



Dr S Satyanarayana
Department of EEE
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1. Educational Qualification :

S. No.	Qualification	University/ Institute	Specialization	Department
1	B. E.	GITAM (Affiliated to Andhra University).	Electrical and Electronics Engg.	Electrical and Electronics Engineering.
2	M. E.	Andhra University.	Power Systems.	--do--
3	Ph. D.	JNT University, Hyderabad	Electrical power Distribution systems	--do--

2. Details of Doctoral Thesis:

Area of Thesis work : Electrical Power Distribution System

Title of Thesis : Enhancement maximum loadability of a Radial Distribution System

Supervisor's Name : Dr G Kesava Rao, Retd. professor, B H U, Varanasi. (Supervisor)

: Dr S Siva Naga Raju, Professor, JNTUK, Kakinada (Co- Supervisor)

Year &Month of Completion work : August'2008

Year of award of Ph.D : 2009

3. Professional Experience:

S. No.	Institute / Organization	Position held	Date of joining	Duration
1	Raghu Institute of Technology, Visakhapatnam	Professor, Principal	01/03/2017	Till date
2	Raghu Engineering College, Visakhapatnam	Professor, Dean & HOD	08/02/2017	1 month
3	Tenali Engineering College, Anumarlapudi	Principal	16/11/2014	1 1/2 Year
4	VRS and YRN College of Engg. & Tech., Chirala.	Principal	08/11/2008	6 Years
5	Tenali Engineering College, Anumarlapudi.	Professor & HOD EEE Dept.	08/11/2007	1 Year
6	St. Ann's College of Engg. and Tech., Chirala.	Associate Professor & HOD EEE Dept.	01/10/2003	4 Years
7	GITAM, Visakhapatnam	Asst. Professor EEE Dept.	09/11/1990	13 Years
8	GITAM, Visakhapatnam	Teaching Asst. EEE Dept.	25/10/1989	1 Year
9	Govt. Polytecnic, Narasipatnam	Part time Lecturer EEE Dept.	Oct' 1987	1 1/2 Year
10	BHPV Ltd, Visakhapatnam	Graduate Apprentice Trainee.	Jan' 1986	1 Year

4. Research Experience:

(A) Ph.D scholars guided :

S. No	Name of the Research Scholar	Title of the Thesis	Year of Award of Ph. D	University /Institute who has awarded the degree	Supervisor /Co-Supervisor
1	G. V. Krishna Murthy	Analysis of Impacts of Distributed Generation on Distribution Systems	2015	JNTUK, Kakinada	Supervisor
2	Mopudevi Subba Rao	Implementation and performance Evaluation of DSP- Based single stage AC/DC Converter	2019	JNTUK, Kakinada	Supervisor
3	Guruvulu naidu Ponnada	Certain aspects in Designing of Grid Connected Solar Photovoltaic Inverters.	2022	JNTUK, Kakinada	Supervisor

(B) Ph.D scholars presently working:

S. No	Name of the Research Scholar	Area of the work	Year of Registration	Registered University /Institute	Supervisor /Co-Supervisor
1	M.Venkata Sudarsan	Power Electronics	2015	JNTUK, Kakinada	Supervisor
2	Chinnakullay Reddy. D	Renewable Energy and Power Electronics	2016	JNTUA, Ananthapur	Supervisor
3	Lagudu Jaya Vani	Power Systems	2017	JNTUA, Ananthapur	Supervisor
4	B Rajasekhar	Power Electronics	2022	Andhra University, VSP	Supervisor
5	P Venubabu	Power Electronics	2022	Andhra University, VSP	Supervisor

*****S. No. 1, 2 & 3 are ready to submit thesis in 2023**

(C) Number of Publications:

S. No	Status of Journal	During Ph.D Program	After Ph.D Program
1	International Journals	5	51
2	National Journals	---	-----
3	International Conferences	-----	6
4	National Conferences	2	6

(D) List of Publications (Only in IEEE/ASME/ASCE format):

(Please mention impact factor)

International Journals

1. S. SATYANARAYANA, T. RAMANA, S. SIVANAGARAJU, G.K. RAO, **“Improving the maximum loading by optimal conductor selection of radial distribution systems”**, Electric Power Components and Systems, Vol. 34, No.7, July 2006, pp. 747-757. **(SCI Indexed, Impact factor-0.64)**
2. S. SATYANARAYANA, T. RAMANA, S. SIVANAGARAJU, G.K. RAO, **“An Efficient Load Flow Solution for Radial Distribution Network Including Voltage Dependent Load Models”**, Electric Power Components and Systems, Vol. 35, No.5, 2007, pp. 539-551. **(SCI Indexed, Impact factor-0.64)**
3. S. SATYANARAYANA, T. RAMANA, S. SIVANAGARAJU, G.K. RAO, **“A Simple Approach for Placing DGs in Radial Distribution System for Loss Minimization”**, International Journal of Electrical Engineering in Transportation (IJEET), Vol. 4, No. 2, 2008, pp. 9-13. **(SCOPUS)**
4. S. SATYANARAYANA, T. RAMANA, S. SIVANAGARAJU, G.K. RAO, **“Enhancing the maximum loadability of Radial Distribution System by Capacitor Placement”**, International Journal of Electrical Engineering in Transportation (IJEET), Vol. 4, No. 2, 2008, pp. 15-25. **(SCOPUS)**
5. S. SATYANARAYANA, T. RAMANA, S. SIVANAGARAJU, G.K. RAO, **“Enhancing the maximum loadability of Radial Distribution system by Network Reconfiguration”**, International Journal of Power and Energy Systems, Vol. 29, No. 1, 2009. **(SCI Indexed, Impact factor-2.587).**
6. K. Nagaraju, S. Sivanagaraju, T. Ramana, S. Satyanarayana & P. V. Prasad, **“A Novel Method for Optimal Distributed Generator Placement in Radial Distribution Systems”**, International Journal of Ambient Energy, Vol. 26, No.1, P.P: 7-19, Jan 2011. **(ESCI indexed).**

7. M.SubbaRao, Dr. Ch.Sai Babu, Dr.S.Satynarayana, G.Ramesh, **“Reduction of Sub-Harmonic Oscillations in Flyback Converter for High Power Factor”**, International Journal of Engineering Science and Technology (IJEST), ISSN : 0975-5462 Vol. 3, No.3, p.p. 1921-1926, March 2011. **(Google Scholar)**
8. M.SubbaRao, Dr. Ch.Sai Babu, Dr.S.Satynarayana, S.L.V.Sravan Kumar, **“Design of single phase DCM integrated buck flyback converter for high power factor”**, International Journal of Engineering & Techno Science (IJETs), ISSN:0976-9293 vol. 2, No.2, p.p. 206-21, April,2011. **(Google Scholar)**
9. Subbarao.M, Sai Babu.Ch, Satyanarayana.S, Sobhan.P.V.S, **“Fuzzy Controlled Parallel AC-DC Converter For PFC”**, International Journal of Advances In Electrical And Electronic Engineering (AEEE) , ISSN 1804-3119,Volume 9, No. 2, Pages: 70-76 , June , 2011.**(SCOPUS)**
10. G.Ranga Purushotham, Dr.S.Satyanarayana, Dr.Ch.Saibabu, **“Implementation of Conventional Controllers in HVDC Links for Improvement of the Power System Stability”**, International Journal of Electrical Electronics and Computer Engineering Reasearch, Volume 2, No. 2, Pages: 255-262, June, 2011. **(Index Copernicus)**
11. M.SubbaRao, Dr. Ch.Sai Babu, Dr.S.Satynarayana, **”Analysis and control of double-input integrated Buck-buck-boost converter for hybrid electric Vehicles”**, in the International journal of Advances in Engineering & Technology, ISSN: 2231-1963 ,Vol. No. 1, No. 4, p.p. 40-46, Sept. 2011. **(Index Copernicus)**
12. M.SubbaRao, Dr. Ch.Sai Babu, Dr.S.Satynarayana, S.L.V.Sravan Kumar, **“Comparative Study of PID-Based LPCM and Fuzzy Logic Controllers for DCM Flyback Converter for High Power Factor”**, International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 6, Number 21 (2011) pp. 2525-2536. **(SCOPUS)**
13. M.SubbaRao, Dr. Ch.Sai Babu, Dr.S.Satynarayana, **“Analysis and Design of DCM Peak-Current Controlled Integrated Buck-Flyback Converter for High Power Factor”**, in the International Journal of Electrical Engineering Applications Research, ISSN: 2249 – 6548, Vol 02, Issue 02; August-December 2011. **(UGC Approved), (Google Scholar)**

14. G.V.K Murthy, S. Sivanagaraju, S. Satyanarayana, B. Hanumantharao, **“Artificial Bee Colony Algorithm for Distribution Feeder Reconfiguration with Distributed Generation”**, International Journal of Engineering Sciences & Emerging Technologies(IJESET), Vol.3, Issue 2, pp: 50-59, Oct’ 2012. **(Google Scholar)**
15. G.V.K Murthy, S. Sivanagaraju, S. Satyanarayana, B. Hanumantharao, **“Reliability improvement of radial distribution system with distributed generation”**,. International Journal of Engineering Science and Technology(IJEST), Vol.4, No.9, pp. 37-54, September’ 2012. **(Google Scholar)**
16. G.V.K Murthy, S. Sivanagaraju, S. Satyanarayana, B. Hanumantharao, **“Optimal DG Placement and Sizing in Distribution System for Loss and THD Reduction”**, International Journal of Electronic and Electrical Engineering, Vol.5, No.3, pp. 227-237, 2012. **(Google Scholar)**
17. G.V.K Murthy, S. Sivanagaraju, S. Satyanarayana, B. Hanumantharao, **“Voltage Stability Index of Radial Distribution Networks with Distributed Generation”**, International Journal of Electrical Engineering, Vol.5, No. 6, pp. 791-803, 2012.
18. G.V.K Murthy, S. Sivanagaraju, S. Satyanarayana, B. Hanumantharao, **“Using artificial bee colony algorithm for distributed generation optimum allocation and sizing to reduce losses and improve voltage profile”**, International Journal of Distributed Energy Resources, Vol.9, No.2, pp. 211-226, June’ 2012. **(ISI indexed)**
19. G.V.K Murthy, S. Sivanagaraju, S. Satyanarayana, B. Hanumantharao, **“Load Flow for Radial Distribution System Using Artificial Bee Colony Algorithm”**, International Journal of advances in Science and Technology, ISSN: 2229-5216, vol. 5, No. 6, PP 1-8, December’2012. **(Google Scholar)**
20. G.V.K Murthy, S. Sivanagaraju, S. Satyanarayana, B. Hanumantharao, **“Optimal placement of DG in distribution system to mitigate power quality disturbances”**, International Journal of Electrical, Electronic Science and Engineering, WASET, Vol. 7, No.2, pp. 1108-1113, 2013. **(Google Scholar)**
21. M.SubbaRao, Dr. Ch.Sai Babu, Dr.S.Satynarayana, **“Lpcm Controlled Single Phase AC/DC Converter For High Power Factor & Tight Voltage Regulation”**, in the Journal of Electrical Engineering, ISSN: 2249 – 6548, Volume 13-edition-4, p.p.230-236, Dec-2013.**(SCOPUS, impact factor-0.967)**.
22. M Siva Rama Krishna, Dr S Satyanarayana, **“Design and Analysis of PI like Fuzzy Logic controlled Buck Converter”**, International journal of

Electronics and Computer Science, ISSN: 2277 – 1956, Vol. 2, No. 3, PP. 1050-1058, 2013. **(Google Scholar)**

23. P Sudheer, Dr S Satyanarayana, **“Harmonics Compensation of HAPF with adaptive Fuzzy Dividing Rule”**, International journal of Engineering and Computer Science, ISSN: 2319 – 7242, Vol. 2, issue. 9, PP. 2790-2798, Sep’ 2013. **(Google Scholar)**
24. G Chandra Sekhar, Dr S Satyanarayana, **“Improvement of power quality using Cascaded Multilevel Inverter Based Fuzzy Logic DSTATCOM”**, International journal of Advances in Electrical and Electronics Engineering, ISSN: 2031 – 5184, Vol. 2, issue. 2, PP. 70-77, 2013. **(Google Scholar)**
25. Pavani Vanga, Dr S Satyanarayana, M Subba Rao **“Design and Analysis of Soft Switched PWM Full Bridge DC – DC Converter for Regulated Voltage”**, International journal of Emerging Trends in Electrical and Electronics(IJETEE), ISSN: 2320 – 9569, Vol. 2, No. 3,PP. 24-29, July’ 2013. **(Google Scholar)**
26. Thanikonda Yedukondalu, Dr S Satyanarayana, M Subba Rao **“Controlling of Buck Converter using different types of Sliding Mode Controllers”**, International journal of Emerging Trends in Electrical and Electronics(IJETEE), ISSN: 2320 – 9569, PP. 1 - 4, July’ 2013. **(Google Scholar)**
27. G.V.K Murthy, S. Sivanagaraju, S. Satyanarayana, B. Hanumantharao, **“Voltage stability analysis of radial distribution networks with distributed generation”**, International Journal on Electrical Engineering and Informatics, Vol.6, No.1, pp. 195-204, March’ 2014. **(Scopus)**
28. M.V.Sudarsan, Dr.Ch.Sai Babu, Dr.S.Satyanarayana, L.Suresh, **“Design and Analysis of Zero Current Switching Based DC to DC Buck Converter”**, Journal of Automation and System Engineering, 8-2 (2014): 108-121. **(Genamics Journal Seek database, Impact factor-0.765). (Scopus)**
29. G.V.K Murthy, S. Sivanagaraju, S. Satyanarayana, B. Hanumantharao, **“Voltage stability enhancement of distribution system using network reconfiguration in the presence of DG”**, Distributed Generation and Alternative Energy Journal, (Taylor & Francis), Vol.30, No.4, pp. 37-54, 2015. **(SCI Indexed).**
30. D Chinnakullay Reddy, Dr S Satyanarayana and Dr V Ganesh, **“Control Strategies of a Hybrid Microgrid for grid connected and island mode operation”**, International journal of control theory and applications, Vol.9, Issue.32, nov’ 2016, pp. 93-100. ISSN: 0974-5572. **(SCOPUS INDEXED).**

31. M.V.Sudarsan, Dr.Ch.Sai Babu, Dr.S.Satyanarayana, **“Design and Implementation of High Power Factor Supply for Leds Based on Integrated Converter”**, International journal of control theory and applications, Vol.9, Issue.29, nov’ 2016, pp. 11-20. ISSN: 0974-5572. **(SCOPUS INDEXED)**.
32. M.V. Sudarsan, Ch. Saibabu, S. Satyanarayana, **“Closed Loop Control of Soft Switched Forward Converter Using Intelligent Controller”**, International Journal of control theory and application(IJCTA), vol. 9, Issue 29, December 2016, pp. 301-312**(SCOPUS INDEXED)**.
33. Chinnakullayreddy, Dr.S.Satyanarayana, Dr.V.Ganesh, **“Control strategies of a Hybrid microgrid for grid connected mode and islanded mode operation”**, International journal of control theory and applications, Vol. 9, issue 32, pp. 93-100, 2016 **(Scopus Indexed)**.
34. M.V.Subba rao, Dr.Ch.Sai Babu, Dr.S.Satyanarayana, **“DSP based current controlled single stage single phase integrated converter with external compensating signal for Class-C & Class-D appliances”**, International Journal of Cogent OA, part of Taylor & Francis Group. Publishing with Cogent OA ensures: 28 March 2017 ISSN: 2331-1916. **(Scopus Indexed)**.
35. M.V. Sudarsan, Ch. Saibabu, S. Satyanarayana, **“Comparative Analysis of Non – Isolated And Isolated Boost Converter for RES Applications”** in the Journal of Advanced Research in Dynamical and Control Systems Vol. 9. Sp issue16, 2017, ISSN 1943-023X, pp.240-251 **(Scopus indexed)**.
36. M.V.Subba rao, Dr.Ch.Sai Babu, Dr.S.Satyanarayana **“1-phase Integrated Buck-Boost PFC LED Driver ”**, in the Journal of Advanced Research in Dynamical and Control Systems (JARDCS), ISSN: 1943-023X, Volume-9, Issue-1, p.p. 283 -292, oct-2017. **(Scopus Indexed)**.
37. M. Ravi Kumar, Dr S Satyanarayana, Dr V Ganesh, **“Inter connection of wind and photovoltaic systems: modeling, conversion and control”**, in the International Journal of Ambient Energy, ISSN: 0143-0750, P.P: 1-10, Nov’ 2017 **(ESCI indexed)**.
38. M.V. Sudarsan, Ch. Saibabu, S. Satyanarayana, **“Modeling and Analysis of a Hybrid Boost DC-DC Converter Distributed Generation”** in the International Journal of Engineering &Technology, Vol 7 issue1.8, 2018, p.p.86-91**(Scopus indexed)**
39. M.SubbaRao, Dr.Ch.SaiBabu, Dr.S.Satyanarayana, **“Fuzzy LPCM Controlled Buck Integrated PFC Converter for Class C & D Appliances”**,

International Journal of Engineering & Technology (UAE), ISSN: **2227-524**, Volume-7-Issue1.8,p.p.35-39, Feb-2018.

DOI: [10.14419/ijet.v7i1.8.9447](https://doi.org/10.14419/ijet.v7i1.8.9447). (Scopus).

40. M.SubbaRao,Dr. Ch.Sai Babu, Dr.S.Satyanarayana, **“Fuzzy Peak Current Controlled Integrated PFC Converter with Slope Compensation”**, in the International Journal of Engineering & Technology (UAE), ISSN: **2227-524**, Volume-7, Issue-1.8,p.p.31-34, Feb-2018.
DOI: [10.14419/ijet.v7i1.8.9446](https://doi.org/10.14419/ijet.v7i1.8.9446) (Scopus)
41. D. Chinna Kullay Reddy, S. Satyanarayana, V. Ganesh. **“Design of Hybrid Solar Wind Energy System in a Microgrid with MPPT Techiques.”** International Journal of Electrical and Computer Engineering, Vol. 2, No. 2, April 2018, pp. 730~740. **(Scopus)**
ISSN: 2088-8708, DOI: 10.11591/ijece.v8i2.pp730-740.
42. M. Ravi Kumar, Dr S Satyanarayana, Dr V Ganesh, published a paper on, **“Advanced sliding mode control for solar PV array with fast voltage tracking for MPP algorithm”**, in the International Journal of Ambient Energy, ISSN: 0143-0750, P.P: 1- 9, July’ 2018 **(ESCI)**.
<http://www.tandfonline.com/loi/taen20>.
43. M.V.Subba rao, Dr.Ch.Sai Babu, Dr.S.Satyanarayana, **“Digital Fuzzy Current Mode Controlled Integrated PFC Converter with External Ramp Compensation”**, Journal of Circuits, Systems, and Computers, Vol. 27, No. 9, (August’ 2018).(Ref.: Ms.No.WSPC-JCSC-D-17-00487R2.**(SCI Indexed)**).
44. Jaya Vani Lagudu, Ganesh Vulasala & S. Sathy Narayana, **“Maximum energy harvesting in solar photovoltaic system using fuzzy logic”**, International Journal of Ambient Energy, 18 Oct 2018. **(ESCI)**
<https://doi.org/10.1080/01430750.2018.1525589>
45. M. Subbarao, Ch. Sai Babu, S. Satyanarayana, **“Design and analysis of variable switching frequency controlled integrated switched mode power converter for class C & class D appliances”** Ain Shams Engineering Journal, Volume 9, Issue 4, Pages 2849-2858, December 2018. **(SCI Indexed)**
46. Chinnakullayreddy, Dr.S.Satyanarayana, Dr.V.Ganesh, **“Performance of DQ Based Controller for Solar Wind Hybrid Power System”**, International journal of Recent advances in electrical and electronics Engineering -Emerging source citation Index, Vol. 12, issue 2, June-2019, pp. 96-104. **(ESCI)**
47. Chinnakullayreddy, Dr.S.Satyanarayana, Dr.V.Ganesh, **“Towards an enhancement of power quality in the distribution system with integration of BESS and**

FACTS Device", International journal of Ambient energy (accepted 2019, June), pp. 1-19, **(ESCI)**.

48. M. Subbarao, Ch. Sai Babu, S. Satyanarayana, "**Digital variable switching frequency controlled integrated power converter for class C and class D appliances**", International Journal of Power Electronics, Vol. 11, No. 3, 2020, page 339 – 358. **(Scopus)**. Inderscience Enterprises Ltd.
49. M.V. Sudarsan, Ch. Saibabu, S. Satyanarayana, "**Performance Analysis of Fuzzy Controlled High Gain Based Active Network Converter for RES Applications**" Journal of Green Engineering, Volume-10, Issue-6, June 2020 **(Scopus indexed)**.
50. Jaya Vani Lagudu, Ganesh Vulasala & S. Satyanarayana, "**Power sharing scheme in interconnected DC microgrids – A new approach**", International Journal of Ambient Energy, 11th june, 2020 **(ESCI)**. <https://doi.org/10.1080/01430750.2020.1772875>
51. M.V. Sudarsan, Ch. Saibabu, S. Satyanarayana, "**Fuzzy Controlled High Gain Non-isolated DC to DC Hybrid Boost Converter**", Lecture Notes in Electrical Engineering vol.655, pp. 141-151, published by Springer nature, Switzerland, 2021, https://doi.org/10.1007/978-981-15-3828-5_16 **(Scopus indexed)**.
52. M Ravi Kumar, Dr S Satyanarayana, Dr V Ganesh "**Performance Improvement of Solar Maximum Power Point Tracking Using Sliding Mode Control Algorithm**" pp-403-410, published by Springer nature, Switzerland, 2021, https://doi.org/10.1007/978-981-15-3828-5_16 **(Scopus indexed)**.
53. Thanikonda Yedukondalu, Dr Mopidevi Subba Rao, Dr S Satyanarayana, M V Sudarsan, "**Single Stage AC-DC Integrated Double Buck- Boost LED Driver**", Lecture Notes in Electrical Engineering vol.655, pp-567-577, published by Springer nature, Switzerland, 2021, https://doi.org/10.1007/978-981-15-3828-5_16 **(Scopus indexed)**.
54. M.V. Sudarsan, Ch. Saibabu, S. Satyanarayana, "**High-performance analysis of interleaved high - gain converter with active switched inductor using intelligent controller**", the Journal of Supercomputing, under exclusive license to Springer Science+Business Media, LLC part of Springer Nature 2021**(SCI)**. Accepted: 27 November 2020 © The Author(s), Published online: 04-01-2021. <https://rdcu.be/cc4jp>

55. Guruvulu Naidu Ponnada, Ch Sai Baba, S Satyanarayana, S S Biswas, **“Fault Detection and Tolerance of a Hybrid Five Level Inverter”**, Iranian Journal of Science and Technology, Transactions of Electrical Engineering. Accepted: 20 February 2021, Published: 15th march 2021. 45, 895-904. **(SCI)**. <https://doi.org/10.1007/s40998-021-00415-y>. Cite this article 125 Accesses/ Metrics
56. P. Guruvulu Naidu1 · Ch. Saibabu1 · S. Satyanarayana2, **“A single phase five-level inverter with single and multiple switch fault tolerance capabilities”**, Electrical Engineering, Received: 5 August 2020 / Accepted: 17 April 2021, published: 6th may 2021. 103,3139-3150, **(SCI)** under exclusive licence to Springer-Verlag GmbH Germany, part of Springer Nature 2021 Abstract. Cite this article 286 Accesses/ Metrics

International Conferences

1. M. Subba Rao, Dr. Ch. Sai Babu, Dr. S. Satynarayana, “Analysis & Design of Peak Current Controlled IBFC for High power factor & Tight Voltage Regulation” at *International Conference(ICAEE’14)* on VIT university, vellore, 9-11january, 2014.**(IEEE sponsor)**
2. M.SubbaRao, Dr. Ch.Sai Babu, Dr.S.Satynarayana, S.L.V.Sravan Kumar, **“Analysis and Design of Non-Isolated Single Phase AC/DC PFC Topologies to Drive LEDs”** at International Conference On SMART GRID-2014 on KL university,Guntur,19-20 september,2014. **(IEEE sponsor)**.
3. M.SubbaRao, Dr. Ch.Sai Babu, Dr.S.Satynarayana, S.L.V.Sravan Kumar **“Fuzzy Controlled Single Stage AC/DC Converter with PFC to Drive LEDs”** at International Conference On SMART GRID-2014 on KL university,Guntur,19-20 september,2014. **(IEEE sponsor)**.
4. M Ravi Kumar, Dr S Satyanarayana, Dr V Ganesh **“A Simple Matlab/Simulink Model of Balanced Radial Distribution Systems and Its Application to Find Optimal Penetration of Active, Reactive and Complex Power to Minimize Power Losses”** in IEEE co-sponsored International Conference on Signal Processing, Communication, Power and Embedded Systems (SCOPEs), 3rd – 5th October 2016 at Centurion University of Technology and Management, Odisha, India.
5. Subbarao, M, Ch Sai Babu, and S. Satyanarayana. **"Charge Current Controlled Single Phase Integrated Switched Mode Power factor Correction Converter."** Energy Procedia117 (2017): 71-78.

6. Subbarao, M, Ch Sai Babu, S Satyanarayana, and SLV Sravan Kumar. **"Analysis and design of peak current controlled IBFC for high power factor and tight voltage regulation."** In 2014 International Conference on Advances in Electrical Engineering (ICAEE), pp. 1-4. IEEE, 2014.

National Conferences

1. S. SATYANARAYANA, **"Utilization of non-conventional energy sources – an approach to Wind Power"**, at national seminar on environmental conservation and management (ECOMAN) organized by college of Engineering, GITAM during 7-8 march'96, Visakhapatnam.
2. SATYANARAYANA, S. SIVANAGARAJU, G.K. RAO, **"A Novel method for loss minimization in radial distribution systems using Network Reconfiguration"**, at first national conference on "Cutting Edge Technologies in power conversion S and Industrial Drives(PCID-2005)" organized by department of Electrical and Electronics Engineering, Bannari Amman Institute of Technology. Sponsored by Council of Scientific and industrial Research(CSIR), New Delhi.
2. S. SATYANARAYANA, S. SIVANAGARAJU, G.K. RAO, **"A Novel load flow solution for Radial Distribution Network Including Voltage Dependent Load Models"**, at first national conference on "Soft computing and Machine Learning for Signal Processing, Control, Power and Telecommunications", NCSC – 2006, organized by College of Engineering, Bhubaneswar(CEB), during 24 – 26, march'2006 at Bhubaneswar, Orissa, India.
4. S. SATYANARAYANA, S. SIVANAGARAJU, G.K. RAO, **"A Novel method for load balancing in Radial Distribution Systems using Network Reconfiguration"**, at national conference on "advanced trends in Electrical Engineering 2005" organized by Electrical Engineering Department, JNTU College of Anantapur.
5. M.SubbaRao, Dr. Ch.Sai Babu, Dr.S.Satynarayana, Shaik moulali, **"A Discrete Dynamic Model of PWM DC-DC Converters"**, National conference on Recent Advances in Communications and Energy Systems (RACES – 2011), VLITS, Vadlamudi, 29-30, Apr-2011, p.p.145-152.
6. M.SubbaRao, Dr. Ch.Sai Babu, Dr.S.Satynarayana, N.Manasa, **"A Discrete Dynamic Model of PWM DC-DC Converters"**, National conference on Technological Developments in Power Engineering (TDPE-2012), Vignan University, Vadlamudi, 17&18, Aug-2012, p.p.13-16.
7. M.SubbaRao, Dr. Ch.Sai Babu, Dr.S.Satynarayana, M.Deepthi, **"Comparison of Voltage Controlled Active Power Factor Correction Techniques in Single Phase AC-DC Converters"**, National conference on Emerging and Innovative Trends in Electrical Engineering, Vignan University, Vadlamudi, 27&28, sep-2013.

8. M.SubbaRao,Dr. Ch.Sai Babu, Dr.S.Satynarayana, M.pavani' **“Review of Single Phase AC-DC Converters for Regulated Voltage”**, National conference on Emerging and Innovative Trends in Electrical Engineering,Vignan University,Vadlamudi,27&28,sep-2013.
9. D Chinnakullay Reddy, Dr S Satyanarayana and Dr V Ganesh, **“Control Strategies of a Hybrid Microgrid for grid connected and island mode operation”**, at National conference on new trends in multi disciplinary research and practice, GITAM University, Bangalore on 7-8, October 2016

(F) Patents Published:

S. No.	Title of the Patent	Agency which has awarded the patent	Year
1	“Machine Learning Based Solar Power Tracking System for Electric Vehicles” application no.202241000709	Ingenious for Research	07/01/2022
2	A Sofa with a Self Cleaning Unit and Method Thereof Patent No; 202341001418	Indian Patent	13/01/2023

(G) Patents Granted:

S. No.	Title of the Patent	Agency which has awarded the patent	Year
1.	“Optimal Design of Modilar DC-DC Converter Combined with Series Resonance Converters for Energy Integration”. Patent number: 2020103761.	Ingenious for Research	17/03/2021

5. Areas of Research Interests: Power Systems, Power Electronics :

1. Awards: “Mother Teresa Sadbhavana Award”. For outstanding achievements and Remarkable role in the field of education from International Business Council, New Delhi on June 6th 2014.

2. Text Books Authored:

1. Electrical Power Transmission and Distribution.
2. Power Systems –II
3. Analysis of Linear Systems
4. Switchgear and protection
5. Electrical Technology

3. Membership in Professional Organizations:

1. Fellow of Institute of Engineers (I)
2. Indian Society for Technical Education