



## **Dr. K. Srinivas**

B.E (OU),M TECH (IITM), P.hD (JNTUH),MISTE

### **Associate Professor & Vice-Principal**

Electrical & Electronics Engineering

#### **Areas of Interest:**

power quality, Power electronics applications to power systems

**Dr. K. Srinivas** received the B.E Degree in Electrical & Electronics Engineering from Chaitanya Bharathi Institute of Technology and Science, Hyderabad, Osmania University, Hyderabad, India in 2002, M.Tech Degree in Power Systems and Power Electronics from Indian Institute of Technology (IIT), Madras, Chennai in 2005, Ph.D from Jawaharlal Nehru Technological University Hyderabad. Currently working as an Assistant Professor and Head of the Department of Electrical & Electronics Engineering, Jawaharlal Nehru Technological University Hyderabad College of Engineering, Nachupally (Kondagattu), Jagtial Dist. Telangana. His fields of interest include Power Quality and Power-Electronics Control in Power Systems.

#### **-> Educational & Professional**

##### **-> Academic Qualifications**

-> P.hD in POWER QUALITY, JNTUH (2011-2015)

->

M TECH in POWER SYSTEMS AND POWER ELECTRONICS, IIT MADRAS (2003-2005)

->

B.E in EEE, CBIT/OSMANIA UNIVERSITY (1998-2002)

##### **-> At JNTUH**

-> Assistant Professor, JNTUH (2011 - Till Date)

#### **-> Publications**

## - International Journals

- > Dr. K. Srinivas, *detection and classification of transmission line false using discrete wavelet transforms in the presence of STATCOM*, Design engineering, ISBN No.0011-9342, Issue No.8, pp.4366-4380, design engineering, november, 2021
- > Dr. K. Srinivas, *Adaptive hysteresis band controller based back- propagation algorithm for power quality improvement using D-STATCOM*, Design engineering, ISBN No.0011-9342, Issue No.8, pp.1339-1355, design engineering, november, 2021
- > Dr.k.srinivas, *Power Quality Improvement by Using Discrete Wavelet Transform Based DSTATCOM*, Design Engineering , ISBN No.ISSN: 0011-9342, Issue No. 9, pp.11-9342, Design Engineering , november, 2021
- > Dr. K. Srinivas, *Mitigation of Power Quality Problems in Distribution Side using D-STATCOM*, International Journal of Engineering Sciences, ISBN No.0377 â€“ 9254, Vol No.11, Issue No.3, pp.238-243, International Journal of Engineering Sciences, march, 2020
- > Dr. K. Srinivas, *Instantaneous Reactive Power Theory Control Scheme for Reactive Power Compensation using DSTATCOM*, International Journal of Recent Technology and Engineering (IJRTE) , ISBN No.2277-3878, Vol No.8, Issue No.6, International Journal of Recent Technology and Engineering (IJRTE) , march, 2020
- > Dr. K. Srinivas, *Power Quality Improvement using D-STATCOM with Instantaneous Symmetrical Component Theory*, International Journal of Engineering and Advanced Technology (IJEAT) , ISBN No.2249 â€“ 8958, Vol No.9, Issue No.4, pp.1263-1266, International Journal of Engineering and Advanced Technology (IJEAT) , April, 2020
- > Dr. K. Srinivas, *Load compensation of Unbalance Non-Linear Loads using DSTATCOM*, European Journal of Molecular & Clinical Medicine, ISBN No.2515-8260 , Vol No.7, Issue No.10, pp.2686-2697, European Journal of Molecular & Clinical Medicine, 2020
- > Dr. K. Srinivas, *Modelling of D-Statcom for Unbalanced and Non-Linear Load Compensation using Synchronous Detection Method*, Journal of Huazhong University of Science and Technology, ISBN No.1671-451, pp.1-6, Journal of Huazhong University of Science and Technology, 2020
- > Dr. K. Srinivas, *Compensation of Load by an Adaptive Hysteresis Band Current Controller Using DSTATCOM*, Solid State Technology , ISBN No.9210-9219, Vol No.63, Issue No.5, pp.9210-9219, Solid State Technology , may, 2020
- > Dr. k. srinivas, *CONTROL AND ANALYSIS OF MULTILEVEL INVERTERS USING DIFFERENT PWM MODULATION TOPOLOGIES*, A JOURNAL OF COMPOSITION THEORY, ISBN No.0731-6755, Vol No.12, Issue No.7, pp.20-24, A JOURNAL OF COMPOSITION THEORY, JULY, 2019
- > Dr. k. srinivas, *VOLTAGE REGULATION OF DISTRIBUTION GRID USING DSTATCOM WITH PI AND DQ CONTROL TECHNIQUES*, A JOURNAL OF COMPOSITION THEORY, ISBN No.0731-6755, Vol No.12, Issue No.7, pp.51-56, A JOURNAL OF COMPOSITION THEORY, JULY, 2019
- > Dr. k. srinivas, *CONTROL OF STATCOM USING MODULAR MULTILEVEL CASCADE CONVERTERS*, Pramana Research journal, ISBN No.2249 2976, Vol No.8, Issue No.11,2018, pp.377-380, 2018
- > Dr. k. srinivas, *CONTROL OF SOLAR PV INTEGRATED UPQC-S USING PQ THEORY*, JASC:JOURNAL OF APPLIED SCIENCE AND COMPUTATIONS, ISBN No.1076-5131, Vol No.5, Issue No.4, pp.262-270, JASC:JOURNAL OF APPLIED SCIENCE AND COMPUTATIONS, APRIL, 2018
- > K SRINIVAS, *state space model for 3-phase 4-wire DSTATCOM under unbalanced distorted supply voltages*, International Journal of Advanced Research in Electrical and Electronics and Instrumentation Engineering , ISBN No.2278-8875, Vol No.6, Issue No.6, pp.4898-4902, June, 2017
- > K.Srinivas , *â€œHarmonics Reduction using 4-Leg Shunt Active Power Filtersâ€*, International Journal of Electrical and Electronics Engineering (SSRG-IJEEE), ISBN No.ISSN 2348-8379, Vol No.Volume 3, Issue No.issue 12, pp.46-50, December, 2016
- > K.Srinivas , *â€œSimulation of Load Dispatch Optimization by Variable Control Method on IEEE Three Generators Six Bus Systemâ€*, International Journal of Advanced Research in Electrical Electronics and Instrumentation Engineering, ISBN No.ISSN (print) 2320 â€“ 3765, ISSN (online) 2278 â€“ 8875, Vol No.Volume 5, Issue No.Issue 12, pp.8811-8814, December , 2016
- > K.Srinivas , *â€œSpeed Control of Induction Motor using Space Vector Modulationâ€*, International Journal of Electrical and Electronics Engineering (SSRG-IJEEE), ISBN No.ISSN 2348-8379, Vol No.Volume 3, Issue No.issue 12, pp.51-56, December, 2016
- > K.Srinivas , *â€œSimulation of DSTATCOM Under Different Fault Conditionsâ€*, IPASJ International Journal of Electrical Engineering (IJEE), ISBN No.ISSN 2321-600X, Vol No.Volume 4, Issue No.issue 12, pp.1-7, December , 2016
- > K.Srinivas, Dr. S S Tulasi Ram , *â€œA state space model for 3-phase 4-wire DSTATCOM under unbalanced distorted supply voltageâ€*, Iranian journal of Electrical and Electronics Engineering, ISBN No.ISSN 1735-2827, Vol No.Volume 12, Issue No.issue 1, pp.45-57, March , 2015
- > K.Srinivas, Dr. S S Tulasi Ram , *â€œA Control Algorithm of Power Factor Correction for Single Phase Shunt Active Power Filter under Distorted Supply Voltages/Currentsâ€*, International Journal of Advanced Research in Electrical Electronics and Instrumentation Engineering, , ISBN No.ISSN (print) 2320 â€“ 3765, ISSN (online) 2278 â€“ 8875, Vol No.Volume 3, Issue No.Issue 2, pp.7536-7543, February , 2014
- > K.Srinivas, Dr. S S Tulasi Ram , *â€œA Three Phase Four Wire Shunt Active Power Filter Control Algorithm under Unbalanced and Distorted Supply Voltageâ€*, International Journal of Advanced Computer Research, ISBN No.ISSN (online) 2277-7970, Vol No.Volume 4, Number-1, Issue No.Issue 14, pp.275-280, March , 2014
- > K.Srinivas, Dr. S S Tulasi Ram , *â€œDSTATCOM control using 2-HCC and 3-HCC under transient conditionsâ€*, International journal of Engineering Research and Development, ISBN No.e-ISSN (online) 2278-800X, Vol No.Volume 10, Issue No.issue 7, pp.45-57, July, 2014
- > K Srinivas, *Enhancement of THD in HVDC system using shunt Active Power Filters*, International Journal of Computer Applications, ISBN No.0975-8887, Vol No.77, Issue No.14, pp.19-25, September, 2013
- > K Srinivas, T Kalpana, *VLSI Implementation of Scalable Encryption Algorithm for Different Text and Processor Size*, International Journal of Computer Applications, ISBN No.0975-8887, Vol No.44, Issue No.1, pp.1-7, April, 2012
- > K Srinivas, *Analysis and Implementation of Multi Pulse Converters for HVDC System*, International Journal of Emerging Technology & Advanced Engineering, ISBN No.2250 â€“ 2459, Vol No.2, Issue No.4, pp.183-189, April, 2012
- > Chandragiri Radha Charan, K Srinivas, K Pritam Satsangi, *Learning Rates in Generalized Neuron Model for Short Term Load Forecasting*, International Journal of Computer Applications, ISBN No.0975-8887, Vol No.45, Issue No.24, pp.28-32, May, 2012
- > K Srinivas, *Modeling and Simulation of Fuzzy Controlled SVC for Long Transmission Line*, International Journal of Emerging Technology & Advanced Engineering , ISBN No.2250 â€“ 2459, Vol No.2, Issue No.6, pp.62-68, June, 2012
- > K Srinivas, *Application of Fuzzy Controlled TCSC in Multi Machine Power system for Transient Stability Improvement*, International Journal of Computer Applications, ISBN No.0975-8887, Vol No.48, Issue No.19, pp.42-47, June, 2012
- > Dr.k.srinivas, *Detection and Classification of Transmission Line Faults using Discrete Wavelet Transforms in the presence of STATCOM*, Design Engineering , ISBN No.ISSN: 0011-9342, Issue No.Issue: 8 , pp.4366, Design Engineering , november
- > Dr.k.srinivas, *Detection and Classification of Transmission Line Faults using Discrete Wavelet Transforms in the presence of STATCOM*, Design Engineering , ISBN No.ISSN: 0011-9342, Issue No.Issue: 8 , pp.4366-4380, Design Engineering , november

### International Conference

- > K.Srinivas, *“FPGA applications to 3-phase 4-wire distribution power systems”*, International Conference on Innovative Methods in Engineering Application, Applied Sciences and Management Cases-IMEASMC-2016, the National Small Industries Corp.Ltd (NSIC) Hyderabad, January, 2016
- > K.Srinivas, *“A Comparative Analysis and THD Reduction In 3-Phase 4-Wire Unbalanced Non Linear Loads”*, International Conference on Innovative Methods in Engineering Application, Applied Sciences and Management Cases-IMEASMC-2016, the National Small Industries Corp.Ltd (NSIC) Hyderabad, January, 2016
- > K.Srinivas, Dr. S S Tulasi Ram, *“A Fast Dynamic Response of Three Phase Four Wire Shunt Active Power Filter under Unbalanced Non Stiff Source”*, IEEE International Conference on Smart Electric Grid (ISEG), pp.32-40, KL University, Vijayawada, AP, September, 2014
- > K.Srinivas, Dr. S S Tulasi Ram, *“Three Level Hysteresis control of 3-phase, 4-Wire Shunt Active Power Filter for harmonics Compensation under Unbalanced Non Stiff Source”*, IEEE International Conference on Smart Electric Grid (ISEG), pp.41-48, KL University, Vijayawada, AP, September, 2014

### National Conference

- > K.Srinivas, Nenavath Hanumanth, *“Control Techniques of Three-Phase Four-Leg Shunt Active Power Filter for Harmonics Mitigation, Load Balancing and Reactive Power Compensation”*, National Conference on Recent Trends in Science and Technology (NCRTST- 2015), JNTUH College of Engineering, Nachupally (Kondagattu), 25th - 26th February, 2015
- > K.Srinivas, Dr. S S Tulasi Ram, *“Power factor Correction in non linear loads and Power Distribution Systems Using Shunt Active Power Filters”*, ISTE National Conference on Advances and Applications in Power Systems, Power Electronics and Solar energy (AAPPS-13), Department of Electrical and Electronics Engineering JNTUH CEJ, October 24-25, 2013
- > K.Srinivas, Dr. S S Tulasi Ram, S Reshma Kaur, *“DSTATCOM Operating in voltage and current control Mode by using PWM Technique”*, ISTE National Conference on Advances and Applications in Power Systems, Power Electronics and Solar energy (AAPPS-13), Department of Electrical and Electronics Engineering JNTUH CEJ, October 24-25, 2013
- > K.Srinivas, *“Load Balancing and Power Factor Correction in Power Distribution System Using Instantaneous Symmetrical Component Theory”*, AICTE Sponsored “National Conference Advanced Controls (NADCON 2009)”, 26th and 27th November, 2009

### Events Participated/Organized

#### - Participated

- > Participated in a Refresher Course on *AI TECHNIQUES-ELECTRICAL ENGINEERING*, UGC-HRDC, JNTUH, 22-11-2021 to 04-12-2021
- > Participated in a FDP on *power quality analysis and improvement technique*, Electronics & ICT Academy National Institute of Technology Warangal (An initiative of Ministry of Electronics and Information Technology (MeitY), GOI), 18-06-2018 to 23-06-2018
- > Participated in a FDP on *Inseminate Technical Institutes on OBE competence, R&D and IPR*, G. Narayanamma Institute of Technology and Science (For women), Hyderabad-500104. Telangana. Electronics & ICT Academy National Institute of Technology Warangal (An initiative of Ministry of Electronics and Information Technology (MeitY), GOI), 19-06-2017 to 24-06-2017
- > Participated in a Workshop on *power system studies theory and practice at a glance*, JNTUH College of Engineering Jagtial, 02-04-2016 to 04-04-2016
- > Participated in a Refresher Course on *“Soft Skills for Professional Excellence”*, UGC Human Resource Development Centre, JNTU Hyderabad, Kukatpally., 30-11-2015 to 19-12-2015
- > Participated in a Refresher Course on *“Research Methodology”*, UGC Human Resource Development Centre, JNTUH CEJ, Nachupally (Kondagattu), Karimangar., 11-06-2012 to 30-06-2012
- > Participated in a Orientation Course on *“25th Orientation Course”*, UGC- Academic Staff college, JNTU Hyderabad, Kukatpally., 15-12-2011 to 11-01-2012

#### - Administrative Positions Held

- > Electrical Maintenance Officer, JNTUH College of Engineering Jagtial, 23 Aug 2016 - Present
- > Head Department of Electrical and Electronics Engineering, JNTUH College of Engineering Jagtial, 06 May 2019 - Present
- > Training & Placement Officer, JNTUH College of Engineering Jagtial, 27 Dec 2012 - 15 Dec 2015

- Students

Student Name	Title	Year	Download
DASARI RENUSRI, BHUKYA UMA, KALLEPELLI SUPRIYA, LAMBU VINOD, ANNIMALLA MANIDEEP	REACTIVE POWER COMPENSATION IN DISTRIBUTION SYSTEM	2019	
GANAPAVARAPU NEERAJ KUMAR, BANOTHU SHASHANK, MARRI VENKATESH, RESHMA TABASSUM, GAMPA MADHURYA	ANALYSIS AND SIMULATION OF D-STATCOM FOR MITIGATION OF VOLTAGE SAG AND SWELL	2019	
MOHAMMED FARHEEN, BOLISHETTY NAVEEN, KOLICHALAM NAVEEN, VURITY ANUDEEP, JATHNAM SAICHANDANA	HARMONIC REDUCTION USING D-STATCOM	2019	
THIRUNAHARI ANJALI, ETTINENI JYOSHNA RANI, DAMERABOINA VIJAYKANTH, DOOSA SRIKANTH, MUDDAM AJAY BABU	GENERATION OF ELECTRICITY FROM WASTE HEAT	2018	
DOOTA CHANDRA SHEKAR, VODDEPALLY NAVEENA, GAJJALA SHANMUKA KRANTHI, GANGADI VIJAY, SAINI VARSHINI	DC GENERATOR COMMUTATER LESS	2018	
KALERU NANDA KISHORE, INDARAPU PRANAVI, TEDDU MAHESH, PINDIGA SUDHEER KUMAR, RAINI RAVALI, SINGI REDDY PURNA CHANDER, KASHETTI MAYUSHA, GAJJELA SHYAMALA, GANGADHARA ARAVIND	V/F CONTROL OF THREE PHASE INDUCTION MOTOR USING 5 LEVEL MULTI SPWM INVERTER	2017	
MATTEWADA SINDHU, GUNDAMALLA INDU, ORUGANTI RAJASHEKAR, DOLI AKSHARA, ESLAVATH PADMA,	V/F CONTROL OF 3-PHASE INDUCTION MOTOR USING HYSTERSIS CURRENT CONTROLLED INVERTER	2017	
P SRIKANTH, RAGIPANI SRIBHARGAVI, BOPANA ARUN, JELLA SRIDIVYA, MADA AMARENDAR REDDY	POWER QUALITY IMPROVEMENT BY DSTATCOM USING PWM WITH DECOUPLED CURRENT CONTROLLED THEORY	2016	
M PRABHAVATHI, CHETPELLI YASHWANTH, BAVANTHI SUPRITHA, TARNOJU VENUGOPALACHARY, M SWARAG	MODELING AND SIMULATION OF DYNAMIC VOLTAGE RESTORER FOR VOLTAGE SAG COMPENSATION USING PWM TECHNIQUE	2016	
MANCHIKATLA LAVANYA, ARSHIYA AFREEN, CHATLA MANIDEEP KUMAR, BONTHA NARESH, BITRUGU NAVEEN	IMPROVEMENT OF VOLTAGE PROFILE USING DYNAMIC VOLTAGE RESTORER	2015	
JAGADEESH KEESARI, KOTICHINTALA NIKHILA, MARAM SRIDHAR REDDY, MARTHA SHRAVYA, MULKI SRIKANTH	HARMONICS REDUCTION AND COMPARISON USING DSTATCOM IN 3-PHASE 3-WIRE AND 4-PHASE 4-WIRE SYSTEMS	2015	
AVIRENI JAYARAJU, BANDA RAJU, GANGAVATH DHUP SINGH, MYAKA DIVYA, YALAMARTHI JAYASURYA	PWM CONTROL OF SHUNT ACTIVE POWER FILTER IN DISTRIBUTION POWER SYSTEM	2014	
	HYSTERESIS CONTROL OF SHUNT ACTIVE POWER FILTER IN DISTRIBUTION POWER SYSTEM	2014	
Student Name	Title	Year	Download
SREENADHA RAJU DIVYA	APPLICATION OF WAVELET TRANSFORM TO A DSTATCOM TOPOLOGY WITH REDUCED DC-LINK VOLTAGE FOR LOAD COMPENSATION	2017	
KALYANAPU MANOJKUMAR	POWER QUALITY IMPROVEMENT USING DSTATCOM WITH INSTANTANEOUS PQ THEORY	2016	
MOHAMMAD YOUSUF BABA	RECOGNITION POWER -QUALITY DISTURBANCE USING S-TRANSFORM	2016	
NEELAM JEEVAN KUMAR	ECONOMIC LOAD DISPATCH BY VARIABLE CONTROL METHOD	2016	
NENAVATH HANUMANATHU	HARMONICS REDCTION USING SYNCHRONOUS REFERENCE FRAME WITH HYSTERSIS CURRENT CONTROL OF DSTATCOM	2015	
KATTAPOLOJU SHIVAKUMAR	APPLYING D-STATCOM BASED ON NEW CONTROL METHOD UNDER SHUNT, SERIES AND SIMULTANEOUS FAULT CONDITIONS	2015	
JEELA SRINIVAS	BIDIRECTIONAL DC-DC SWITCHED IMPEDENCE SOURCE ISOLATED CONVERTER AND ITS PHASE-SHIFTING SHOOT-THROUGH BIVARIATE COORDINATED CONTROL STRATEGYRE FOR NON LINEAR LOADS	2014	
D KRANTHI KUMAR	SIMULATION AND MODELING OF DSTATCOM FOR ENHANCEMENT OF VOLTAGE SAG IN UNBALANCED DISTRIBUTION SYSTEM	2013	
S RESHMA KAUR	A FLEXIBLE DSTATCOM OPERATING IN VOLTAGE OR CURRENT MODE BY USING PWM TECHNIQUE	2013	
Student Name	Title	Year	Download
DILEEP KUMAR P	Power Quality	0	
PRASHANTH NEELUGONDA	Power Quality	0	

Contact :

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Electrical & Electronics Engineering

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