) Kiran Kumar G., Kobaku T., Sahoo S., Subudhi B., Elangovan D., Blaabjerg F., “An overview of fully integrated switching power converters based on switched-capacitor versus inductive approach and their advanced control aspects”, *Energies*, **IF 3.004**.
- 9) Vasantharaj S., Indragandhi V., Subramaniaswamy V., Teekaraman Y., Kuppusamy R., Nikolovski S., “Efficient control of dc microgrid with hybrid pv—fuel cell and energy storage systems”, *Energies*, **IF 3.004**.
- 10) Muralidhar K., Rajasekar N., “A new design and feasible architecture of DC microgrid for rural electrification”, *International Transactions on Electrical Energy Systems*, **IF 2.860**.
- 11) Vairavasundaram I., Varadarajan V., Pavankumar P.J., Kanagavel R.K., Ravi L., Vairavasundaram S., “A review on small power rating pv inverter topologies and smart pv inverters”, *Electronics (Switzerland)*, **IF 2.397**.

**Editorial
Committee**

**Prof. Joshua Reddipogu, Assistant
Professor Sr.**

