



## **Dr. Malaji Sushama**

B.Tech, M.Tech(EPS), Ph.D

### **Professor**

**ISTE, SSI, IETE**

Electrical & Electronics Engineering

### **Areas of Interest:**

- Green Energy,
- Electro-Chemical Sensors,
- Power Systems, Power Electronics,
- Neural Networks and Fuzzy logic applications to Power Systems,
- FACTS controllers,
- Power Quality and Harmonics.
- NanoTechnology

**Dr. M.Sushama**, born on 8<sup>th</sup> Feb 1973, in Nalgonda, a small town near Nagarjuna Sagar, A.P., India. Obtained her B.Tech degree in 1993 and M.Tech degree in 2003 with a specialization in **Electrical Power Systems** from JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, INDIA. She obtained her Ph.D. from JNTU Hyderabad, India in 2009 in the area of "**Power Quality**" using **Wavelet Transforms**. She started her career as **Assistant Professor** in the Department of EEE, JNTU College of Engg., Anantapur, in the year 1995. She worked as **Associate Professor** for 8 years in the Department of Electrical & Electronics Engineering, JNTUH College of Engg., Hyderabad. Presently she is working as **Professor & Head** in Electrical & Electronics Engineering in the Department of EEE, JNTUH College of Engineering, Kukatpally, Hyderabad. She had **24 years** of teaching & **12 years** of research experience. During her teaching career she taught various subjects like C-language & Data Structures, Microprocessors and Micro controllers, Artificial Neural Networks & Fuzzy systems, etc. apart from almost all Electrical Engineering related subjects which includes Electrical Machines and Power systems. She has published 50 international conference papers in various IEEE sponsored conferences, 50 International journal papers and one article in "**Electrical INDIA**". Her research interests include Power Quality, Wavelet Transforms, Neural & Fuzzy expert Systems. She has guided 9 Ph.D's and currently guiding 5 Ph.D student. She is a life member of ISTE, Systems Society of India (SSI) & IETE.

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

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

- > Doctor Of Philosophy. in Power Quality, J.N.T.UNIVERSITY, Hyderabad (2004-2009)

->

M.Tech. in Electrical Power Systems (EPS), J.N.T.U. College Of Engg., Anantapur with First Class (1996-1998)

->

B.Tech (EEE) in Electrical and Electronics Engineering, J.N.T.U. College Of Engg., Kakinada with First Class with Distinction (1989-1993)

#### **-> Professional Experience**

#### **-> Teaching Experience**

- > Professor, J.N.T.U.H. College Of Engg, Hyderabad (1-1-2011 - Till Date)
- > Associate Professor, J.N.T.U. College Of Engg, Hyderabad (3-06-2013 - 31-12-2010)
- > Assistant Professor, J.N.T.U. College Of Engg., Anantapur (15-3-1995 - 02-06-2003)

### **-> Publications**

- > Dr.M.SUSHAMA Ms.Subhashini.Vedala, *â€œSynthesis and Stoichiometric Analysis of Glycine-Urea Assisted Synthesis of Nanoporous LiFePO<sub>4</sub>/C Composite Cathodes for EES Applications*, International Journal of Innovative Technology and Exploring Engineering (IJITEE) , ISBN No.2278-3075 , Vol No.8, Issue No.5, March, 2019
- > Dr.M.SUSHAMA Ms.M.Aruna Bharathi Ms.Subhashini.Vedala, *Synthesis of nanostructured LiMn<sub>1.5</sub>Cu<sub>0.5</sub>O<sub>4</sub> using CAM microwave assisted sol-gel method for Li-ion battery cathode in BEES system*, ScienceDirect Materials Today: Proceedings , 2019
- > Dr.M.SUSHAMA Mrs.M.S.Priyadarshini, *Discrete Wavelet Analysis Based Processing of Short-Duration Voltage Variations*, International Journal of Recent Technology and Engineering (IJRTE), ISBN No.2277-3878, Vol No.7, Issue No.65, March, 2019
- > Dr.M.SUSHAMA Mr.Ravindra Janga, *â€œModeling and Design of PWM based Sliding Mode Controller for Active Clamp Forward Converterâ€*, Journal of Electrical Engineering, Polytechnica Publications, , ISBN No.1582-4594, Vol No.18, Issue No.1, 2018
- > Dr.M.SUSHAMA Ms.Subhashini.Vedala, *â€œUrea Assisted Combustion Synthesis of LiFePO<sub>4</sub>/C Nano composite Cathode Material for Lithium Ion Battery Storage Systemâ€*, Science Direct Materials Today: Proceedings 5 , 2018
- > Dr.M.SUSHAMA Mr. G. Devadasu, *A Novel Approach of Inverter Topology of DVR for Mitigation of Voltage Sags and Voltage Swellsâ€*, International Journal of Applied Engineering Research (IJAER) , ISBN No.0973-4562 , Vol No. 13, Number 15, pp.12115-12123, 2018
- > Dr.M.SUSHAMA Mr. G. Devadasu, *â€œEstimation & Mitigation Of Power Quality Issues In Transmission Systems With An Advanced Compensation Methods â€*, International Journal of Theoretical and Applied Mechanics (IJTAM), ISBN No. 0973-6085, Vol No.Volume 12, Number 4 , 2017
- > Dr.M.SUSHAMA Mr. G. Devadasu, *â€œComparative Study of Sag & Swell Mitigation by a Novel Multi Level DVR with Wavelets â€*, International Journal of Innovations in Engineering and Technology (IJET). Thomson Reuters Researcher ID indexed Journal Researcher , ISBN No.2319-1058, Vol No.Volume 8, Issue No.3, pp.48-54, June , 2017
- > Dr.M.SUSHAMA Mr. G. Devadasu, *â€œModeling & Design of A Transformer less Active Voltage Quality Regulator With A Novel DVRâ€*, International Journal of Electronics Engineering Research (IJEER) , ISBN No.0975- 6450, Vol No.Volume 9, , pp.761-772, Number , 2017
- > Dr.M.SUSHAMA Mr. G. Devadasu, *â€œA Multilevel Diode Clamped SVPWM Based Interline Dynamic Voltage Restorer with Sag & Swell Limiting Functionâ€*, International Journal of Electronics Engineering Research (IJEER) , ISBN No. 0975- 6450 , Vol No.9 Number 5, pp.751-760, 2017
- > Dr.M.SUSHAMA Mr. G. Devadasu, *â€œHarmonics Identification Using FFT and harmonics Mitigation with Unit Vector Based APF for the Systems Connected to BLDC Drivesâ€*, International Journal of Electronics Engineering Research (IJEER) , ISBN No.0975- 6450, Vol No.Volume 9, Number 2, pp.281-292, 2017
- > Dr.M.SUSHAMA Mr. G. Devadasu, *â€œAccurate Detection of Harmonics due to Non Linear Loads in Power system Network using FFT Analysisâ€*, international Journal of Engineering Science & Research Technology (IJESRT), ISBN No.2277-9655, March , 2017
- > Dr.M.SUSHAMA Mr. G. Devadasu, *â€œVoltage sag and Swell Identification using FFT Analysis and Mitigation with DVRâ€*, IOSR Journal of Electrical & Electronics Engineering (IOSR-JEEE) , ISBN No.2278-1676, , Vol No.Vol 12, Issue 1Ver-III, pp.2278-1676, Feb, 2017
- > Dr.M.SUSHAMA Mrs.M.S.Priyadarshini, *â€œSelection of Mother Wavelet for Processing of Power Quality Disturbance Signals using Energy for Wavelet Packet Decomposition,â€*, International Journal of Pure and Applied Mathematics , ISBN No. 1314-3395, Vol No. 114, No.9, 2017
- > Dr. M.Sushama Mr. T.Rakesh, Dr. V.Madhusudhan, *â€œMLI Power Topologies and Voltage Eminence: An Exploratory Reviewâ€*, Indonesian Journal of Electrical Engineering and Informatics (IJEEI) , ISBN No.2089-3272, Vol No.Vol. 5, No. 1, pp.1-15, March, 2017
- > Dr. M.Sushama Mr. T.Rakesh, Dr. V.Madhusudhan, *â€œPower Quality Enrichment in 3P4W Electrical Distribution System by using FCMLI-DSTATCOM-TIES with Reliability Study*, International Electrical Engineering Journal , ISBN No. 2078-2365, Vol No.Vol. 7 , pp.2415-2432, 2017
- > Dr.M.SUSHAMA Mr.Ravindra Janga, *â€œDesign and Implementation of Digital Controller for Active Clamp Forward Converterâ€*, International Journal of Computer Aided Engineering and Technology, Inderscience Publishers, ISBN No.1757-2665, July, 2017
- > Dr.M.SUSHAMA Mr.Ravindra Janga, *â€œImprovement in Performance Evaluation of Active Clamp Forward Converter with Fuzzy Logic Controllerâ€*, International Journal of Current Research, ISBN No. 0975-833X., Vol No.Vol.9, Issue No.3, pp.47336-47342, March , 2017
- > Dr. M.Sushama Mr. T.Rakesh, Dr. V.Madhusudhan, *Distribution Systems Reliability Analysis with Power Quality issues and Neutral Currents Compensation Mistreatment MLI-DSTATCOM*, Journal on Circuits and Systems., March - May, 2016
- > Dr. M.Sushama Mr. T.Rakesh, Dr. V.Madhusudhan, *â€œMI Control of MLI DSTATCOM for Sag and Swell Enhancement in Power Distribution Systemâ€*, â€• International Electrical Engineering Journal (IEEJ), ISBN No.2078-2365, Vol No.Vol. 7 (2016) No.6, pp.2279-2285, SEPTEMBER, 2016
- > Dr. M.Sushama Mr. T.Rakesh, Dr. V.Madhusudhan, *â€œPretend Design Of A 9-Level & 27-Level MLIDSTATCOM For Reactive Power Compensation In PSâ€*, International Journal of Engineering Sciences & Research Technology, , ISBN No. 2277-9655IC, August, 2016
- > Dr.M.SUSHAMA Mr.Ravindra Janga, *â€œEvaluation of Various Digital Controllers for Forward Converter with Active Clamp*, International Journal of Electrical and Computer Engineering, , ISBN No. 2088-8708., Vol No.Vol.6, No.6, pp.2846-2854, December , 2016
- > Dr.M.SUSHAMA Dr.Ravindra Janga, *â€œDesign of Digital Current Mode Controller for Active Clamp Forward Converterâ€*, European Journal of Advances in Engineering and Technology, ISBN No. 2394-658X., Vol No. 3(5), pp.46-55, 2016
- > Dr. M.Sushama Mr. T.Rakesh, Dr. V.Madhusudhan, *â€œMLI-DSTATCOM Integrated With Distribution Transformer for Power Quality Enhancement in PDSâ€*, Vol No. 1, Issue No.1&2, pp.1-16, 2016
- > Dr. M.Sushama Mr. T.Rakesh, Dr. V.Madhusudhan, *â€œMLI-DSTATCOM Integrated With Distribution Transformer for Power Quality Enhancement in PDSâ€*, Vol No. 1, Issue No.1&2, pp.1-16, 2016
- > Dr. *Analysis and Design of a new frequency converter for dimming of discharge lamps*, International Journal of Electrical and Electronics Engineers (IJEEE), ISBN No.2321-2055, Vol No.07, Issue No.02, July-Dec, 2015
- > Dr.M. Sushama, Mr.S. Narasimha, *â€œAnalysis and Implementation of Buck Boost Voltage Source Inverters Using Hybrid Electric Vehiclesâ€*, International Journal of Science and Research , ISBN No.2319-7064., Issue No.Volume 4 Issue 1 , , pp.877-883, January, 2015
- > Dr.M. Sushama, Mr.S. Narasimha, *â€œDigital Control of Multi Level cascade Inverter with Variable DC Voltage Sourcesâ€*, Engineering Science and Technology,, ISBN No.0975-5462 , Vol No.Vol. 7 No.1 , January , 2015
- > Dr.M. Sushama, Mr.S. Narasimha, *â€œA novel Control Method for Improvement of Voltage Utilization Factor in Three-Phase Multilevel Inverter considering the Input Voltage Fluctuationâ€*, Global Journal Of Researches In Engineering (F), ISBN No.0975-5861, Vol No.Volume15 , Issue No.Issue3 Version 1.0 , 2015
- > Dr.M. Sushama, Mr.S. Narasimha, *Adaptive Control Method for Output Voltage of a Three-Phase Multilevel Inverter Considering for Fluctuation in DC Voltageâ€*, International Journal of Scientific & Engineering Research, , ISBN No.2229-5518, Vol No.Volume6 , Issue No. Issue4, pp.90-97, April , 2015
- > Dr.M. Sushama, Mr.S. Narasimha, *â€œAnalysis Of Superposition Ratio Control Method For The Improvement of Voltage Utilization Factor in Three Phase Multilevel Inverterâ€*, ARPN Journal of Engineering and Applied Sciences , ISBN No.1819-660 , Vol No.Volume10, No.14, pp.5838-5844, August , 2015
- > Dr.M. Sushama, Mr.S. Narasimha, *â€œThe Output Voltage Stabilization Of A 3-Phase Multilevel Inverter Considering Dc Voltage Fluctuations Using ANFISâ€*, International Journal of Electrical and Electronics Engineers , ISBN No.2321â€•2055, Vol No. Volume 7 No.02, July , 2015
- > *â€œAnalysis and design of a new frequency converter for dimming of discharge lampsâ€*, â€œAnalysis and design of a new frequency converter for dimming of discharge lampsâ€•, ISBN No.Vol. 7, july- dec, 2015
- > Dr.M. Sushama, Mrs.M.S.PRIYADARSHINI, *PERFORMANCE ANALYSIS OF THREE â€•PHASE THREE WIRE VOLTAGE SOURCE INVERTER BASED UNIFIED POWER QUALITY CONDITIONERâ€*, International Journal of electrical electronic AND DATA COMMUNICATION Engineering , Vol No.Vol. 3, FEB, 2015
- > Dr.M. Sushama, Ravindra Janga, *Root locus Based design of Digital Control Controller for Forward Converter with Active Clamp Circuit*, International Journal of Applied Engineering Research, ISBN No.0973-4562 (2015) , Vol No.Vol. 10 No.1, pp.20-25, 2015
- > Dr.M. Sushama, Mr. G.SRIDAR, *â€œPHASE DISPOSITION PWM TECHNIQUE FOR ELEVEN LEVEL CASCADED MULTILEVEL INVERTER WITH REDUCED NUMBER OF CARRIERS*, TELKOMNIKA INDONESIA JOURNAL OF ELECTRICAL ENGINEERING , Vol No.VOL:15 , JULY , 2015
- > Dr. M.Sushama Mr. T.Rakesh, Dr. V.Madhusudhan, *â€œAn Exploration of MLI Topology and Control Techniquesâ€*, International Electrical Engineering Journal (IEEJ) , ISBN No. 2078-2365, Vol No.Vol. 7 (2016) No.8, pp.2339-2346, 2015
- > Dr.M.SUSHAMA , *Protection and Control Challenges Of a Distributed Generation Injected Distribution Networks*, International Journal of Advanced Research In Electrical, Electronics and Instrumentation Engineering , ISBN No.2278-8875, Vol No.3, Issue No.11, Nov, 2014
- > Dr.M.SUSHAMA, *Protection Issues Of Power Systems with PV Systems Based Distributed Generation*, International Organization Of Scientific Research Community Of Researcher, Vol No.09, Issue No.03, May-June, 2014
- > *â€œPOWER QUALITY CLASSIFICATION BY FUZZY INFERENCE SYSTEM USING WAVELET, S AND Z â€•TRANSFORM TECHNIQUESâ€*, â€œINTERNATIONAL JOURNAL FOR APPLIED ENGINEERING AND RESEARCHâ€• (VOL. V) WITH PRINT ISSN NO: 0973-4562 AND ONLINE ISSN NO: 1087â€•1090.PP 1103-1108, ISBN No.1087â€•1090., Vol No.VOL. V), pp.1103-1108, 2014
- > SAINADH SINGH,M. ARUNA BHARATHI, Dr.M. Sushama, *LIBS/STATCOM WITH PSO BASED PI CONTROLLER FOR A GRID CONNECTED WIND ENERGY SYSTEM*, International Journal of Education and Applied Research [IJEAR], ISBN No.2348-0033 , Issue No.IJEAR VOL. 4, ISSUE SPL-1, JAN - JUNE , 2014
- > Dr.M. Sushama, Mr.S. Narasimha, *â€œControl Method for Improving the Voltage Utilization Factor of Multilevel Inverters Considering Co-Generation System Voltage Fluctuationâ€*, INTERNATIONAL JOURNAL OF ENGINEERING AND ADVANCED TECHNOLOGY, , ISSN: 2249 â€• 8958., ISBN No.2249 â€• 8958., pp.64-67, 2014
- > Dr.M. Sushama, Mr.S. Narasimha, *â€œDigital Control of A Multi Level Inverter To Improve Gain And Control Performanceâ€*, INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN ELECTRICAL, ELECTRONICS, INSTRUMENTATION AND CONTROL ENGINEERING, ISBN No.2321 â€• 5526, Issue No.VOL. 2, ISSUE 8 , , pp.1798-1804, 2014
- > Dr.M. Sushama, DR TULASI RAM DAS, *â€œCUSTOM POWER SOLUTIONS BY DVR, DSTATCOM & SSTCâ€*, INTELLIGENT SYSTEMS AND NETWORKS (IISN-08), FEB, 2008
- > Dr.M. Sushama, Dr.A. JAYA LAXMI, DR TULASI RAMDAS, *â€œMITIGATION OF VOLTAGE SAGS WITH DYNAMIC VOLTAGE RESTORER USING WAVELETSâ€*, RECENT ADVANCEMENTS AND APPLICATIONS OF COMPUTER IN ELECTRICAL ENGINEERING (RACE), MARCH , 2007
- > M. ARUNA BHARATHI, K. VENKATESWARA RAO, M. Dr.M. Sushama, *“SYNTHESIS, CHARACTERIZATION AND DENSITY FUNCTIONAL STUDY OF LIMN<sub>1.5</sub>NI<sub>0.5</sub>O<sub>4</sub> ELECTRODE FOR LITHIUM ION BATTERYâ€*, JOURNAL OF NANO AND ELECTRONIC PHYSICS., ISBN No. 01005, Vol No. VOL. 6 NO 1, pp.5
- > Dr.M.SUSHAMA Mr. G. Devadasu, *â€œFuzzy-PI Based DVR setup for alleviating of Voltage Dip and Voltage Swell Problems with Hardware comparisonâ€*, â€• Medwell Journals - Journal of Engineering and Applies Sciences (JEAS) , ISBN No.1818-7803 , Vol No.14, Issue No.4

## National Journals

-> Dr.M. Sushama, DR. A. JAYA LAXMI, DR. K. UMA RAO , N.TEJASRI DEVI, *Hardware Implementation of Single Phase Dynamic Voltage Restorer*, 16th NATIONAL POWER SYSTEMS CONFERENCE, DECEMBER, 2010

-

## International Conference

-> Dr.M. Sushama, S.Narasimha, *The Output Voltage Quality Of Three Phase Multilevel Inverters Considering Co generation Systems*, Science, Technology and Management, ICSTM-2015, Feb, 2015

-> Dr.M. Sushama, S.Narasimha, *A New Control Method for Output Voltage Control of A Three Phase Multilevel Inverter Using Adaptive Neuro Fuzzy Inference System*, Emerging Trends in Electrical Systems & Engineering (ICETESE-2015, July, 2015

-> Dr.M. Sushama, S.Narasimha, *A Control Method for Buck-Boost Voltages using Multilevel Inverters for Application of Hybrid Electric vehicle*, Emerging Trends in Science and Cutting Edge Technology, 2014

-> Dr.M. Sushama, J.RAVINDRA, *AVERAGE CURRENT MODE CONTROLLER APPLIED TO ACTIVE CLAMP FORWARD CONVERTER WITH CURRENT DOUBLER FULL-WAVE RECTIFIER*, IEEE ICARET , FEB, 2013

-> Dr.M. Sushama, J.RAVINDRA, *SMALL SIGNAL MODELING OF ACTIVE CLAMP FORWARD CONVERTER WITH AVERAGE CURRENT MODE CONTROLLER*, ICRDPET 2013 , MAR , 2013

-> Dr.M. Sushama, M.ARUNA BHARATHI, *SYNTHESIS AND CHARACTERIZATION OF LIMN1.5MG0.5 NANO COMPOSITE MATERIAL FOR ENERGY EFFICIENT GREEN BUILDINGS*, CSIR-CBRI-AME2B-2013 , FEB , 2013

-> Dr.M. Sushama, M.ARUNA BHARATHI, *NANO MATERIAL PROSPECTS OF LITHIUM ION BATTERY ELECTRODE FOR VEHICLE APPLICATIONS*, RECENT ADVANCES IN DESIGN DEVELOPMENT AND OPERATION OF MICRO AIR VEHICLES,ICRAMAV-2013, ISBN No.9789351071693, pp.426-433, 2013

-> Dr.M. Sushama, M. ARUNA BHARATHI, *STRUCTURAL AND ELECTRONIC PROPERTIES OF LIMN2O4 NANO MATERIAL FOR LITHIUM ION BATTERY*, COMPUTATIONAL CONDENSED MATTER PHYSICS AND MATERIALS SCIENCE(IWCCMP-2013),, NOV, 2013

-> Dr.M. Sushama, M. ARUNA BHARATHI, DR. K. VENKATESWARA RAO, *NANO STRUCTURED LIMN2O4 CATHODE MATERIALS OF LITHIUM ION BATTERIES FOR ENERGY STORAGE*, 3RD NANO TODAY , DEC , 2013

-> Dr.M. Sushama, S.Narasimha, *Direct Torque Controlled Permanent Magnet Synchronous Drive using Multilevel inverter Analysis*, Recent Advances in Design, Development and Operation of Micro Air Vehicles, November, 2013

-> Dr.M. Sushama, G. DEVADAS, *POWER QUALITY ANALYSIS AND FAULT DETECTION USING ADAPTIVE WAVELET NETWORK*, SMART TECHNOLOGIES FOR MATERIALS, COMMUNICATION, COMPUTING, CONTROLS & ENERGY –ICST, JAN , 2011

-> Dr.M. Sushama, A. JAYA LAXMI, *GENERALIZED PWM ALGORITHM FOR VSI FED INDUCTION MOTOR DRIVES BASED ON UNIQUE ZERO SEQUENCE SIGNAL OVER THE ENTIRE MODULATION REGION*, IEEE INDICON 2011, DEC , 2011

-> Dr.M. Sushama, DR TULASI RAM DAS, A. JAYA LAXMI, *CLASSIFICATION OF POWER QUALITY DISTURBANCES USING FUZZY EXPERT SYSTEM*, ADVANCES IN ENERGY CONVERSION TECHNOLOGIES (ICAECT 2010), JAN, 2010

-> Dr.M. Sushama, DR TULASI RAM DAS, A. JAYA LAXMI, *CONTROL AND DESIGN SIMULATION OF FOUR-LEG INVERTER FOR UPS APPLICATION*, INTELLIGENT SYSTEMS & NANOTECHNOLOGY (IISN-2010) HELD AT INSTITUTE OF SCIENCE AND TECHNOLOGY, KLAUAD (ISTK), FEB, 2010

-> Dr.M. Sushama,B. RAVINDHRANATH REDDY, DR. M. VIJAY KUMAR, DR. M.SURYA KALAVATHI, N.SANTOSH, *METHODOLOGY TO ESTIMATE THE AC POWER LOSSES*, SYSTEM DYNAMICS AND CONTROL –ICSDC , AUG , 2010

-> Dr.M. Sushama, M. SUBBAMMA, M.S. PRIYADARSHINI, DR. V. MADHUSUHAN., *WAVELET BASED PROTECTION SCHEMES FOR TEED TRANSMISSION CIRCUITS*, COMMUNICATION, COMPUTATION, CONTROL AND NANOTECHNOLOGY, OCT, 2010

-> Dr.M. Sushama, DR TULASI RAM DAS, A. JAYA LAXMI, *CLASSIFICATION OF POWER QUALITY DISTURBANCES USING FUZZY EXPERT SYSTEM*, ADVANCES IN ENERGY CONVERSION TECHNOLOGIES (ICAECT 2010), JAN , 2010

-> Dr.M. Sushama, DR TULASI RAM DAS, A. JAYA LAXMI, *CUSTOM POWER SOLUTIONS BY DVR, DSTATCOM & SSTC*, INTELLIGENT SYSTEMS AND NETWORKS (IISN-08) , FEB, 2008

-> Dr.M. Sushama, DR TULASI RAM DAS, A. JAYA LAXMI, K. CHANDANA, *CLASSIFICATION OF POWER SIGNAL DISTURBANCES USING WAVELET BASED NEURAL NETWORK*, (POWERCON-08), OCT, 2008

-> Dr.M. Sushama, Dr.A. JAYA LAXMI, DR TULASI RAM DAS, *DYNAMIC VOLTAGE RESTORER FOR MITIGATION OF VOLTAGE SAGS USING WAVELETS*, INTELLIGENT SYSTEMS AND NETWORKS (IISN-07), FEBRUARY, 2007

-> Dr.M. Sushama, CH. PRASANTH BABU, Dr.A. JAYA LAXMI, DR TULASI RAM DAS, *HIGH SPEED FAULT IDENTIFICATION IN AHVDC SYSTEM USING WAVELET MODULUS MAXIMA*, INDUSTRIAL AND INFORMATION SYSTEMS ( ICIIS2007), August , 2007

-> Dr.M. Sushama, CH. PRASANTH BABU, Dr.A. JAYA LAXMI, DR.TULASI RAM DAS, *FAULT IDENTIFICATION IN A HVDC SYSTEM USING WAVELET MODULUS MAXIMA*, MODELLING AND SIMULATION (MS'07) , December, 2007

-> Dr.M. Sushama, Dr.A.JAYA LAXMI, Dr.G.TULASI RAM DAS, K.UMA RAO, M.ARUNA BHARATHI, K.RAYUDU, *IMPROVING THE QUALITY OF POWER USING UPQC THROUGH WAVELET TRANSFORMS*, POWER SYSTEMS (ICPS), December, 2007

-> Dr.M. Sushama, Dr.A. JAYA LAXMI, DR TULASI RAM DAS, *DYNAMIC VOLTAGE RESTORER FOR MITIGATION OF VOLTAGE SAGS USING WAVELETS*, INTELLIGENT SYSTEMS AND NETWORKS (IISN-07), FEB., 2007

-> Dr.M. Sushama, Dr.A. JAYA LAXMI, DR TULASI RAMDAS, *MITIGATION OF VOLTAGE SAGS WITH DYNAMIC VOLTAGE RESTORER USING WAVELETS*, RECENT ADVANCEMENTS AND APPLICATIONS OF COMPUTER IN ELECTRICAL ENGINEERING (RACE), MARCH , 2007

**- , Events Participated/Organized**

**- Organized**

- > Organized a Conference on Finishing School on "PLC & Embedded Systems Hands on Training" under TEQUIP-II, Department of Electrical & Electronics Engineering, JNTUH College of Engineering, Kukatpally, Hyderabad., 11-03-2013 to 30-03-2013
- > Organized a Workshop on THREE DAYS WORK SHOP ON "HIGH VOLTAGE ENGINEERING", TEQUIP-II, 06-03-2013 to 08-03-2013
- > Organized a Workshop on Refresher Course on "High Voltage Testing & Measurements and GIS Substations", UGC-ASC, JNT University, Kukatpally, Hyderabad-85., 04-02-2013 to 23-02-2013
- > Organized a Refresher Course on Refresher Course on "High Voltage Testing & Measurements and GIS Substations", UGC-ASC, JNT University, Kukatpally, Hyderabad-85, 04-02-2013 to 23-02-2013
- > Organized a Workshop on ONE WEEK SHORT TERM COURSE ON "HIGH VOLTAGE TESTING & MEASUREMENT TECHNIQUES", UGC-ACADEMIC STAFF COLLEGE, JNTU, HYDERABAD., 31-10-2011 to 05-11-2011
- > Organized a Workshop on ONE WEEK SHORT TERM COURSE ON "HIGH VOLTAGE TESTING & MEASUREMENT TECHNIQUES", UGC-ACADEMIC STAFF COLLEGE, JNTU, HYDERABAD., 31-10-2011 to 05-11-2011
- > Organized a Workshop on Term Course on "High Voltage Testing & Measurement Techniques, UGC-ASC, JNT University, Kukatpally, Hyderabad-85., 19-09-2011 to 24-09-2011
- > Organized a Workshop on Short Term Course on "High Voltage Testing & Measurement Techniques", UGC-ASC, JNT University, Kukatpally, Hyderabad-85, 19-09-2011 to 24-09-2011
- > Organized a Workshop on "Recent Trends in Deregulation of Power Systems", UGC-ASC, JNT University, Kukatpally, Hyderabad-85., 13-06-2011 to 02-07-2011
- > Organized a Workshop on "Recent Trends in Deregulation of Power Systems", UGC-ASC, JNT University, Kukatpally, Hyderabad-85, 13-06-2011 to 02-07-2011
- > Organized a Workshop on ONE WEEK WORKSHOP ON "EFFECTIVE COMMUNICATION AND SOFT SKILLS FOR ACADEMICIANS", UGC-ASC, JNT UNIVERSITY, KUKATPALLY, HYDERABAD-85, 17-01-2011 to 22-01-2011
- > Organized a Workshop on SHORT TERM COURSE ON "E-LEARNING AND EFFECTIVE TEACHING, UGC-ACADEMIC STAFF COLLEGE, JNTU HYDERABAD., 24-09-2010 to 25-09-2010
- > Organized a Seminar on "Career training program on Electrical Power Systems and machines" under TEQIP, Department of Electrical & Electronics Engineering, JNTUH College of Engineering, Kukatpally, Hyderabad., 25-03-2009 to 26-03-2009
- > Organized a Training on "Save Power- Save Nation - Save Future" under TEQIP, Department of Electrical & Electronics Engineering, JNTUH College of Engineering, Kukatpally, Hyderabad., 24-03-2009 to 25-03-2009
- > Organized a Workshop on Advances in Power Electronics and their applications to drives and Power Systems, UGC-ASC, JNT University, Kukatpally, Hyderabad-85., 10-11-2008 to 29-11-2009
- > Organized a Workshop on Advances in Power Electronics and their applications to drives and Power Systems, UGC-ASC, JNT University, Kukatpally, Hyderabad-85, 10-11-2008 to 29-11-2008
- > Organized a Conference on WAS A CO-ORDINATOR OF STUDENT TECHNICAL PAPER PRESENTATION "PRAGNYA", JNTUCEH,

**- Co-ordinated**

- > Coordinated for a Training on *Community Services Program(CSP) on "Career Guidance in Electrical Engineering for Unemployed graduates" under TEQIP*, Department of Electrical & Electronics Engineering, JNTUH College of Engineering, Kukatpally, Hyderabad., 21-03-2009 to 24-03-2009
- > Coordinated for a Conference on *PRAGNYA 2019*, Department of Electrical & Electronics Engineering, JNTUH College of Engineering, Kukatpally, Hyderabad.,

**- Presented**

- > Presented a paper in *Control and Design Simulation of Four-Leg Inverter for UPS Application*, KLAWORD (ISTK)- Jagadhri ,Haryana (INDIA)., 26-02-2013 to 28-02-2013
- > Presented a paper in *Classification of power quality disturbances using fuzzy expert system*, MIT, Manipal, Karnataka. INDIA, 07-01-2010 to 19-01-2010
- > Presented a paper in *Classification of Power Signal Disturbances Using Wavelet Based Neural Network*, IIT Delhi, India, 12-10-2008 to 01-01-1970
- > Presented a paper in *Custom Power Solutions By DVR, Dstatcom & SSTC*, JAGADRI, Haryana, India, 23-02-2008 to 25-02-2008
- > Presented a paper in *Improving the Quality Of Power using UPQC Through Wavelet Transforms*, CPRI, Bangalore, India., 12-12-2007 to 14-12-2007
- > Presented a paper in *Mitigation of Voltage Sags with Dynamic Voltage Restorer Using Wavelets*, Bikaner, Rajasthan, India, 24-03-2007 to 25-03-2007
- > Presented a paper in *Dynamic Voltage Restorer for Mitigation of Voltage Sags Using Wavelets*, JAGADRI, Haryana, India, 23-02-2007 to 02-02-2007
- > Presented a paper in *Microgrids & Battery Energy Storage Systems*, Geethanjali College Of Engineering & Technology (GCET) Cheeryal, Hyderabad,

**- Resource Person**

- > Resource Person in a Seminar on *Free Coaching Programme for the APPSC*, Government Polytechnic Colleges, 20-11-2019 to 19-12-2012
- > Resource Person in a Conference on *International Conference on Recent Innovations in Electrical and Electronics Engineering*, Department of Electrical & Electronics Engineering, JNTUH College of Engineering, Kukatpally, Hyderabad., 29-12-2017 to 30-12-2017
- > Resource Person in a Conference on *International Conference On Emerging Trends in Engineering Technology and Science (ICETETS 2014)*, Malla Reddy Institute Of Engineering & Technology, Maisammaguda Rangareddy District, Secunderabad, T.S, 24-02-2014 to 25-02-2014

**- Participated**

- > Participated in a Workshop on *Workshop on NBA Accreditation (SAR Filling and Preparedness for Assessment)*, UGC HRD Auditorium JNTUH, Kukatpally , Hyderabad., 14-12-2017 to 16-12-2017
- > Participated in a Workshop on *INDO US ENGINEERING FACULTY LEADERSHIP INSTITUTE ON ELECTRIC ENERGY AND POWER*, GLOBAL EDUCATION CENTER, INFOSYS TECHNOLOGIES LTD., MYSORE, KARNATAKA., 07-07-2008 to 11-07-2008
- > Participated in a Conference on *High Speed Fault Identification in AHVDC System Using Wavelet modulus Maxima*, University of Peradeniya, Sri Lanka., 08-08-2007 to 11-08-2007
- > Participated in a Refresher Course on *ARTIFICIAL NEURAL NETWORKS*, ACADEMIC STAFF COLLEGE, JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD, 04-12-2006 to 23-12-2006
- > Participated in a Workshop on *VECTOR CONTROL OF INDUCTION MOTOR*, TEQIP HELD AT DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING, JNTU COLLEGE OF ENGINEERING, KUKATPALLY, HYDERABAD -72., 20-10-2005 to 22-10-2005
- > Participated in a Workshop on *INTRODUCTION TO ADVANCES IN MICROPROCESSORS*, INTEL INNOVATIVE EDUCATION & CVR COLLEGE OF ENGG., AT JNTU COLLEGE OF ENGINEERING, KUKATPALLY, HYDERABAD -72, 09-12-2002 to 13-12-2002
- > Participated in a Refresher Course on *ENERGY SYSTEMS*, ACADEMIC STAFF COLLEGE, JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD, 01-08-2001 to 21-08-2000
- > Participated in a Refresher Course on *RELIABILITY ENGINEERING AND APPLICATIONS TO POWER SYSTEMS (REAPS-2000)*, ISTE CHAPTER, JNTU COLLEGE OF ENGINEERING, ANANTAPUR., 11-12-2000 to 23-12-2000
- > Participated in a Refresher Course on *NUMERICAL METHODS WITH C FOR SCIENTISTS & ENGINEERS*, ISTE CHAPTER, JNTU COLLEGE OF ENGINEERING, ANANTAPUR., 26-03-1999 to 01-01-1970
- > Participated in a Refresher Course on *PROGRAMMING IN C++ AND DATA STRUCTURES*, ISTE CHAPTER, JNTU COLLEGE OF ENGINEERING, ANANTAPUR., 31-12-1997 to 29-01-1998
- > Participated in a Refresher Course on *INDUCTION TRAINING PROGRAMME*, ACADEMIC STAFF COLLEGE, BHARATHIAR UNIVERSITY, COIMBATORE-641 046., 15-05-1995 to 04-06-1995
- > Participated in a FDP on *MOOCS & Open Educational Resources*, JNTUH, 01-01-1970

**- , Adminstrative Positions Held**

- > Training and Placement Officer, JNTUH College of Engineering Hyderabad - Present
- > Chairperson of board of studies, JNTUH College of Engineering Hyderabad, 26 Apr 2019 - Present
- > In charge for computer lab "UG in EEE Dept, JNTUH College of Engineering Hyderabad, 01 Jun 2007 - Present
- > Coordinator, University Equal Opportunities Cell , JNTUH, JNTUH College of Engineering Hyderabad - Present
- > Head of the Department, JNTUH College of Engineering Hyderabad, 27 Sep 2012 - 30 Sep 2014
- > In charge for Microprocessors lab, JNTUCEA, 01 Jun 2004 - 30 Jun 2006
- > Deputy Warden for Shilpa Ladies hostel, JNTUCEA, 01 Jun 2001 - 30 Jun 2003
- > In charge for PG (Day Time Examinations & Project works allotment), JNTUH College of Engineering Hyderabad
- > Co-ordinator for M. Tech (PTPG) "EPS- GE (Energy)- under MOU with GE., JNTUH College of Engineering Hyderabad



- Students

Student Name	Title	Year	Download
CH.LOKESHWARA REDDY	INVESTIGATION AND IMPLEMENTATION OF CONTROL STRATEGIES FOR MULTI LEVEL INVERTERS	2018	
S.NARASIMHA	THE OUTPUT VOLTAGE CONTROL OF MULTILEVEL INVERTER CONSIDERING DC VOLTAGE FLUCTUATION	2016	
M.ARUNA BHARATHI	SYNTHESIS, CHARACTERIZATION AND COMPUTATIONAL ANALYSIS OF LITHIUM ION BATTERIES WITH NANO MATERIALS	2015	
Ganta. DEVA DAS	ANALYSIS OF POWER QUALITY DISTURBANCES USING FUZZY WAVENETS	0	
K.RAJENDER REDDY	DEVELOPMENT OF COMPENSATING TYPE CUSTOM POWER DEVICES FOR POWER QUALITY IMPROVEMENT	0	
M.NARENDER REDDY	DESIGN AND PERFORMANCE EVALUATION OF SOLAR PV BIOMASS/MSW HYBRID ENERGY SYSTEM	0	
M.NAGARAJU	POWER QUALITY IMPROVEMENT USING FACTS CONTROLLERS WITH THE AID OF HYBRID TECHNIQUE	0	
G. SRIDHAR	PERFORMANCE OF HIGH EFFICIENCY HIGH STEP-UP ZVS/ ZCS DC-DC SWITCHING CONVERTERS	0	
V.APARNA	METAHEURISTIC OPTIMIZATION ALGORITHMS BASED LOAD FREQUENCY CONTROL IN INTERCONNECTED POWER SYSTEM	0	

Contact :

**Dr. Malaji Sushama**

Electrical & Electronics Engineering

Official Email: [m73sushama@jntuh.ac.in](mailto:m73sushama@jntuh.ac.in)

Alternate Email: [m73sushama@jntuh.ac.in](mailto:m73sushama@jntuh.ac.in)

Phone: 040-23057469