Dr. SRINIVASAN P, M.E., Ph.D.
Associate Professor - EEE

PROFESSIONAL LINKS

Scopus ID: https://www.scopus.com/authid/detail.uri?authorId=57210228896

ORCID: https://orcid.org/0000-0001-8009-3961

Google Scholar ID: https://scholar.google.com/citations?user=xVEa_W0AAAAJ&hl=en&authuser=1

LinkedIn: https://www.linkedin.com/in/srinivasan-p-7a461369/

Anna University Faculty ID: 320545

AICTE Faculty ID: 1-3798207545

EXPERIENCE

Academic: 13 years
Industry: 6 years

INTERNATIONAL EXPOSURE

- Visited Dubai International Financial Centre (DIFC), Dubai, UAE
  Workshop on GenAI in Finance (Examine practical implementations of Gen AI in leading banks, including personalized financial advice, automated customer support, and advanced fraud detection systems)
- Visited Dubai shipbuilding and Engineering, Mubarak group, Dubai, UAE
  (Experiential learning and engagement program professional training and other initiatives, like ship repair and maintenance services from our locations in Sharjah, Dubai and Fujairah. With all major trades in-house, able to offer vessel repairs throughout the Middle East, from our shipyards and offshore.)
- Birmingham University, Dubai, UAE
  Higher education & Technological advancements program for student's experience, teaching and Learning.
- Participated in the Internship program at Dithari Innovation and Sustainability Centre (DISC) at Sharjah, UAE
  Sustainability, remanufacturing, and reducing, e-waste showcases your dedication to a greener future.

AREA OF SPECIALIZATION

- Power Electronics and Drives
- Solid state Drives
- Electrical Machines - I & II
- Smart Grid

- Electrical Machine Design
- High Voltage Engineering
- Electric Circuit Analysis
- Measurements and Instrumentation
- Renewable Energy systems
- Computer Networking
- Power System Protection

RESEARCH INTEREST

- FRT enhancement capability for DFIG-based wind energy conversion systems
- Non-isolated / Isolated DC-DC Power Converters for RESs and EVs
- Solar PV MPPT Techniques and Solar PV Parameters Estimation
- Charging Infrastructure for EVs
- Battery Management Systems
- Application of Optimization Algorithms in Real-World Electrical Engineering Problems
- Applications of IoT in Electrical Systems.

JOURNAL PUBLICATIONS

- Srinivasan, P., Sankar Ram, N., Sadhasivam, M., Kabilan, D. IoT-Monitored and Controlled Isolated Bipolar DC–DC Converter for Electric Vehicle Battery Charging System. International Energy Journal, 26 (2026). https://doi.org/10.64289/iej.26.0103.9937356.
- Arulvendhan, K., Srinivasan, P., Steven, S. Leveraging Deep Neural Networks to Minimize Misalignment in Wireless Power Transfer Coils for EV Charging. International Review of Applied Sciences and Engineering, (2026). https://doi.org/10.1556/1848.2026.01160.
- Arulvendhan, K., Srinivasan, P. Interleaved Resonant DC–DC with NPC Inverter and MSVPWM Control for Advanced EV Wireless Charging. Engineering Research Express, 8 (2026). https://doi.org/10.1088/2631-8695/ae4944.
- Margaret Amutha, W., Srinivasan, P. Hybrid Falcon Optimization Algorithm-PID Controller Based Wind Powered Improved Bridgeless CUK Converter for Telecom Applications. Arabian Journal of Science and Engineering, (April 2025). https://doi.org/10.1007/s13369-025-10155-4.
- Srinivasan Purushothaman, Rampriya Boomi Perumal, Shabarish Elango, Hanitha Premananth, Krishnamsetti Yoganand, Smart Home Powered by Solar: IoT-based SEPIC Converter Control, Recent Advances in Electrical & Electronic Engineering; Volume 18, Issue 7, pp 1011-1026, Year 2025. DOI: 10.2174/0123520965295293240418053531
- Srinivasan P., Kannan K. An IoT-enabled device for remotely monitoring and controlling solar photovoltaic systems. EAI Endorsed Scalable Information System, 2025 Mar 21, 12(1). https://doi.org/10.4108/eetsis.5612.
- Srinivasan Purushothaman, S. Heeravathi, K. Arulvendhan, M. Gohul, G. Saravanan, Coating Performance Prediction using a Modified Spin Coater and the Taguchi Technique for Solar Cells, Recent Advances in Electrical & Electronic Engineering; Volume 18, Issue 1, Year 2025, DOI: 10.2174/0123520965267900231127100341.
- Jeya Shree Thulasidas, Srinivasan Purushothaman, Srivatsen Ravishanker,

Thejaswaroopan Mourougaiyan, Arruthra Anilkumar, “Low cost pulsed electric field generator using DC- DC boost converter and capacitor diode voltage multiplier”, International Journal of Applied Power Engineering, Vol.13, No.4, December 2024, pp.874-885, DOI:10.11591/ijape.v13.i4.

- P. Srinivasan*, S. Heeravathi, M. Jay Prasanna, R. Pillai Sreedharsh and M. Dhanush, “Soft Switching Technique in a Modified SEPIC Converter with MPPT using Cuckoo Search Algorithm”, Recent Advances in Electrical & Electronic Engineering 2024; volume 17, Issue 9, pp. 896-907. https://dx.doi.org/10.2174/0123520965263412231031060225.
- Srinivasan P, M. Krishna K, R. M, and N. Joseph, “Switched capacitor voltage boost converter for BLDC motor speed control of electric vehicles”, EAI Endorsed Trans Energy Web, vol. 11, Jul.2024, https://doi.org/10.4108/ew.6036.
- Purushothaman Srinivasan*, Samiappan Dhandapani, Kamalkannan Muralikrishna, Joseph Nissy and Murugavel Roshan, LVRT Enhancement of DFIG-based WECS using SVPWM-based Inverter Control, Recent Advances in Electrical & Electronic Engineering, volume 17, issue 4, pages 345- 357, year 2024, ISSN2352-0965/2352-0973.
- P. Srinivasan and K. Arulvendhan, “An Enhanced Low Voltage Ride-Through Control Scheme for DFIG-Based Grid-Integrated Wind Energy Conversion Systems: Environmental Impact Analysis,” FMDB Transactions on Sustainable Environmental Sciences., vol. 1, no. 3, pp. 161–172, 2024. https://doi.org/10.69888/FTSESS.2024.000302.
- K. A. Babu, K. Arulvendhan, P. Srinivasan, M. A. Ahmad, A. Prabha, M. M. Thariq, M. M. S. Ali, and C. C. Angelin, “Economical Infotainment Solution Augmented with Advanced Telematics for Collision Detection, Vehicle Localization, and Real-time Health Status Monitoring,” AVE Trends In Intelligent Health Letters, vol. 1, no. 4, pp. 206 –216, 2024.
- Arulvendhan, P Srinivasan*, K Muralikrishna, Joseph Nissy and M Roshan, Bidirectional DC-DC Converter and Improved Electrical Vehicle Dynamic Response Control, Recent Advances in Electrical & Electronic Engineering, volume 17, issue 5, pages 444-455, year 2024, ISSN 2352- 0965/2352-0973. doi 10.2174/2352096516666230808155657.
- S. Heeravathi, Srinivasan P*, Muralikrishna. K, Rahul Lohkana and KumariNihal, “ZnO antireflection Coating on solar cell to increase the efficiency by enhancing optical properties.” ARPN Journal of Engineering and Applied Sciences, vol. 18, n0. 2, January 2023, 1819-6608, pp- 75-79. https://doi.org/10.59018/012323
- Srinivasan P, Dilli Srinivasan J, Arulvendhan K, Muralikrishna K, NaveengandhiS,“An improved control strategy of low voltage ride through enhancement capability for DFIG based wind turbine: A review”, Journal of Xi’an Shiyou University, Natural Science Edition, ISSN: 1673-064X, volume 18 issue 3, pp 310-321, 2022
- Srinivasan, P, Samiappan D, “Combination of SMES and fault current limiter for doubly fed induction generator to enhance LVRT capability”, ARPN Journal of Engineering andApplied Sciences, ISSN: 1819-6608, Volume 15(17), pp. 1891–1896, 2020.
- M. Anjalakshi, S. Pavithra, M.Moovendan, Srinivasan P, “A Research on Non conventional and Renewable sources”, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-2s8, pp: 1591-1593, August 2019.

- Srinivasan P, DhandapaniSamiappan, “Enhancement of Low Voltage Ride through Capability for DFIG Based Wind Turbine with STFCL, DVR and Energy Storage System”, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-2, pp: 2882-2886, July 2019.
- Priya Mishra, KarthigaPandi, P. Srinivasan, M. Moovendan, “Electric Bikes Over Fuel Bikes with the Help of ANFIS Model in India”,International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue-1S4, June 2019.
- Srinivasan P, Dhandapani Samiappan, “LVRT Enhancement Capability of DFIG based WECS by Implementing STFCL-SMES”, International Journal of Pure and Applied Mathematics,2018, Vol. 119(16): 3495-3500, ISSN: 1311-8080.
- Srinivasan P, Dhandapani Samiappan, “Modeling and simulation of HVRT and LVRT enhancement capability for doubly fed induction generator-based wind energy conversion system”, International journal of Engineering & Technology, UAE, 2018, Vol.7 (2.33): 405- 408, ISSN: 2227-524X.
- Srinivasan P, Dhandapani Samiappan, “Improvement of LVRT capability by combining– Switch type fault current limiter and Super capacitor for DFIG based wind turbines”, IIOABJ, 2017, Vol.8 (Suppl 3): 53-59, ISSN: 0976-3104

CONFERENCE PROCEDINGS

- Published paper in international conference on recent advances in Electrical, electronics, ubiquitous communication and computational intelligence, titled “Performance Evaluation of a Hysteresis-Controlled Smart Grid System Using a Flying Capacitor Boost Converter”, organized by the Department of Electronics and communication Engineering, SRM institute of science and technology, kattankulathur, India during 17th and 18th April 2024.
- Published paper in international conference on Smart energy and advancement in power technologies titled “Power generation for street lights using Smart Tiles, Floor & Piezoelectric Shoes for mobile battery charging along with GPS tracker shoes”, organized by the Department of Electrical Engineering, in National Institute of Technology Jamshedpur, Jharkhand, India during 6th –8thSeptember 2021.
- P. Srinivasan, D. Sivakumar, P. Rayavel, M. Mohammed Ishaq, A. Arumuga Nainar, and K. Saravanan (2020), “Design and Implementation of Three-Phase SEPIC-Based Photovoltaic System”, Proc .6th international conference on intelligent computing and applications, Advances in Intelligent Systems and Computing, Volume 1369, ISSN 2194-5357, pp 577-592.
- Presented paper in International conference on challenges and opportunities in renewable energy, smart systems and e-mobility (ICCORSE-2022), titled “An improved control strategy of low voltage ride through enhancement capability for DFIG based wind turbine: A Review”, organized by the Department of Electrical Engineering, Easwari engineering college, Ramapuram, India during 7th –8thOctober 2022.
- Presented paper in International conference on Innovation and Research in Marine Electrical & Electronics Engineering, ICIRMEEE 2018 titled “The Coordination control of Voltage and Reactive power between SVC and DFIG after LVRT”, on 27th and 28th September 2018 at AMET Academy of Maritime Education and Training.
- Presented a Paper in Joint International Conference on Intelligent Computing and Applications and Power, Circuit and Information Technologies “Modelling and

Simulation of HVRT and LVRT Enhancement capability for DFIG based wind Energy conversion systems", at Velammal Engineering college on 2-3 February 2018.

- Published paper in international conference in Smart structures and systems titled "LVRT Enhancement Capability of DFIG based WECS using PI Controller", on 28th March 2018 at Saveetha engineering college.
- Presented a Paper in International Conference on International Conclave on Renewable Energy Systems & Technology-ICREST 16"An Improved Wind Energy conversion system Enhancement of Energy Scavenging Capability for Low Cut in Speeds", at Saveetha University during 06-08 April 2016.
- Presented a Paper in International Conference on "A Novel Wind Turbine system using NPC Topology-BBC by Open Switch Fault Detection method", on Applied Theoretical science and Technology, at Hotel Radha Regent on 19 April 2016.
- Presented a Paper in Second International Conference on "Implementation SCADA system for Industrial environment using IEEE C37.1 standards", Human Computer Interactions (ICHCI 16) at Saveetha University on 10& 11 March 2016.
- Presented a Paper in International Conference on Emerging Trends in Engineering Technology- ICETET 2015 titled "Hybrid Active Filters performance for Renewable power generation systems" conducted by Nehru Institute of Engineering & Technology on 27 March 2015.
- Presented a Paper in National Conference on Recent trends in Engineering & Technology (NCRTET-2014) titled "Improvement of Stability & Dynamic performance of DFIG based wind power generator by Superconducting Magnetic Energy Storage system" conducted by St. Joseph Institute of Technology, on5thApril 2014.
- Presented a Paper in Second National Conference on Recent Trends In Electrical Engineering (RTEE-12) titled "Design and Implementation of Direct AC-AC Converters using Switching Modules Applied to Voltage Restorers" conducted by Gojan School of Business and Technology, Chennai during 3rd March 2012.
- Presented a Paper in National Conference on Recent Trends In Electrical Engineering (NCRTEEE-12) titled "Design and Implementation of Direct AC-AC Converters using Switching Modules Applied to Voltage Restorers" conducted by P.B. College of Engineering, Chennai during 2nd March 2012
- Presented a Paper inInternational Conference on Smart structures and systemstitled "Enhanced Power Harvesting for Wind Energy Conversion System with Low Cut-in Speed" conducted by Saveetha Engineering college, Chennai during 5nd March 2012

PATENT PUBLISHED

- Machine Learning–Driven Adaptive Energy Optimization Architecture for Enhancing Electric Vehicle Battery Longevity and Driving Efficiency, Patent Number: 202541123934 A, Date of Filing of Application: 09/12/2025, Publication Date: 02/01/2026.
- IoT-based Energy Management System for Automated Home Automation, Patent Number: 202421083973, Date of filing of Application: 04/11/2024, Publication Date: 29/11/2024.
- Rigged aerodynamic diffuser blades mixed flow pump for flow resistance control, Patent Number: 202321056922A - 290, Date of filing of Application: 24/08/2023, Publication Date: 08/12/2023
- Supervisory Control Monitoring and Data Acquisition for Remote Industry using Arduino, Patent Number: 202241074372 A, Date of filing of Application

:21/12/2022, Publication Date: 30/12/2022

COURSES CERTIFIED

- Accreditation and Outcome Based Learning, NPTEL Online Course, October 2025, Indian Institute of Technology, Kharagpur.
- Teaching And Learning in Engineering, NPTEL Online Course, January 2024, Indian institute of science, Bangalore.
- Ethics in Engineering Practice, NPTEL Online Course, October 2024, Indian Institute of Technology, Kharagpur.
- Body Language: Key to Professional Success, NPTEL Online Course, September 2023, Institute of Technology, Roorkee.
- Cloud computing, NPTEL Online Course, October 2022, Indian Institute of Technology, Kharagpur.
- Computer networks and internet protocol, NPTEL Online Course, May 2022, Indian Institute of Technology, Kharagpur.
- Wind Energy, Technical university of Denmark an online non-credit course authorized by Technical University of Denmark (DTU) and offered through Coursera.
- Introduction to industry 4.0 and industrial internet of things, NPTEL Online Course, November 2021, Indian Institute of Technology, Madras.
- Introduction to internet of things, NPTEL Online Course, October 2019, Indian Institute of Technology, Kharagpur, Madras.
- Facts Devices, NPTEL Online Course, October 2018, Indian Institute of Technology, Kharagpur, Madras.

EVENTS ORGANIZES

- Organised Second International Conference, 'Emerging Trends in Electrical Machines, Power and Energy Systems', (EMPOWER 2025) on 25 Feb 2025 SRM institute of science and Technology, Ramapuram.
- Organized technical symposium on 21st September 2023 (VERSIO'23) and 28th September 2022 (VERSIO'22) consisting of both technical and non-technical events presents with itself a plethora of opportunities for students to sharpen their acumen with various events.
- Core teaching on "Power system studies in Smart grid" from Department of Electrical and Electronics Engineering, SRM Institute of Science and Technology, Ramapuram on 15th March 2023.
- Organized Two days' workshop on MATLAB for Beginners from Department of Electrical and Electronics Engineering, SRM Institute of Science and Technology, Ramapuram on 2ndNovember 2022.
- Seminar on "Introduction to IoT and installation of Off grid roof top solar PV systems" from Department of Electrical and Electronics Engineering, SRM Institute of Science and Technology, Ramapuram on 2nd July 2021.
- Seminar on "RRB Guidance for Diploma holders" from Department of Electrical and Electronics Engineering, SRM Institute of Science and Technology, Ramapuram on 2nd June 2021.
- Workshop on "ARDUINO programming using TINKERCAD", from Department of Electrical and Electronics Engineering, SRM Institute of Science and Technology, Ramapuram on 8thApril 2021.
- "Online workshop on virtual conduct of Electric Drives lab", from Department of Electrical and Electronics Engineering, SRM Institute of Science and Technology, Ramapuram on 2ndAugust 2020.

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED

- AICTE Training and Learning (ATAL) Academy Faculty Development Program on Opportunities and challenges of Electric vehicles in India at EASWARI ENGINEERING COLLEGE from 26/08/2024 to 31/08/2024.
- ICT Academy, one week Faculty Development Program on Internet of Things conducted by ICT Academy on 27 Aug 2024 to 31 Aug 2024 at SRM Institute of Science and Technology, Ramapuram Campus.
- AICTE Training and Learning (ATAL) Academy Blended/Hybrid FDP on "Integration of Renewable Energy Technology for Smart Ships and Hands-on Training in Solar System Design Using Simulation Software" from 31.10.2022 - 05.11.2022 to 07.11.2022 - 11.11.2022 at academy of maritime education and training deemed to be University.
- Institute of Engineers, Faculty Development Program on "Current trends in digital technologies", from 14th march 2022 to 21st march 2022.
- Department of science and Technology conducts Faculty Development Programme on "Online technology-based Entrepreneurship development program (TEDP)", organized by SRM institute of science and technology, Ramapuram, chennai from 29th December 21 to 11th February 2022.
- All India council for technical education conducts Faculty Development Programme on "Power electronics converters and controllers for EV and smart grid", organized by IITDM kancheepuram at chennai from 18th December to 22ndDecember 2019.
- NPTEL-AICTE, Faculty Development Programme for the course on "Introduction to Internet of Things", with duration of 12 weeks from July-Oct 2019.
- Indian Statistical Institute conducts, Faculty Development Programme for the course on "Computer science and Business systems", organized by TCS Geetanjali park at Kolkata on 15-17 July 2019.
- One day National Seminar on "Electric and Hybrid Electric Vehicle", organized by the Department of Electrical and Electronics engineering on 30th March 2019 at AMET Academy of Maritime Education and Training.
- One day Hands-on training programme on "Design and Installation of Solar PV systems",organized by the centre for renewable energy research on 21st January 2019 at Eswari engineering college.
- National Workshop on "Effective writing of Engineering Journal paper and Thesis", conducted during 16-17 March, 2017 at SRM University, Kattankulathur.
- One day Workshop on "Measurement and Control systems using LABVIEW", organized by the Department of EEE, SRM University, Ramapuram on 12.01.2017.
- Two days' workshop on "Software Tools for Design & Controlling of Special Electrical Machines", on 12-13 August 2016 at SRM University, Kattankulathur.
- Workshop on "Neural Network Fuzzy Logic and its Application to the Engineering Problems", organized by IEEE Computational intelligent society at SRM University on 26th March 2016.
- Two-Week ISTE Workshop on "Control Systems", Conducted by Indain Institute of technology Kharagpur from 2-12 December 2014 at Saveetha Engineering college.
- Two days ISTE e-Seminar on "Steps 2 Research", organized by Department of Computer Applications, Amal Jyothi college of Engineering on 19-20 September 2014.
- ISTE-PTU-Faculty Development Programme on "Application of Soft Computing Methodologies for Innovations in Electricity Markets", organized by Department of EEE, SRM University, Ramapuram on 23-27 June 2014.

- Workshop on "Online Monitoring Systems for wind &Solar application using LABVIEW" at SRM University, Ramapuram on 19thMarch 2014.
- DST sponsored National Seminar on "Hybrid Renewable Energy system" at Saveetha Engineering college, Chennai on 19thto 21st February 2014.
- National level Workshop on "Design, Analysis and Operation of Power Systems" at Easwari Engineering college, Ramapuram on 21st October 2013.
- National Technical Workshop on "Robotics" at SRM University, Ramapuram on 23rd August 2012.
- Workshop on "MATLAB Programming and Applications" at Kongu Engineering college, Perundurai on 20th& 21st July 2012.

ACHIEVEMENTS AND AWARDS

- Keynote speakers, managed Q&A sessions, and ensured smooth execution of the session schedule for international conference, 'Emerging Trends in Electrical Machines, Power and Energy Systems', (EMPOWER 2025) on 25 Feb 2025 at SRM institute of science and Technology, Ramapuram.
- Keynote speakers, managed Q&A sessions, and ensured smooth execution of the session schedule for national conference, 'National Conference on Recent Trends in Energy Applications' at Adhiparasakthi Engineering college on 30/11/2022.
- Organized – 1 International Conferences, 2 Symposium, 3 Workshops and 2 Seminars.
- Resource Person in 1 workshop and 1 seminars conducted by various Academic Institutions.

PROFESSIONAL MEMBERSHIP

- International Association of Engineers (IAENG), Member Id: 207986, 2019
- International Society for Research and Development (ISRD), Member Id: M4150905080, 2018
- International Society for Development and Sustainability (ISDS), Member Id: M007405, 2018
- The Society of Digital Information and Wireless Communications (SDIWC), Member Id: 25113, 2019.
- Teaching and Education Research Association (TERA), Member Id: TERA-M19101127, 2019
- Institute For Engineering Research and Publication, (IFERP), Member Id: PM24865391, 2020

INDUSTRIAL EXPERIENCE

- Worked as Senior Electrical engineer in **Larsen & Toubro Ltd** at ECC Division from Sep 2003 - May 2009

ROLES AND RESPONSIBILITIES

- Installation of meter boxes, earth rods, distribution boards, Industrial wiring and connecting of service mains.
- Overall control of Daily work activities involved laying of HT & LT cables, installation of transformer LT Panels, Oil Switch & maintenance work, Scheduling the work for cable laying & shunt down, Supervision of work, completing the work in the stipulated time, installation of distribution

transformer, Ring main unit, Oil switch LV panes, Metering box

- Installation of transformer structures, Pole mounted transformer, 11KV lightning arrestors, earth marts and installation of feeder pillars.
- Testing of various Electrical installation and equipment (Earth rod Resistance testing and testing Industrial installations).
- Faults diagnosis and rectification on Medium and High voltage networks.
- Operation of medium and high voltage switchgear up to 33KV.
- Construction of both High and Medium voltage Power lines.
- Installation of submersible pumps, induction motors and wiring of starters panels such as star- delta, direct-on-line and transformer auto starter and as well as trouble shooting.
- Designing of various Electrical schematic drawings, panel layout and control systems for production.