Dr.SRIDHAR H S

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Education

	Degree	Year	Institute	Specialization
1	Ph.D.	2017	VTU	Smart Grid
2	M.Tech	2009	VTU	Digital Electronics
3	B.E.	2005	M.C.E., VTU	Electrical and Electronics Engg

Professional Experience

	Date (from-to)	Designation	Organization
1	23-08-2011	Till date	Siddaganga Institute of Technology, Tumkur
2	7-11-2005	22-08-2011	Sri Siddhartha Institute of Technology, Tumkur

Positions held

Worked as PG   Coordinator for M.Tech Power Electronics

Affiliations of Professional organizations

- MISTE

Awards and Honors

Nill

Courses Taught

Undergraduate Courses

1. Basic Electrical Engineering	2. 8051 Microcontroller
3. Microprocessor and Microcontroller	4. Digital Electronics
5. Signals and Systems	6. Embedded Systems
7. Analog Electronics	8. Power Electronics in Smart Grid
9. Digital signal Processing	10. Digital system design
11. Smart Grid	12. Transform Techniques in Electrical Engineering

Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion
	Nill		

Research Areas

- smart grid security
- Embedded Edge Intelligence

Sponsored Projects

Nill

Publications

Journals

1. "*Dual-DC-Port Asymmetrical 5-Level H-Bridge Inverter With PI,PWM&SPWM Technique*" H S Sridhar ,Mr.Kirankumar International Journal of Advance Engineering and Research Development, Year 2020

2. *"Implementation of Agent based secured communication protocol in Intelligent Agent System for Smart Grid",* **H S Sridhar**, Dr.M Siddappa and Dr. G.C.Banu prakash, International Journal of Electronics Communication and Computer Engineering, Volume 7,Issue 3, May-June,2016

3. "*Comparative Analysis of Trans-Z-Source Inverter and Cascaded Multi cell Trans-Z-Source Inverter"* H S Sridhar, Kavitha H, International Journal of Innovative Science and Modern Engineering (IJISME),ISSN: 2319-6386, Volume-3 Issue-7, June 2015

4. *"Secured Power Aware routing protocol for Smart grid using sworm intelligence*", H S Sridhar, Dr.M Siddappa and Dr. G. C. Banu Prakash, International Journal of Smart Grid communication engineering Vol-02, August 2014

5. *"A Survey of Energy Efficient Routing Protocols In Smart grid Network",* H S Sridhar and Dr.M Siddappa, International Journal of Electrical Engineering applications Vol 03, Issue 03; July-Sep 2014

Conference Proceedings
1. *"Design of secure communication protocol for Smart Grid "* IEEE International Conference On Emerging Devices And Smart Systems – ICEDSS 2017, by   H S Sridhar, Dr.M Siddappa and Dr. G.C.Banu prakash.

2. *"Agent Based Communication Architecture for Smart Grids"* by **H S Sridhar**, IEEE International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) – 2016. Dr.M Siddappa and Dr. G.C.Banu prakash.

3. *"Agent Based Communication Architecture for Smart Grids"* National Conference on Computer Networks and Soft Computing (NCNS – 2016) by H S Sridhar, Dr.M Siddappa and Dr. G.C.Banu prakash

4. *"Fault Detection and Classification in Power System using Machine Learning".* 2021 2nd International Conference on Smart Electronics and Communication (ICOSEC), Volume , Year.2021, Pages 1801-1806 Manojna ;Sridhar H. S.;Nikhil N.;Kumar A.;Amrit P.

5. *"Performance Analysis of Transformer-Less Inverter Topologies for PV Applications"* Monisha R.;Sridhar H.S.;Manojna 2021 IEEE Mysore Sub Section International Conference (MysuruCon), Volume , Year 2021, Pages 417-422

6. *"Comparative Analysis of Different Interleaved DC-DC Converters".* Sowmya H.R.;Sridhar H.S.;Rupesh K.C.2022 International Conference on Computer Communication and Informatics (ICCCI), Volume , Year 2022

7. *"Machine Learning Based Energy Monitoring & Prediction of Utilization"*
Yashas B.;Shrivastava S.;Sridhar H.S.;Chidananda Murthy M.V. 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS), Volume , Year 2022, Pages 366-371

8. *Speed Control of BLDC Motor using Soft Computing Technique5.* Sridhar H.S.;Hemanth P.;Pavitra ;Soumya H.V.;Joshi B.G. 2020 International Conference on Smart Electronics and Communication (ICOSEC), Volume , Year 2020, Pages 1162-1168

9. *"High step-up high frequency push pull DC-DC converter using MPPT with DC motor load"* Prathibha M.R.;Sridhar H.S. 2017 International Conference on Computation of Power, Energy Information and Commuincation. (ICCPEIC), Volume 2018-January, Year 2017, Pages 677-680