Dr.G.Baskar M.E., Ph.D., FIE

Principal/ Professor

29 Years of experience in Teaching/ Research/Administration

PUBLICATIONS

INTERNATIONAL JOURNAL

1. **Baskar.G** and Mohan.M.R., "Optimal Dispatch using Improved Lambda based Genetic Algorithm suitable for Utility Systems" Int. Journal on *Electric Power Components and Systems,* Vol. 31; pp. 627-638, 2003 (Taylor and Francis publications)

2. **Baskar.G** and Mohan M.R "Security Constrained Economic Load Dispatch using Improved Particle Swarm Optimization" *International Journal of Electrical Power and Energy Systems vol. 30 pp. 609-613. 2008* (Elsevier publications)

3. **Baskar.G** and Mohan M.R "Security Constrained Economic Load Dispatch uses Evolutionary programming and PSO-EP Techniques" International *Journal on Distributed Energy Resources, Vol. 4, No.3, July 2008., pp 199-214,Technology&science, Germany*

4. **Baskar.G** and Mohan M.R "OPF using Improved Particle Swarm Optimization for Evaluation of Wheeling and NUG related Options" *International Journal on Distributed Energy Resources,Vol. 4, No.3, July 2008., pp 214-231 Technology&science, Germany*

5. **Baskar.G** and Mohan M.R "Contingency Constrained Economic Load Dispatch using Improved Particle Swarm Optimization Techniques for Security Enhancement" *International Journal on Electric Power Systems Research, 79(2009),615-621* (Elsevier publications)

6. **Baskar.G** and Mohan M.R "Contingency Constrained Economic Load Dispatch using Improved Particle Swarm Optimization Techniques for

Security Enhancement" *International Journal on Electrical and Power Engineering, 2(5), pp 33-339, 2008*

7. **Baskar.G** and Mohan M.R "Economic Diapatch with line flow Constraints Using Hybrid PSO and IPSO techniques" *International Energy Journal (IEJ)*,vol.10.Issue3,SEP.2009.pp201-208. (Asian Institute of Technology)

8. **Baskar.G,** S.Prabakaran and Senthilkumar "Economic Dispatch using Hybrid PSO with Prohibited zones and Ramp rate Limit constraints" *Journal of Electrical Engineering and Technology ,2014* (Anna university-Annexure I)

9. V. Shelve, **G. Baskar**, B. Ram Pradheeba *(2014) "Distribution Feeder* Reconfiguration for Reliability Evaluation by Using Binary Particle Swarm Optimization" has been published in *"International Journal of Innovative Research in Science, Engineering and Technology", Volume 3, Special Issue 3, March 2014, ISSN (Print): 2347-6710, ISSN (Online):* 2319-8753.

10. S.Jayachitra **and G.Baskar** "Application of Evolutionary Computation Techniques to Resolve Optimal Location and sizing of series and shunt type FACTS controllers –a Review" accepted for publication in International Journal on Advanced Research.

11. C.Nithyananandam, **G. Baskar** and Nalin Kant Mohanty " Design and fabrication of passive solar still using blue metal, stone" International Journal of ambient Energy, (Taylor and Francis), DOI 10.1080/01430750.2015.1074615.

12. S.Jayachitra and **G.Baskar** (2015), "Power Loss Minimization And Voltage Stability Enhancement In Power System By Optimal Allocation And Sizing Of TATCOM using Enhanced PSO", International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.20 (2015), pp 15905-15909.

13. S.Jayachitra and **G.Baskar** (2015), "Application of Evolutionary Computation Techniques to resolve optimal location and sizing of FACTS Controllers", International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.20 (2015), pp 22862-22867

14. S.Jayachitra and **G.Baskar** (2017), "Application of mutation inspired Constrained Factor PSO considering voltage stability and losses by locating and rating TCSC during N-1 Contingency", International Journal of Reasoning based Intelligent system (Inderscience) ISSN 1755-0556

15. S.Jayachitra and **G.Baskar** "Power quality Improvement using UPQC", series and shunt type FACTS Controllers – International Journal of Engineering Research and Application, Vol.5, No.3, May 2013.

16. S.Jayachitra and **G.Baskar** (2017), "Evolutionary Optimization Techniques for optimal location and parameter setting of STATCOM under generator contingency", International Journal of Intelligent Engineering and Systems", ISSN 2185-3118.

17. S.Jayachitra and **G.Baskar** (2017). "A novel approach to find optimal placement and sizing of Shunt type FACTS controller under over loaded conditions", Jordon Journal of Electrical Engineering, ISSN 2409-9619

18. C.Nithyanandam, **G.Baskar**, R.Umamaheswari "Thermal modeling and performance of a slope passive solar still with phase change material" Int.Journal on Desalination and water treatment(taylor and francis, annexure I)

19. Jaisachin B., Thiruthamil M K., Madhav Ram Samanvay G V., **G.Baskar**, "Building a Secure metaverse: Addressing Cybersecurity Vulnerabilities" International Journal of Computer Science and Information Security ISSN 1947 5500 IJCSIS October 2024 Volume 22 No.5

International Conference

20. Jiji Johnny, V. Selve, Dr. G. **Baskar** (2013) "Optimal Allocation of Distributed Generation to Minimize Loss in Distribution System", paper presented in the "International Conference on Intelligent Instrumentation, Optimization & Signal Processing (ICIIIOS-2013)" at Karunya University, from 1st-2nd March 2013.

21. K.Yamini, V.Selve, **G.Baskar** (2013) "Distribution Feeder Reconfiguration for Reliability Evaluation by using Bio inspired Computing", paper presented in the "International Conference on Intelligent Instrumentation, Optimization & Signal Processing (ICIIIOS-2013)" at Karunya University, from 1st-2nd March 2013.

22. B.Ram pradheeba, V.Selve, **G.Baskar** "Distribution Feeder Reconfiguration for Reliability Evaluation by using Binary Particle Swarm Optimization", paper presented in the "International Conference on Swarm, Evolutionary & Memetic Computing Conference (SEMCCO-2013)" at SRM University, from 19th -21st December, 2013.

23. B.Ram pradheeba, V.Selve, **G.Baskar** "Optimal Placement of Distributed Generation in Distribution System for Voltage Stability Enhancement", paper presented in the "International Conference on Evolutionary & Memetic Computing (SEMCCO-2013)" at SRM University, from 19th-21stDecember, 2013.

24. V.Selve, **G.Baskar,** B.Ram pradheeba"Distribution Feeder Reconfiguration for Reliability Evaluation by using Binary Particle Swarm Optimization", paper presented in the "International Conference on Innovations in Engineering and Technology(ICIET'14)" at KLN College of Engineering from 21st -22nd March, 2014.

25. S.Jayachitra and **G.Baskar** " Power loss Minimization and Voltage Stability Enhancemet in Power system by optimal allocation and sizing of STATCOM using Enhanced PSO" IEEE sponsored Int.National Conf.ON Innovations in Information, Embedded and Communication System ,ICIIECS 20115.

26. S.Jayachitra and **G.Baskar** (2017), "Application of GM-CFPSO approach to find optimal location and rating of STATCOM during various load conditions", Proceeding of IEEE Conference on Intelligent Computing and Control, 23rd and 24th June 2017, Vol.3, pp.86-92

27. S.Jayachitra and **G.Baskar** (2015), "Power loss minimization and voltage stability Enhancement in Power System by optimal allocation and sizing of STATCOM using Enhanced PSO" Proceedings of International Conference on Intelligent Techniques in Control, Optimization and Signal Processing, 19th and 20th March 2015, Vol.3 pp. 240-245.

NATIONAL CONFERENCE

28. **Baskar.G.,** and Mohan.M.R. "Economic Load Dispatch using Evolutionary programming with Prohibited zone" *National Power System Conference (NPSC) 2004 IITM. Chennai*

29. **Baskar.G.,** and Mohan.M.R., "Optimal Dispatch using Improved lambda based Genetic Algorithm suitable for large scale system " *National System Conference, VIT Dec 2004*

30. **Baskar.G** and Prabakaran.S "Optimal Dispatch using improved lambda based Genetic Algorithm suitable for Large Scale System" National Conference GCE, Tirunelvelli.2005

31. V.Selve, **G.Baskar,** B.Ram pradheeba"Distribution Feeder Reconfiguration for Reliability Evaluation by using Binary Particle Swarm Optimization", paper presented in the "National Conference on Recent Trends in Electrical Drives (NACRED'14)" at S.A. Engineering College, during 12th March, 2014.

32. V.Selve, D.Vanmathi, **G.Baskar,** "The Optimal Placement of Distributed generation for the voltage Stability Enhancement", paper presented in the "National Conference on Enhancing Trends in Nano, Embedded and Telecommunication Technology (ETNET'14)" at Saveetha University, during 4th April, 2014.

33. S.Jayachitra and **G.Baskar** "Enhancement of Power quality in an isolated power system through series Compensation" National conference on power system Emergencies, Dec .2013.

34. C,Nithiyanandan, **G.Baskar,** G.Kannan, S.Siddik "Design and , Fabrication of Passive solar still using blue metal stone" International conference on Recent Trends in Engineering and Technology(ICRTET-2014), held at Oxford college of Engineering, polur, TN.

35. S.Jayachitra and **G.Baskar** (2015), "Optimal Setting and sizing of Shunt type FACTS controller using Adapted PSO", Third National Conference on Power System Emergencies, Dept. of EEE, SCSVMV University, March 2015, pp 14-19.

36. S.Jayachitra & **G.Baskar,** "Application of Evolutionary Computation Techniques to   resolve optimal location and sizing of series and shunt type FACTS Controllers – An art of review", Proceedings of National Conference on Intelligent Techniques in Control,   Optimization and Signal Processing, 26th and 27th March 2015,Vol.4, pp. 240-245.

37. S.Jayachitra, "Installation of FACTS (Shunt and series) controller for power system operation Planning by Multi Objective Optimization", Proceeding of National   Conference on Recent Innovations In Electrical Science, 04th March 2015, Vol.3,PP.06-09

38. S.Jayachitra, "Optimal position and Sizing Evalution of D-STATCOM using Particle Swarm Optimization", Proceeding of National Conference on Recent Innovations In Electrical Science, 04th March 2015, Vol.3,PP.10-17.

39. S.Jayachitra, "Optimal Sizing and placement Of Dual DG In IEEE 14-bus Radial Distribution Using PSO Algorithm", Proceeding of NC3E2M'2K15, 20th March, 2015.

RESEARCH ACTIVITIES

1. Reviewer in International Journal of Electrical Power and Energy System, (Elsevier publications) five papers reviewed so far.

2. Editorial member in International Journal on Advanced Engineering Research (ISSN no: 2393-8447).

3. Recognized Supervisor in Anna University, Chennai. Three Ph.D scholars completed Ph.D under my guidance

4. Recognized Supervisor at SCSVMV University, Kanchipuram.

5. Recognized supervisor in Dr.M.G.R University, Chennai

6. Reviewer in International (Turkish)Journal on Electrical and Computer Engineering(Annexure I)

7. Recognized Supervisor in St.Peters University, Chennai.

8. Recognized supervisor in Jawaharlal Nehru Technological University Anatpur.

MEMBERSHIP FROM PROFESSIONAL BODY

1. Member, IEEE.

2. Fellow of Institution of Engineers FIE(INDIA)

3. Member in NHRD, Hosur Chapter.

4. Member, Board of studies, Anna University Chennai.

5. Member, ME - Power system syllabus framing committee, Anna university, Chennai

6. Appointed as External academic auditor of SCSVMV university, kanchipuram

AWARD RECEIVED/ACIEVEMENTS

1. One of the Nominee from INDIA for the Most Prestigious ENI awards 2009.

2. Received Teaching awards in Engineering presented by Education matters and Stafford University UK Message of congratulations and appreciation received from Hon. Prime Minister Shri.Narendra Modi

3. Received Best Engineer 2022 Award given by Institution of Engineers (I)

WORKSHOPS / SEMINARS ATTENDED

1. Conducted and organized more than 200 Invited/guest lectures, AICTE sponsored workshops and Training program. Invited Most Eminent academicians and Industry experts from abroad/India for various workshops, Training program, conferences, symposia and Seminars.

2. Attended Mission 10X "Academic leadership program" held at Wipro campus, Chennai.

3. Workshop on "International accreditation ", held at Jaya Engineering college, Tiruvallur district.

4. Attended EPSI meeting on 27th December 2013 at Chennai –seeking comments/views on draft UGC Regulations 2013.

5. Training and Placement heads conclave on "Recruitment trends and preparing students for employability" 28th Sep 2011, hotel Rain tree, Chennai.

6. Presented (by me) Kingston Engineering college profile at Indo-Global Summit 2011, held at Bangalore

7. Workshop on R&D project Proposal-awareness, needs and Benefits organized by Centre for Technology development and transfer, Anna University,on 28th June 2013.

8. AICTE-SPONSORED "ACCREDIATION AWARENESS WORKSHOP" ON 15-02-02 ANNAMALAI UNIVERSITY – ANNAMALAI NAGAR

9. Workshop on "Soft Computing Techniques" held at Kongu Engineering College, Perundurai.on 20& 21 July 2007.

10. Workshop on "Student Counselling" conducted by NITTTR-Chennai on 29th March 2008.

11. Workshop on Training and practice on Matlab coding for thermodynamic and energy system on 28th and 29th March 2014.

12. Workshop on Training and practice on Mat lab based power electronics and Power systems simulations on16th and 17th august 2014

13. Workshop on open source lab (FOSS) on 5th and 6th August 2014.

14. International conference on Green Technology for Environmental pollution prevention and control (ICGTEPC-2014) held at National Institute of Technology, Trichy 27th -29th Sep. 2014.

15. AICTE sponsored Two-day work shop on Research Methodology on 10th and 11th 2013 at Kingston Engineering College.

16. National conference organized, attended National conf. on Emerging trends in information and Computer Technology on 8th and 9th June 2013 at KEC.

17. National conference(IEEE sponsored) organized, attended National conference on Emerging vistas of Electrical, Electronics and communication Technology on 15th and 16th June 2013.at KEC

18. One day workshop on Leadership development at IIT-M organized by PALS- IIT-M alumni 2017.