

Dr. R. ILANGO

Professor

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Educational Qualification :

2016 - Ph.D., in Power systems, Anna University Chennai – Title of the thesis: “A comprehensive study of the impact analysis of FACTS devices on relay protection and its mitigation”.

2002 - M.Tech., in High Voltage Engineering (‘I’ class with Distinction), at SASTRA University, Thanjour, Tamil Nadu.

1996- B.E., in Electrical and Electronics Engineering (‘I’ class), at REC Trichy (Presently NIT Trichy), Bharathidasan University Thiruchirappalli.

Area of interest:

Power Systems, High Voltage Engineering, Power System Protection, FACTS, Renewable Energy, Power Quality & EV Drives.

Experience:

Total Teaching Experience in Engineering College: **19 years.**

Total Teaching Experience in Polytechnic College: **1.9 years**

Total Experience in Industry: **8 years.**

Apprentice Trainee: **1year (TNEB)**

List of Publications:

Publication in International Journal: (25)

1. R.Saranraj, **Dr.R.ilango**, P.Parthasarathy, P.Vigneshwaran (**2021**) ‘Battery Powered by the System using Multilevel Inverter at 5 level to Maximize the Efficiency’, **Turkish Journal of Computer and Mathematical Education**, e-ISSN no. 1309-4653, vol. :12,Issue, 7 , pp.1880-1885. (**Scopus**)

2. **Dr.R.Ilango**, V. Ashokkumar, C.B. Venkatramanan (2020) 'Power Quality Impacts and its Mitigation in Grid-tied Photo Voltaic Power Generation' **Bioscience Biotechnology Research Communications (BBRC)**, ISSN no. 0974-6455, Vol:13, Issue 2, pp. 85-89, (Web of Science)
3. **Dr. R.Ilango**, T.Santhoshkumar, S.Sathieshkumar (2020) 'Load Flow & Transient Stability Analysis for IEEE 5 Bus System Using UPFC' **International Journal of Scientific & Technology Research (IJSTR)**, ISSN no. 2277-8616, Vol:9, Issue 4, pp.1349-1352 (Scopus)
4. **Dr. R.Ilango**, Dr.S.Titus, G.Gabriel Santhosh Kumar. (2020) 'High Voltage Dc Generator For Insulation Testing Using Step Up Converter And Voltage Multiplier' **International Journal of Scientific & Technology Research (IJSTR)**, ISSN: 2277-8616, Vol :9 Issue 4, pp.1270-1274. (Scopus)
5. Dr.S.Titus, G.Gabriel Santhosh Kumar, **Dr. R.Ilango** (2020) 'Modeling and Simulation of Bidirectional Converter for Solar Powered Refrigeration System' **International Journal of Scientific & Technology Research (IJSTR)**, ISSN: 2277-8616, Vol :9 Issue 3, pp. 3653-3658. (Scopus)
6. Sangeetha E.P, R.Chandra Prabha , **Dr.R.Ilango** (2019) 'Design & Analysis of Efficient Battery Charging / Discharging for Electrical Vehicle', **International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJIREEICE)**, ISSN no.2321-0181. Vol:7, Issue 6, pp.5-9. (Google scholar).
7. **Ilango.R**, Ashokkumar.V, Gabriel Santhosh Kumar.G (2019) 'FPGA and Fuzzy based Speed Control Technique for Three Phase Induction Motor', **International Journal of Engineering Research & Technology (IJERT)**, ISSN no.2278-0181. Vol:8, Issue 6, pp. 299-304. (Google scholar).
8. **Ilango.R**, Ashokkumar.V, Gabriel Santhosh Kumar.G (2019) 'Analysis of PV Powered BLDC Drive using SMC Control Technique', **International Journal of Research and Innovation in Applied Science (IJRIAS)**, ISSN no.2454-6194. Vol:4, Issue 6, pp. 30-35. (Google scholar).
9. Gabriel Santhosh Kumar.G, Keerthiga. P.C, **Ilango.R**, Pandeewari. C (2019) 'Design and Analysis of Series Connected H-Bridge Multilevel DC/AC Converter for Enhancing Attributes of Power', **International Journal of Engineering Research & Technology (IJERT)** ISSN no.2278-0181. Vol:8, Issue:6, pp.550-554, (Google scholar).

10. Sathish.R, **Ilango. R (2019)** ‘Induction Motor Control using SVPWM Quasi Z Source Current fed Inverter’, **International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJREEICE)**, ISSN no.2321-2004. Vol:7, Issue 5, pp.81-84. (**Google scholar**).
11. **Ilango. R (2017)** ‘Fault Location Algorithm using impedance compensation method (ICM) for FACTS Devices compensated transmission lines’, **Journal of Electrical Engineering**, ISSN no. 1582-4594, vol.17, Issue 03, pp. 311-317 (**Sl. No. 2159, Annexure-I, version 2016.2**) (**Google scholar**).
12. Purushothaman. G, **Ilango. R**, Karthika. N, Ajith. A (**2017**) ‘Innovative Method to Secure ECG Signal using ECC in Wireless Communication’, **International Journal for Modern Trends in Science and Technology**, ISSN no.2455-3778, vol.03, Issue 05, pp. 99-103. <http://www.ijmst.com>
13. **Ilango. R**, Sree Renga Raja. T (**2016**) ‘Fault Location Method for STATCOM Connected Transmission Lines using CCM’, **Circuits and Systems**, ISSN no. 2153-1293, vol. 7, no 10, pp. 3131-3141. (**Sl. No. 2159, updated list of journals, version 2016.2**) (**Google scholar**). <https://doi.org/10.4236/cs.2016.710266>
14. **Ilango. R**, Venkatesa Vimal Chand. M.R.V (**2015**) ‘Selective Harmonic Elimination-PWM Technique in a Single Phase Hybrid Cascaded Multilevel Inverter using Bee Algorithm’, **International Journal of Innovative Research in Engineering Science and Technology**, ISSN no. 2320 – 981X, vol. 3, Issue 04, pp. 13-18.
15. **Ilango. R**, Sree Renga Raja. T (**2015**) ‘Impact Analysis of DSSC on the Performance of Distance Relay Protection under Fault Conditions’, **Indian Journal of Science and Technology**, ISSN no. 0974-5645, vol.8, no.33, pp.1-6. (**Annexure-II, Sl.No.8167, version 2014.2**). (**Google scholar, Web of Science & Scopes Indexed**) **DOI: 10.17485/ijst/2015/v8i33/55401**
16. Lilly Renuka. R, **Ilango. R**, Muruganandam. B (**2015**) ‘Power Quality Enhancement Using VSI Based STATCOM for SEIG Feeding Non Linear Loads’, **International Journal of Engineering and Applied Sciences**, ISSN no. 2394-3661, vol.2, no. 5 pp. 45-50.(**Google scholar**)
17. Navaneethan. R, **Ilango. R**, Prabakaran.V (**2015**) ‘Design and control for Bidirectional AC-DC Converters for Plug-in Hybrid Electric Vehicle’, **International Journal of Engineering and Applied Sciences**, ISSN no. 2394-3661, vol. 2, no. 5, pp. 5-9.
18. Jayashankar.C, **Ilango.R**, Prabakaran.V (**2015**) ‘Single Phase Dynamic Voltage Restorer for Abnormal Conditions’, **International Journal of Engineering and Applied Sciences**, ISSN no. 2394-3661, vol.2, no.4, pp. 97-101. (**Google scholar**)

19. Silvin Daniel, **Ilango.R**, Prabaharan.V (2015) ‘Power Quality Improvement for Non Linear Load by Using DSTATCOM’, **International Journal of Engineering and Applied Sciences**, ISSN no. 2394-3661, vol.2, no.4, pp.102-106. (Google scholar)
20. **Ilango. R**, Sree Renga Raja. T (2015) ‘Impact Analysis of D-STATCOM on the Performance of Distribution Relay Protection’, **International Journal of Applied Engineering Research**, ISSN no.0973-4562, vol. 10, no. 5, pp. 12939-12950. (Annexure-II, Sl. No.8565, version 2014.2).
21. **Ilango. R**, Sree Renga Raja. T (2015) ‘Impact Analysis of midpoint Connected STATCOM on Distance Relay Performance’, **TELKOMNIKA Indonesian Journal of Electrical Engineering**, ISSN no. 2302-4046, vol. 13, no 2, pp. 257-263. (Annexure-II, Sl. No.19378, version 2014.2), (Googlescholar). DOI: <http://dx.doi.org/10.11591/telkomnika.v13i2.6987>
22. Venkatesa Vimal Chand. M.R.V, **Ilango. R** (2014) ‘DTC VSI Fed Induction Motor Drive By Using Near State PWM Method With Reduced Common Mode Voltage’, **International Journal of Innovative Research in Engineering Science and Technology**, ISSN no. 2320 – 981X , vol. 2 no. 01, pp. 73-78.
23. **Ilango. R**, Sree Renga Raja.T (2014) ‘Accurate Distance Protection Scheme for Transmission Line Fault Location Considering the Impact of Shunt Connected STATCOM’, **Middle-East Journal of Scientific Research**, ISSN no. 1990-9233, vol. 21, no 11, pp. 2123-2129. (Annexure -II, Sl. No. 14378, version 2014.2), (Google scholar). <http://dx.doi.org/10.5829/idosi.mejsr.2014.21.11.21806>.
24. Karthik. S, Jegan. C, **Ilango. R** (2014) ‘Design of Single Input Multiple Output DC-DC Converter’ **International Journal of Engineering and Management Research**, ISSN No. 2250-0758, vol. 4, no. 02. pp. 22-28. (Google scholar)
25. Angayarkanni. S, Senthilnathan. A, **Ilango. R** (2013) ‘SVPWM Controlled Permanent Magnet Synchronous Motor’, **International Journal of Innovative Technology and Research** ,vol.1, no. 1, pp. 042-045. (Google scholar)

Publication in International Conferences: (14)

1. **Ilango.R**, “AI based ATM security System using IOT”, ‘Proceedings of the **Third International Conference on Power Initiatives (ICPI-2021)**’, during 29th & 30th March 2021 at K. Ramakrishnan College of Engineering, Trichy.
2. **Ilango.R**, “Predefined Masala Unit”, ‘Proceedings of the **Third International Conference on Power Initiatives (ICPI-2021)**’, during 29th & 30th March 2021 at K. Ramakrishnan College of Engineering, Trichy.

3. **Ilango.R**, “Power Quality Analysis in Grid Connected PV System”, ‘Proceedings of the **Third International Conference on Innovations in Engineering, Technology and Science (ICIETS2019)**’, during 21st & 22nd March 2019 at K. Ramakrishnan College of Engineering, Trichy.
4. **Ilango.R**, “Induction Motor Control using SVPWM Quasi Z Source Current Fed Inverter”, ‘Proceedings of **Third International Conference on Innovations in Engineering, Technology and Science (ICIETS2019)**’, during 21st & 22nd March 2019 at K. Ramakrishnan College of Engineering, Trichy.
5. **Ilango.R**, “Generating Electricity from Humans in Fitness Centre”, ‘Proceedings of the **Third International Conference on Innovations in Engineering, Technology and Science (ICIETS2019)**’, during 21st & 22nd March 2019 at K. Ramakrishnan College of Engineering, Trichy.
6. **Ilango.R**, ‘Design and Analysis of PV Powered PMSM Drive using SMC Control Technique’, **Presented in the International Conference on Innovative Engineering Initiatives’(ICIEI-2019)**, held during 13th &14th March 2019, at SRM TRP Engineering College, Tiruchirappalli, TamiNadu.
7. **Ilango.R**, ‘A Novel Grid Support Topology Using Nine Switch Converter for Off Shore Connected Wind Forms’, ‘**Presented in the International Conference on Newer Engineering Concepts & Technology-2K18**’, (**ICONNECT2K18**), organized by K. Ramakrishnan College of Technology, Trichy, during March 23th and 24th ,2018.
8. **Ilango.R**, ‘A Novel Topology Using CUK Converter in PV Micro Converter with Transformer Less Injection’, ‘**Presented in the International Conference on Newer Engineering Concepts & Technology-2K18**’, (**ICONNECT2K18**), organized by K. Ramakrishnan College of Technology, Trichy, during March 23th and 24th ,2018.
9. **Ilango.R**, ‘Power Quality Improvement in Low Voltage Distribution System using STATCOM based voltage regulator’, ‘**Presented in the International Conference on Modern trends in Engineering &Research**’ (**ICMTER-2018**), organized by Vins Christian Women’s College of Engineering, Nagercoil during March 15th and 16th ,2018.
10. **Ilango.R**, ‘Wind Energy Conversion System using Solid State Transformer,’ ‘**Presented in the International Conference on Modern trends in Engineering &Research**’ (**ICMTER-2018**), organized by Vins Christian Women’s College of Engineering, Nagercoil during March 15th and 16th ,2018.

11. **Iango.R**, 'Adaptive Distance Protection for STATCOM Compensated line using Impedance Compensation', '**Presented in the AICTE Sponsored 3rd International Conference on Innovations in Power Electronics Control and Systems' (IPECS-2017)**, held at M.A.M. College of Engineering , Tiruchirappalli, during 18th to 19th Dec 2017.
12. **Iango.R**, 'Innovative Method to Secure ECG Signal using ECC in Wireless Communication', '**Presented in the International Conference on Engineering, Energy Environment (ICEEE-2017)** held during 31st March to 02nd April 2017, at TRP Engineering College (SRM Group) Trichy, Tamil Nadu.
13. **Iango. R**, Sree Renga Raja. T 'Fault Location Method for STATCOM Connected Transmission Lines using CCM', '**Proceedings of International Conference on Emerging Trends in Engineering and Management Research "ICETEMR-1016"**, April 23rd 2016, pp.23. M.E.T.College of Engineering, Kanyakumari, Tamil Nadu.
14. **Iango. R** 'Modeling and Simulation of DVR Based on Dual Voltage Source Converter by a Super Capacitor Bank' '**Proceedings of International Conference on science, Engineering and Management "ICSEM'13"**, 17th and 18th May 2013. pp. 582-586. Srinivasan Engineering College, Perambalur, Tamil Nadu.

Publication in National Conferences: (09)

1. **Iango.R** 'Multi Input SEPIC Converter based Grid connected Hybrid Energy System', '**Presented in the National Conference on 'Advanced Communication, Computing and Power Systems', (NCACCPS2K18)**, held on 23rd March 2018, at St.Joseph's College of Engineering and Technology, Thanjavur., Tamil Nadu.
2. **Iango.R** 'Design and Implementation of Hybrid Energy Using Converter Topology', '**Proceedings of Third National Conference on Advancement in Electrical Power, Signal Processing and Communication Network Systems' "ESCON-2014"**, 7th and 8th March 2014, Selvam College of Technology, Namakkal, Tamil Nadu.
3. **Iango.R** 'Simulation of FPGA Based Speed Control of 3 phase Induction Motor using Fuzzy Control', '**Proceedings of Third National Conference on Advancement in Electrical Power, Signal Processing and Communication Network Systems' "ESCON-2014"**, 7th and 8th March 2014, Selvam College of Technology, Namakkal, Tamil Nadu.
4. **Iango.R** 'Design and Implementation of DVR Based On Dual Voltage Source Converter by a Super Capacitor Bank' '**Proceedings of National Conference on Intellectual Perspective on Intelligent Control' "IPIC'13"**, 27th March 2013. Annai Mathammal Sheela Engineering College, Erumapatty, Tamil Nadu.

5. **Ilango.R** ‘Power Quality Improvement in Distribution System using FLC Based D-STATCOM’ ‘**Proceedings of Second National Conference on Advancement in Electrical Power, Signal Processing and Communication Network Systems**’ “**ESCON-2013**”, 15th and 16th March 2013, Selvam College of Technology, Namakkal, Tamil Nadu.
6. **Ilango.R** ‘A new Voltage gain Improved method in a Forward- Fly back Converter using a soft-Switching Technique’ ‘**Proceedings of Second National Conference on Advancement in Electrical Power, Signal Processing and Communication Network Systems**’ “**ESCON-2013**”, 15th and 16th March 2013, Selvam College of Technology, Namakkal, Tamil Nadu.
7. **Ilango.R** ‘Impact of FACTS Devices on Distance Relay’, ‘**Proceedings of the National Conference on Electrical Emerging Technology “NCEET09”**’, 28th March 2009, M.A.M. College of Engineering, Siruganur, Trichy, Tamil Nadu.
8. **Ilango.R** ‘Nonlinear compensation for voltage source Inverter’, ‘**Proceedings of the Second National Conference on Cutting Edge Technologies in Power Conversion and Industrial Drives, “PCID2006”**’, 24-25th March 2006, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu.
9. **Ilango.R** ‘Current Controlled techniques for PWM Converters’, ‘**Proceedings of the Second National Conference Emerging Technologies in Electrical Systems**’ “**ETES**” organized by, Noorul Islam College of Engineering, Kumaracovil, Thuckalay, Tamil Nadu, on 10th & 11th March 2006.

Membership in Professional Bodies:

1. Life member in Indian Society for Technical Education (**ISTE**), **India** -(**LM 49777**)
2. Senior Member in Institute of Research Engineers and Doctors - (**IRED**), (**SNM 10100058482**)
3. Member in International Association of Engineers (**IAENG**) - (**204688**)
4. Member in Institution of Engineers, India (**IEI**), Kolkata - (**M-1628121**)