

Dr.S.Muthubalaji

Personal Information



Designation: Professor

Qualification: Ph.D

Experience: 17 Years

Specialization: Distributed Generation, Power Electronics

Date of Joining: 04.01.17

Phone Numbers: 9047040978

Emai-Id: muthusa15@cmrcet.org

Achievements/Publications/Workshops/Seminar/Guest Lectures

Publications

- 1.Muthubalaji. S & Malathi. V (2015) ‘Multi-objective distribution feeder reconfiguration by considering Energy Not Supplied with Distributed Generation’ TehnickiVjesnik - Technical Gazette vol. 22, no. 6 (AUC Annexure – I Version 2014.1, Sl. No: 7967, ISSN 1330-3651) (SCI Indexed)**
- 2. Muthubalaji. S & Malathi. V (2017) ‘A Hybrid MACO and BFOA algorithms for power loss minimization and total cost reduction in distribution systems’ Turkish journal of Electrical Engineering and Computer sciences vol.25 No.1 pp.337-351 (AUC Annexure – I Version 2014.1, Sl. No: 8171, ISSN 1300-0632) (SCI Indexed)**
- 3. Muthubalaji. S, Malathi. V & Rajasekar. M (2015) ‘A Multi objective Reconfigured Distribution Network to Minimize the Power Loss and Improve the Voltage Stability’ IJAER, vol.5, (2015) pp. 4404-4409 (AUC Annexure – II Version 2014.1, Sl. No: 8565, ISSN 9734562) (ICI Indexed UGC Approved)**
- 4. Muthubalaj. S & Malathi, V “Optimal loss reduction and Reconfiguration of Distribution system with distributed generation Using Harmony Search Algorithm” Lecture Notes in computer science series, Springer Volume 8947, 978-3-319-20293-8, 339512_1_En, Chapter 27 (Scopus Indexed)**

5. I.Nirmal Kumar, S.MuthuBalaji, **“Transmission Line Monitoring For Congestion Management Based On Generator Sensitivity Factor Using Particle Swarm Optimization”** International Journal of Science and Innovative Engineering & Technology, ISBN 978-81-904760-5-8.

6. **Muthu Balaji. S,** Abdul Kareem M (2017) **“Performance Enhancement Of Radial Distribution System By Simultaneous Reconfiguration, Optimal Placement Of DSATCOM and PV Array Using Differential Evolution Algorithm”** International Journal Of Engineering Sciences & Research Technology, **ISSN 2277-9655** vol.6 issue.

7. Shanmugapriyan. J, Karuppiah N, **Muthu Balaji. S,** Tamilselvi. S (2017) **“ Optimal Placement of Multi Type DG units for Loss Reduction in Radial Distribution System considering the Distributed Generation Suitability Index using Evolutionary Algorithms “** Accepted for publication Bulletin of the Polish Academy of the Sciences Technical Sciences **ISSN 0239-7528** (print) **ISSN 2300-1917** (online) (AUC Annexure I Version 2017). (**SCI Indexed**)

8. **Muthubalaji. S.,** Anand. R , Senthilpandian P(2017) **“Performance enhancement analysis of an isolated DC-DC converter using fuzzy logic controller”** International Journal of Engineering &Technology (UAE), **ISSN 2227-524X** vol.7 No 1.2 pp. 205-210 (Scopus Indexed journal).

9. Anand. R , **Muthubalaji. S.** (2017) **‘A Novel Multilevel Inverter topology with minimal switches’** International Journal of Engineering & Technology, **ISSN 2227-524X** , vol.7 No 1.2 pp. 205-210 (**Scopus Indexed**).

10. **Dr.S.MuthuBalaji,** Dr.R.Anand, (2017) **“Design and Development of Multi agent system for Energy Management of Micro Grid”**, CMR Journal of Engineering and Technology, **ISSN 2455-4677** Vol.2 Issue.1 June, ,pp 11-19

11.Karuppiah Natarajan, **Muthubalaji Sankaramoorthy,** Anand Rajkumar (2018) **“Controlling the Power Loss in Radial Distribution Network by Optimally Placing UPQC through Reconfiguration Using Evolutionary Algorithms”** International Journal of Pure and Applied Mathematics Volume 118 No. 16, 161-179 **ISSN: 1311-8080** (printed version); **ISSN: 1314-3395** (on-line version) (**Scopus Indexed**)

12. J.V.N. Santhosh, **S.Muthubalaji**, D.S.Sanjeev “Design and Analysis of MW scale Sub-Station Fed by Wind farm with superconducting Fault Current Limiter” (2018) Journal of Emerging Technologies and Innovative Research, **eISSN: 2349-5162**, Vol 5, Issue 3 pp.344-352. (UGC Approved journal)

Conference Presentation International & National Level

1. Presented a paper on ‘**Optimal Loss Reduction and Reconfiguration of Distribution System with Distributed Generation Using Harmony Search Algorithm**’ in the 5th Joint International Conference on Swarm, Evolutionary and Memetic Computing (SEMCCO 2014) conducted by SOA University, Bhubaneswar on December 18-20, Odisha.

2. Presented a paper on ‘**Congestion management in Transmission line by UPFC using Bacterial Fore Aging optimization Algorithm**’ in the International Conference on Power and Energy system (ICPES-17) organised by Velammal College of Engineering & Technology, 21-22 April 2017, Madurai

3, Presented a paper on ‘**Optimal placing and sizing of Distributed Generation units with voltage Stability Index using Differential Evolutionary Algorithm for voltage stability improvement and power loss minimization**’ in the International Conference on Power and Energy system (ICPES-17) organised by Velammal College of Engineering & Technology, 21-22 April 2017, Madurai

4.Presented a paper on ‘**Controlling the Power Loss in Radial Distribution Network by Optimally placing UPQC through Reconfiguration using Evolutionary Algorithm**’ in the International Conference on Cognitive Informatics and soft Computing (ICCISC-2017) organized by Vignana Bharathi Institute of Technology, 20-21st December 2017, Hyderabad.

5.Presented a paper on ‘**An Enhanced Analysis of Two Diode Model PV Module under Various weather conditions** ’ in the IEEE International Conference on Circuits and Systems (ICCS-2017) organized by IEEE India Council & IEEE Circuits and Systems Society India Chapter, 20-21st December 2017, Mar Baselios College of Engineering and Technology, Thiruvananthapuram Kerala.

6 .Presented paper titled **“Reduction of Harmonics in Multilevel PWM based multilevel inverter using Feed Forward Compansation Technique ”** in national conference NCEE ‘10 on 19th march 2010 at Kamaraj College of Engineering and Technology, Virudhunagar.

7. Presented paper titled **“Speed control of Permanent Magnet Synchronous Motor with Direct Torque Control using Space vector Modulation”** in the 4th International conference PEDC ‘ 08 on 13th march 2008 at Alagappa Chettiar College of Engineering and Technology, Karaikudi

8.Presented paper titled **“Enhancing the performance of SMPS by reducing harmonics Distortion by 2 X 2 Matrix Converter”** in national conference ETEPS ‘08 on 18th march 2008 at Sethu Institute of Technology, Kariapatti

Achievements

- Reviewer in Tehnicki Vjesnik - Technical Gazette journal Croatia ISSN 1330-3651
- Reviewer in International journal of Engineering Research & Technology ISSN 2278-0181 Reviewer ID: IJERTREW1348,
- Reviewer in Advances in Science, Technology and Engineering System Journal, Reviewer code: RVELE0209
- invitee Editor in Turkish journal Of Electrical Engineering and computer science ISSN 1300-0632
- Reviewer in Global Journal incorporation.
- Editorial Board member in International Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT) SSN: 2454-132X
- Editorial Board member in Journal of Engineering Technologies and Innovative Research Reviewer Id: 112587
- Editor in chief Asian journal of Science & Engineering Research.
- Editorial Board member in International Journal of Electronics Engineering Research (IJEER), ISSN 0975- 6450
- Given many seminars and guest lecturer at polytechnic and engineering college level
- Chaired many national level symposium conducted by Engineering colleges

Workshops.

1. Participated in one day national level FDP on “**MATLAB**” conducted by Institution of Engineers on **4th June, 2013**
2. Participated in one day national level workshop on “**Research issues in Embedded System and digital Signal Processing Using FPGA**” conducted by Anna university of Technology Madurai on **12th May, 2011**
3. Participated in the Anna University of Technology Madurai Sponsored national level FDP on “**Research issues on Electrical Engineering**” conducted by Velammal College of Engineering and Technology, Madurai on **10th & 11th March, 2011**
4. Participated in one day national level FDP on “**Recent Trends in Nano Technology**” conducted by Lathamathavan Engineering College, Madurai on **24th October, 2009.**
5. Participated in one day national level FDP on “**Recent Trends in in Modern Analytical Techniques and Energy Storage Devices**” conducted by Lathamathavan Engineering College, Madurai on **27th November, 2009.**
6. Participated in one day national level workshop on “**OrCADPSpice**” conducted by Sethuinstitute of Technology, Kariapatti on **5th March, 2008.**