


SriSaiRamEngineeringCollege

DepartmentofElectricalandElectronicsEngineering

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|---|---|
| Name: Dr. G.Venkatesan venkatesan.eee@sairam.edu.in |  |
| Designation: | AssistantProfessor |
| Qualification: | Ph.D |
| AreaofSpecialization: | Power Electronics and Drives |
| Experience: | Teaching-20 Years Research-10 Years |
| DateofJoiningtheInstitution | 15.07.2022 |
| NumberofWorkshops/ FDPAttended: | 5/10 |
| Publication: | Patent: 1 (Filed) Journal: International:16 |
| | Conference: National: 07 |
| General: | To impart, implement and invest the enriched, experienced knowledge in the areas with latest tools and technologies to the future engineers. |
| StaffAchievement | 1.Doctoral committee member for Anna University Research scholars. 2. Board of Studies member for Autonomous College. 3. Acted as International and National Conference Reviewers |
| ResearchInterests | Special Electrical Machines, Power Electronics and Drives |

ACADEMIC QUALIFICATION:

| S. No. | Degree | Year of passing | College | University | Specialization | Class obtained | Full Time/ Part Time |
|--------|--------|-----------------|--|-----------------------------------|--|----------------|----------------------|
| 1. | Ph. D | 2010 | College of Engineering Guindy | Anna University, Chennai | Special Electrical Machines | - | Part time |
| 2. | M.E | 2000 | P.S.G. College of Technology, Coimbatore | Bharathiyar University | Power Electronics & Drives | First class | Full Time |
| 3. | B. E | 1998 | National Engineering college, Kovilpatti | Manonmaniam Sundaranar University | Electrical and Electronics Engineering | First class | Full Time |

TEACHING EXPERIENCE:

| S. No | NAME OF THE POST | EMPLOYER | PERIOD OF EMPLOYMENT |
|-------|-----------------------------|---|--------------------------|
| 1. | Asst. Profesor | Sri Sai Ram Engineering College, Chennai | 15.07.2022 to till date |
| 2. | Professor | Christian College of Engineering and Technology, Oddanchatram | 25.11.2020 to 13.07.2022 |
| 3. | Professor | Karpagam College of Engineering, Coimbatore | 03.07.2017 to 30.06.2020 |
| 4. | Principal | Narasu's Sarathy Institute of Tech, Salem | 27.11.2012 to 25.05.2017 |
| 5. | Professor & HoD | Narasu's Sarathy Institute of Tech, Salem | 01.06.2012 to 26.11.2012 |
| 6. | Asst. Professor | College of Engineering, Guindy, Anna University, Chennai | 29.10.2008 to 28.05.2012 |
| 7. | Lecturer | College of Engineering, Guindy, Anna University, Chennai | 24.02.2005 to 28.10.2008 |
| 8. | Teaching Research Associate | College of Engineering, Guindy, Anna University, Chennai | 08.08.2001 to 23.02.2005 |
| 9. | Lecturer | Sathyabama Engineering college, Chennai | 01.06.2000 to 31.07.2001 |

PATENT:

| Sl.No. | Title | Application number | Date |
|--------|---|--------------------|------------|
| 1. | Shrewd Head gear for sensing fermented individual and halting the vehicle | 201941047106 A | 06/12/2019 |

PROJECT SUBMITTED / SANCTIONED:

| Title of the Project / FDTP | Agency | Role as PI / Co PI | Funding Amount | Date | STATUS |
|--|---|---------------------------|----------------|------------|------------|
| Heuristic Approach for Power Quality optimization in Hybrid Wind and Solar Energy System using Artificial Intelligence | MNRE | Co PI | Rs.34,80,000 | Aug 2022 | Applied |
| Online FDTP on Special Electrical Machines | Anna University | Coordinator | Rs.30,000 | Dec 2021 | Sanctioned |
| Modernisation& Removal of Obsolescence (MODROBS) in Power Electronics and Drives lab | AICTE | Dept. Co-PI | Rs. 13,44,000 | Jan 2020 | Sanctioned |
| Design and Development of Electric Vehicles – A Perspective View | AICTE Training And Learning (ATAL)Academy | Co-ordinator | - | March 2020 | Applied |
| Performance Improvement of Wind Energy Conversion System by using Switched Reluctance Generator Drive | Science and Engineering Research Board | Principal Investigator | Rs. 19,22,000 | June 2018 | Applied |
| Behavioral Study of Electromagnetic and Thermal Analysis of Free Energy Generator | Central Power Research Institute | Principal Investigator | Rs.6,00,000 | March 2018 | Applied |
| Design, Modelling, Analysis and Implementation of Free Energy Generator | Department of Science and Technology | Co Principal Investigator | Rs. 27,00,000 | Dec 2017 | Applied |

NUMBER OF EVENTS CONDUCTED:

| Sl.No. | Title | Duration | | Institution |
|--------|--|------------|------------|---|
| | | From | To | |
| 1. | Online FDTP on Special Electrical Machines | 13.12.2021 | 18.12.2021 | Christian College of Engineering and Technology |

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|----|---|------------|------------|---|
| 2. | 5 days Virtual FDP on Challenges and Innovations in Electrical Engineering system | 06.06.2020 | 13.06.2020 | Karpagam College of Engineering, Coimbatore |
| 3. | Recent topics in Electrical and Electronics Engineering – 12 Webinars | 25.04.2020 | 10.06.2020 | |
| 4. | Modern Industrial Drives – Advancements and Applications | 20.09.2019 | | |
| 5. | Recent trend in Smart Electrical Drives | 20.01.2018 | | |
| 6. | Electrical Machines I | 30.11.2009 | 6.12.2009 | College of Engineering, Guindy. |
| 7. | Solid State Drives | 24.11.2008 | 30.12.2008 | |
| 8. | Modelling and Analysis of Electrical Machines | 09.08.2007 | 11.08.2007 | |

INTERNATIONAL JOURNAL PUBLICATIONS:

| Sl. No. | Title | Name of the Journal | Vol. | Year |
|----------------|---|---|--|-------------|
| 1. | Novel Control Scheme for Z-Source Inverter based Wind Energy Conversion Systems | WAFFEN-UND KOSTUMKUNDE JOURNAL (WoS) | Volume XI, Issue IV, April/2020, Page No:60 -70 | 2020 |
| 2. | Microcontroller based Speed Control of BLDC Motor | Parishodh Journal | Volume IX, Issue III, March/2020, Page 5605-5612 ISSN NO:2347-6648 | 2020 |
| 3. | On shadow length and area for one MW solar PV system | Caribbean Journal of Science | Vol. 53, Issue 2, | 2019 |
| 4. | Static and Transient Thermal Analysis of Power Factor Converters in Switched Reluctance Motor Drive | International Journal of Advanced Research in Dynamical and Control systems | Vol.10, Issue 13, pp 1656-1662 | 2018 |
| 5. | DC Motor modeling based on MATAB SIMSCAPE language. | International Journal of Pure and Applied Mathematics | vol.118, No.20, pp35-41 | 2018 |
| 6. | Smart way to control Home appliances using IOT | International Journal of Pure and Applied Mathematics | Vol.118, pp. 1923-1926 | 2018 |
| 7. | Design and Implementation of Adaptive Jamming Gripper | International Journal of Scientific & Engineering Research | Vol.9, Issue 3, March , pp. 33-36, ISSN:2229 - | 2018 |
| 8. | RSSI based underground coal mine monitoring and tracing system using LABVIEW technique | International Journal of Scientific & Engineering Research | Vol.9, Issue 3, March, pp. 120-126 ISSN:2229 -5518 | 2018 |
| 9. | Aadhar Based Electronic Voting | International Journal of | Vol.9, Issue 3, | 2018 |

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|-----|---|---|--|------|
| | machine | Scientific & Engineering Research | March, 127-130-ISSN:222 9 -5518 | |
| 10. | Real Time measurements of Transient Thermal Analysis for Power Factor Converters in Switched Reluctance Motor Drive | International Journal of Pure and Applied Mathematics | Vol.117, No.16, pp 27-33 | 2017 |
| 11. | Steady State Thermal Analysis of Power Factor Converters in Switched Reluctance Motor Drive | Fronteiras: Journal of social, technological and environmental science. | Vol. 6, No.2, pp 547 -552. | 2017 |
| 12. | Power factor correction for Switched reluctance motor drive | International journal of Electrical engineering and Embedded systems, | Vol 2, no.1 pp 79-83. | 2010 |
| 13. | Power Factor Improvement in Switched Reluctance Motor | Advances in Electrical and computer Engineering Journal | Vol 10, No.1, Pp 59 -63 | 2010 |
| 14. | Occurrence of Harmonics with Inductance machine and Switched reluctance machine – A survey and analysis | Journal of Applied sciences, ANSINET | Vol. 6, No. 9, pp.2123-2127 | 2006 |
| 15. | Modeling and simulation of a Novel Switched reluctance motor drive system with Power factor improvement | American Journal of Applied Sciences | Vol. 3, No. 1, pp. 1649-1654. | 2006 |
| 16. | High Efficiency sequential switching HPWM inverter | WSEAS Transactions on circuits and systems | Vol. 2, No. 2, pp. 321-326 | 2003 |

INTERNATIONAL CONFERENCE PUBLICATIONS:

| Sl. No. | Title | Conference | Month& Year |
|----------------|---|---|---|
| 1. | Automatic intelligent model for Lung tumor detection using medical images | IEEE ICPECTS-2022, Sri Sairam Engineering College, Chennai | 8 th & 9 th December, 2022 |
| 2. | Modified U Net based learning model for semi supervised medical image segmentation | IEEE ICPECTS-2022, Sri Sairam Engineering College, Chennai | 8 th & 9 th December, 2022 |
| 3. | Implementation of Digital Power Factor Controllers for Switched Reluctance Motor Drives | India Council International conference (INDICON-2022), Kochi. | 24 th -26 th November,2022 |
| 4. | Speed control of BLDC motor using microcontroller | ICADEE 2k20, KCE, Coimbatore | 6-7, February 2020. |
| 5. | Optimized control scheme for Z-source inverter based wind source power conversion | ICADEE 2k20, Karpagam College of Engineering, | 6-7, February 2020. |

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| | systems | Coimbatore | |
| 6. | Simulation Analysis of an ON board charger with simultaneous charging of low battery for electric vehicle | ICADEE 2k20, Karpagam College of Engineering, Coimbatore | 6-7, February 2020. |
| 7. | Implementation of Microcontroller based maximum power point tracking controller of photovoltaic module arrays using particle swarm optimization | 5 th International conference on Electrical, Electronics, Instrumentation and computer communication | 24 th and 25 th January 2019 |

REVIEWERS IN INTERNATIONAL JOURNALS

| Sl.No | Journal Name | Year |
|-------|--|------|
| 1. | Hindawi Publications | 2022 |
| 2. | Mathematical Problems in Engineering- Hindawi Publications | 2022 |
| 3. | Journal of Critical Reviews | 2020 |
| 4. | Journal of Engineering Science & Technology | 2018 |

CERTIFICATION COURSES COMPLETED:

| S.No | TITLE | CERTIFIED BY | PERIOD |
|------|-----------------------------------|------------------|-----------------|
| 1. | Electrical Machines | NPTEL | April -May 2021 |
| 2. | Digital manufacturing & Design | Coursera | May 2020 |
| 3. | Introduction to Personal Branding | Coursera | May 2020 |
| 4. | Electric Power systems | Coursera | May 2020 |
| 5. | Natural Gas | Coursera | May 2020 |
| 6. | Safety in the Utility Industry | Coursera | May 2020 |
| 7. | Power Electronics | NPTEL- AICTE FDP | Jul- Oct 2019 |
| 8. | Design of Photovoltaic Systems | NPTEL- AICTE FDP | Jul -Oct 2018 |

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

| Name of the Society | Details of Membership |
|--|--------------------------------------|
| IEEE Membership | 98792884 |
| Indian Society for Technical Education (ISTE) | LM 92774 (Life Membership) |
| International Society for Research and Development (ISRDR) | F3140900716 (Lifetime Membership) |
| Society of Digital Information and Wireless Communications (SDIWC) | 25516 (Lifetime Membership) |
| International Association of Engineers (IAENG) | 194633 |
| Institute for Engineering Research and Publication (IFERP) | |

NATIONAL&INTERNATIONAL FDTP &WORKSHOPSATTENDED:

| Sl. No. | Programme | Duration | | Institution |
|---------|---|------------|------------|---|
| | | From | To | |
| 1. | Power electronics applications to renewable energy systems, electric vehicles and intelligent control | 10.10.2022 | 21.10.2022 | ATAL FDP at Sri Sairam Institute of Technology, Chennai |
| 2. | Product Design engineering using Fusion 360 | 01.08.2022 | 05.08.2022 | Sri Sairam Engineering college, Chennai |
| 3. | Application of Artificial Intelligence and machine learning in Electrical engineering | 27.07.2022 | 28.07.2022 | Sri Sairam Engineering college, Chennai |
| 4. | Multi technology | 28.06.2021 | 03.07.2021 | Dr.N.G.P. Institute of Technology, Coimbatore |
| 5. | FDP on Renewable energy systems | 01-06-2020 | 5-06-2020 | RVS College of Engineering and Technology |
| 6. | Intelligent controllers for Renewable energy systems | 02-06-2020 | 03-6-2020 | P.S.R. Engineering college |
| 7. | Renewable energy technologies, integration to the power grid & e-vehicle | 28-05-2020 | 01-6-2020 | Sri Sairam institute of technology |
| 8. | Virtual Training for Renewable energy systems | 28-05-2020 | 30-5-2020 | S.A Engineering College |
| 9. | Faculty Development Programme on “Research challenges and innovations in renewable energy systems” | 11-05-2020 | 16-5-2020 | Aarupadaiveedu institute of technology |
| 10. | FDP on Electric Vehicle Technology | 06-05-2020 | 09-5-2020 | IEEE - Madras Section |
| 11. | FDP on Technological Advancement in Power System Control, Power Controllers, Drives & E-Vehicles | 27-04-2020 | 01-5-2020 | N.G.P. Institute of Technology, Coimbatore |
| 12. | FDP on Teaching and Learning for Accreditation in Technical Education | 27-04-2020 | 01-5-2020 | NITTTR Chandigarh |
| 13. | FDP on Neural Network and Convolutional Neural Network | 20-4-2020 | 24-4-2020 | NITTTR Chandigarh |
| 14. | Soft computing techniques using MATLAB | 23.01.2020 | | Karpagam College of Engineering, Coimbatore |
| 15. | Industrial Automation using PLC & SCADA | 01.02.2020 | | Karpagam College of Engineering, Coimbatore |
| 16. | Journal writing, IPR and patent drafting | 13.12.2019 | | Karpagam College of Engineering, Coimbatore |

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| 17. | Bloom box- The future Energy in India | 27.09.2018 | 28.09.2018 | Karpagam College of Engineering |
| 18. | Modern trends in Industrial Energy Auditing and Management. | 16.03.2018 | | Karpagam College of Engineering |
| 19. | Development of Renewable Energy sources for Rural Electrification | 09.03.2018 | 10.03.2018 | Karpagam college of engineering |
| 20. | MATLAB/Simulink Based Hands on Training on Power Engineering and Control Topologies | 03.01. 2018 | 05.01.2018 | Karpagam college of engineering |
| 21. | Electric Drives and Challenges of Electric Transportation | 12.12. 2017 | | K.C.G college of technology |
| 22. | Application of MATLAB/Simulink to Electrical Systems | 07.12. 2017 | 09.12.2017 | Bapatla Engineering, Guntur |
| 23. | Digital Power and Motor Control Using C2000 | 21.12. 2017 | 22.12. 017 | KCG College of Technology |
| 24. | Design and Development of feedback controllers for Power Electronics Converters based system | 23.11. 2017 | 25.11.2017 | Karpagam College of Engineering |
| 25. | Fundamentals of Nano Science and Technology | 7.12.2011 | 21.12.2011 | College of Engineering, Guindy |
| 26. | Applied Soft computing | 24.11.2010 | 30.11.2010 | |
| 27. | Power Quality | 1.12.2010 | 7.12.2010 | |
| 28. | Real Time Engineering Simulators | 27.09.2008 | | IIT Chennai |
| 29. | Design of Electrical Apparatus | 19.05.2008 | 25.05.2008 | College of Engineering, Guindy. |
| 30. | RTOS for Real Time Embedded Applications | 01.02.2007 | 02.02.2007 | |
| 31. | Virtual Instrumentation | 24.01.2007 | 25.01.2007 | |
| 32. | Non-Linear Control system | 04.12.2006 | 16.12.2006 | |

PROGRAMMES ACTED AS RESOURCE PERSON:

| Sl. No. | Date | Topic | College | Acted as |
|---------|---------------------------|--|--|-----------------------------|
| 1. | 29.12.2021 and 30.12.2021 | International Conference on Advances in Science, Engineering & Technology (ICASET -2021) | IFERP and Karpagam Institute of Technology, Coimbatore | National Advisory committee |
| 2. | 8.10.2021 and 09.10.2021 | International Conference on Advancements in Electrical, Electronics, Communication, | Kumaraguru College of Technology, Coimbatore | Technical Reviewer |

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|-----|---------------------------|--|--|---|
| | | Computing and Automation (ICAECA-2021) | | |
| 3. | 06.05.2021 and 07.05.2021 | International Conference on Emerging Electrical Systems and Control (ICEESC-21) | Sethu Institute of Technology -Virudhunagar | National Advisory committee |
| 4. | 25.02.2020 | Project Review | Dr. N.G.P Institute of Technology | Academic Expert |
| 5. | 29.07.2019 | Recent trends in power electronics and its applications | Dr. N.G.P Institute of Technology | Guest lecture |
| 6. | 09.03.2018 & 10.03.2018 | Development of Renewable energy sources for rural electrification | Karpagam college of Engineering, Coimbatore | Resource person |
| 7. | 27.02.2018& 28.02.2018 | International Conference on Contemporary topics in Electrical and Electronics Engineering | Karpagam college of Engineering, Coimbatore | Chair Person |
| 8. | 02.01.2018 | Electromechanical Energy conversion and concepts in rotating machines | Narasu's Sarathy institute of technology, Salem | Guest lecture |
| 9. | 25.11.2017 | Design and Development of feedback controllers for Power Electronics Converters based system | Karpagam College of Engineering | Resource person |
| 10. | 17.11.2017 | BoS Meeting | National Engineering College, Kovilpatti | Alumni member |
| 11. | 27.01.2014 | BoS Meeting | National Engineering College, Kovilpatti | Alumni member |
| 12. | 07.03.2013 | 2013 – International conference on computer communications and informatics | Sri Shakthi institute of engineering and technology, Coimbatore | Reviewer for conference paper |
| 13. | 11.05.2012 | BoS Meeting | National Engineering College, Kovilpatti | Alumni member |
| 14. | 13.01.2012 | Electrical Machines -I | Vel tech High tech Dr. Rangarajan Dr. Sakunthala Engg., college, Chennai | Guest lecture |
| 15. | 02.01.2012 | Modern Trends in Electrical Motor Drives | Selvam College of Technology, Namakkal | Chief guest and Resource person |
| 16. | 05.08.2011 | Comparison of special machine performances | Vel tech multi tech Dr. Rangarajan Dr. Sakunthala Engg college, Chennai | Key note address and Paper presentation |

