

National Conference on Electrical Engineering and Embedded Systems NCEEE'08
Conference Schedule
Thursday 20th March 2008

Time	Events
08.30 a.m. – 09.30 a.m.	Registration
09.30 a.m. – 10.00 a.m.	Inauguration
10.00 a.m. – 10.15 a.m.	Tea Break
10.15 a.m. – 10.45 a.m.	Keynote Address by Mr. Sundaresh, Director, CVRDE, Avadi
10.45 a.m. – 11.15 a.m.	Special Address on Image Exploitation Dr.Jharna Majumdar, Professor,Dept. of CSE, EPCET, Bangalore
11.15 a.m. – 01.15 a.m.	Tutorial – I, Dr. Vikrant Joshi, DGM, Crompton Greaves, Bombay
01.15 p.m. – 02.00 p.m.	Lunch
02.00 p.m. – 04.00 p.m.	Tutorial – II, Dr. Vikrant Joshi, DGM, Crompton Greaves, Bombay
04.00 p.m. – 05.00 p.m.	Paper Session - I

**NCEEE'08
Conference Schedule
Friday 21st March 2008**

Time	Events
08.30 a.m. – 10.00 a.m.	Tutorial – III, Dr. S.Gopal, Executive Director, WS Test Systems Pvt. Ltd. Bangalore.
10.00 a.m. – 10.15 a.m.	Tea Break
10.15 a.m. – 11.30 a.m.	Paper Session - II
11.30 a.m. – 01.15 a.m.	Paper Session - III
01.15 p.m. – 02.00 p.m.	Lunch
02.00 p.m. – 03.00 p.m.	Paper Session – IV
03.00 p.m. – 04.30 p.m.	Tutorial – IV, Dr.Balasubramanian, Professor, IITD
04.30 p.m. – 05.00 p.m.	Valedictory Function

Detailed Session Plan

Session 1A. 20.03.08 Thursday, 04.00 p.m. – 05.00 p.m.		Control and Instrumentation
Venue: Conference Hall, High Voltage Engg. Division		
Chair Persons	1. Prof.G.T.Manohar, Former-Prof , IIT Madras 2. Dr.R.C.Panda, Scientist, CLRI 3. Dr.J.Prakash, Asst. Prof . MIT	
System Modeling and Controller Design		
CI1A.1	Development of an Intelligent Optimization Algorithm through a colony of ants and it's Application to D.C motor speed controller design	K.Sundareswaran, H.N.Shyam, V.Krishna Chandran, O.V.Asokan,C.Ismayil, S.Palani
CI1A.2	A tutorial on fractional order controller	S.Narayanan
CI1A.3	LMI based digital redesign technique for servo controller design problem	R.Vijayakumar, K.Ramakrishnan, B.Geethalakshmi
CI1A.4	FPGA implementation of fixed point self tuning regulator	Arun.T, J.Kamala
CI1A.5	Output regulation of the van der pol oscillator	V.Sundarapandian

Session 1B. 20.03.08 Thursday, 04.00 p.m. – 05.00 p.m.		Machines and Drives
Venue: Conference Hall, Electrical Engg. Laboratory		
Chair Persons	1. Dr.R.Arumugam Prof. SSN Engg College. 2. Dr.S.S.Yegnanarayanan.Former-Prof/IIT Madras 3. Dr.VedamSubramanyam Former-Prof/IIT Madras	
Electrical Machines and drives		
MD1B.1	Design And Simulation Of Energy Efficient Converter For Switched Reluctance Motor	D.PrinceWinston, N.Rathinaprabha
MD1B.2	Simulation of flux switching Motor	S.Abirami I.Ganambal
MD1B.3	Sensor based speed control of BLDC motor	T.Jeyasutha
MD1B.4	Intelligent control by fuzzy logic- An approach to solve the complications in control of SRM Drive	Dharmarajan.M.
MD1B.5	Vector Control of Induction Motor Using Sine PWM Two Level Inverter	K. Paranjothi

Session 1C. 20.03.08 Thursday, 04.00 p.m. – 05.00 p.m.		Embedded System Technologies
Venue: Seminar Hall, Power Systems Engg. Division		
Chair Persons	1. Dr.Aravindhnan Prof. / SSN Engg. College 2. Dr.Rhymond Uthiararaj , Director/RCC 3. Mr.Vijayarajeswaran., MD-VI Micro Systems	
Embedded System Application and Reconfigurable Architecture		
ES1C.1	Intelligent maximum demand control using IEEE 802.15.4 transceivers	Jayaparvathy.R, Vasu. C.L
ES1C.2	Tele-Operated Closed Loop Control of DC Motor Using RT Linux	N.R. Rajalakshmi
ES1C.3	FPGA Implementation of The Triple-DES Encryption Algorithm	K.Marry Ann, N.Ramadass
ES1C.4	Prevention Of Cache Consistency Attacks In Adhoc Network	P.Anitha , M.S.Chitra
ES1C.5	Collaborative intrusion deduction system (CIDS) for detecting novel attacks over anomalous internet episodes.	Pushparaj.R A.Sathish S.Bhuvana.
ES1C.6	Packet classification for network processors in WSN traffic using ANN	R.Rajkamal A.Senthil Murugan
ES1C.7	Introduction to AUTOSAR & Integration of External software components in AUTOSAR ECUs	R.Vinoth Ram
ES1C.8	Wireless Network Of Remote Can Segments	M.Vanitha

Session 2A. 21.03.08 Friday, 10.15 a.m. – 11.30 a.m.		High Voltage Engineering
Venue: Seminar Hall, Power Systems Engg. Division		
Chair Persons	1. Dr.M.A.PaneerSelvam, Principal , Jerusalem Engg. College. 2. Dr.S.Gopal Executive Director, W.S. Test Systems Pvt Ltd. Bangalore 3..Dr.Joy Thomas, Prof. IISC Bangalore	
Insulating Materials and Diagnostic Methods		
HV2A.1	Superconductor technology for the design and development of power transformer	Ramakichenan V, Dr.Manglesh Dixit, Sumendh Pawar, Mahesh Sathe, Dr.Rajendra Jaiswal, S.Saravanan, Antony M Lobo, K.Baburao
HV2A.2	Epoxy-Layered Silicate Nano Dielectric for Outdoor High Voltage Insulators.	M.Mahendran, R.Raja Prabu, S.S.M Abdul Majeed
HV2A.3	Characteristics of insulating materials at cryogenic temperature	M.Yuvarajan, K.Udayakumar
HV2A.4	Performance of Silicone Rubber Aged by Gamma Irradiation	V.Rajini, K.Udaya Kumar

HV2A.5	Review of ageing process and measurement technique of cellulose Insulation.	Ilampoornan M.K S.R.Kannan Jayashankar V.
HV2A.6	Investigations on Flashover Performance of Porcelain Insulators under Contaminated Conditions	S.Chandrasekar, K.KrishnamoorthiM.P anneerselvam C.Kalaivanan
HV2A.7	Analysis of Partial Discharge activity in GIS under DC voltage using UHF technique adopting wavelets.	R.sarathi, R.Umamaheswari

Session 2B 21.03.08 Friday, 10.15 a.m. – 11.30 a.m.		Power Electronics
Venue: Conference Hall, Electrical Engg. Laboratory		
Chair Persons	1. Dr.C.Chellamuthu Former Prof A.U. 2. Mrs. Jayashree Sivakumar, Scientist, CVRDE	
Power Quality		
PE2B.1	A Novel Unity Power Factor Input Stage With Resonant Dc Link Inverter For Ac Drives	G.T.Sundar Rajan S.Deve Gowda
PE2B.2	Space Vector PWM Controlled Shunt Active Power Filter for Power Conditioning	Kalyan, J.V. Amudhavani. M.C.
PE2B.3	Low cost embedded AC/DC Converter with harmonic current correction	Dr.S.Hosimin Thilagar, S.Udayakumar
PE2B.4	Modeling and Simulation of Unified Series Shunt Compensator.	M.P.Selvan, S. Sahaya Elsi
PE2B.5	Analysis of power Oscillation Damping using UPSC in a SMIB system.	D.Aravindan. G.Saravana Ilango C.Nagamani.
PE2B.6	Digital Signal Processor based Control Scheme for Utility inter Connected Photo-Voltaic Inverter for Power generation	M.Vetri Selvi, Z V Lakaparampil B. Sree Kumari

Session 2C. 21.03.08 Friday, 10.15 – 11.30 a.m.		Power Systems
Venue: Conference Hall, High Voltage Engg. Division		
Chair Persons	1.Dr.S.R.Paranjothi, Dean/Rajalakshmi Engg. College. 2.Dr.K.Kuppuswamy Principal/ Prathuyusa Engg. College 3.Dr.Thiruvengadam Dean/ SVCE	
Power System Dynamics, Modeling and Stability		
PS2C.1	Robust design of Power System Stabilizers using particle swarm optimization	S.Kalpana M.Venkatakirthiga
PS2C.2	Improved RPG Based Real Power Scheduling For Improvement Of Voltage Stability And Angular Stability	D. Sathaiah, E. Akila,
PS2C.3	Over voltage phenomena in tamilnadu electricity grid - interesting case studies.	V.Sankara Narayanan, Dr. P.Valsalal
PS2C.4	Mitigation of Chaotic Electromechanical oscillations in a fundamental Power System Model using GA tuned TCSCPODC	D.Padma Subramaniam, R.P.Kumudhini devi

Session 3A 21.03.08 Friday, 11.30 – 01.15 a.m. Venue: Seminar Hall, Power Systems Engg. Division		High Voltage Engineering
Chair Persons	1. Dr.M.A.PaneerSelvam, Principal , Jerusalem Engg. College. 2. Dr.S.Gopal Executive Director, W.S. Test Systems Pvt Ltd. Bangalore 3..Dr.Joy Thomas, Prof. IISC Bangalore	
Insulating Materials and Diagnostic Methods		
HV3A.8	Analysis of Surface Tracking of Outdoor Polymeric insulators using S-Transform.	S.Prabhu, S.Karthikeyan, K.Satheeshkumar, S.Chandrasekar R.Sarathi
HV3A.9	Condition Monitoring of Power Transformer- A case study	A.Santhosh Kumar, Ramprakash, P.Gupta, A.Venkatasami, T.P Govindan, K.Udayakumar

Electromagnetic Field Computation and modeling		
HV3A.10	Study on transient behaviour of CCVT	P.Arunkumar, V.Gowrisree
HV3A.11	Transmission line model of transformer winding for very fast transient	S.Daisy Flora, S.Usa
HV3A.12	Transient response of transformer winding for VFTO	S.P.Balaji, V.Jeyabalan, S.Usa
HV3A.13	Analysis of a High Voltage High Power Axisymmetric Electron Beam Welding Gun	Y.Dinesh, M.Deepak, K.Arunlal

High Field applications and others		
HV3A.14	Elimination of <i>Saccharomyces cerevisiae</i> in liquid using pulsed electric fields(PEF).	M.Kalyani, R. Sarathi T.Panda
HV3A.15	Water Processing by High intensity pulsed Electric Fields.	S.Harinath, V.Gowri Sree
HV3A.16	Application of High voltage in textiles	K.Pavithra, V.Divya, T.Geetha Meeenakshi, D.Kanchana.
HV3A.17	Decreased Charge delivery and the effects of Discrete Bypass Capacitors in the Power/Ground planes with Electromagnetic Bandgap Structures	S.Mohamad Dawood Farzan
HV3A.18	Uprating of Overhead Lines	S.Venkatesan, A.Haddad H.Griffiths, N.Harid

Session 3B 21.03.08 Friday, 11.30 – 01.15 p.m.		Power Electronics
Venue: Conference Hall, Electrical Engg. Laboratory		
Chair Persons	1. Dr.Chellamuthu Former Prof A.U. 2. Mrs. Jayashree Sivakumar, Scientist, CVRDE	
Converters		
PE3B.7	Single Phase Matrix Converter with Improved performance	R.Geetha, G.Uma
PE3B.8	Realization of Decoder circuit for SVPWM based Matrix Converter	R.Sanathi, G.Uma
PE3B.9	Sensorless current control of Buck Converter	E.Karpagavalli K.R.Santha
PE3B.10	Design of two step hybrid posicast compensator for DC-DC converter.	Dr. P. Lakshmi K.UdhayaKumar Rebath Aron.P.K
PE3B.11	Control of chaos in Cuk converter by Resonant Parametric Perturbation	R.Manimozhi, A.Kavitha,
PE3B.12	Control of Chaos in SEPIC dc-dc Converter	G.Indira, A.Kavitha,

PE3B.13	Development of multimedia based Self Learning tool for power Electronics Circuits	R.Siva anand , Dr.Hosimin Thilagar, P.Sivakumar
PE3B.14	A Neuro Fuzzy Controller for Boost Converter.	M.Shangeetha S.Thangavel.
PE3B.15	Design of high frequency AC chopper with improved performance.	S.Rakkammal, T.Santhana Krishnan
PE3B.16	Analysis and Stabilisation of Non Linear Dynamics in DC Drives	L.Premalatha P.Vanja Ranjan

Session 3C. 21.03.08 Friday, 11.30 – 01.15 p.m.		Power Systems
Venue: Conference Hall, High Voltage Engg. Division		
Chair Persons	1.Dr.S.R.Paranjothi, Dean/Rajalakshmi Engg. College. 2.Dr.K.Kuppuswamy Principal/ Prathuyusa Engg. College 3.Dr.Thiruvengadam Dean/ SVCE	
Power Quality		
PS3C.5	Current Trends in Energy Conservation Through stand by Power Reduction	V.Arulalan, S.Prakash
PS3C.6	PSO based control of a Power Quality Conditioner using UPFC	S.Aruna Devi Anu R.Krishnan
PS3C.7	Communications System For Substation Using IEDs, UCA and IEC 61850	Ankit R. Patel , Moloy P. Das , Manoj S. Patel
PS3C.8	A Novel Method For Optimal Location Of Voltage Regulators in Radial Distribution Systems	S.Lakshmi, N.Visali, Dr.S.Sivanagaraju, Dr.V.Sankar
PS3C.9	Optimal Location and Sizing of Distributed Generator Units in Power Systems	Arunkumar, N Kirthiga, M.V

Power System Operation, Control and Optimization		
PS3C.10	A Combined Genetic Algorithm-Sugeno Fuzzy approach for PID controller tuning in Automatic Voltage Regulator system	B.Selvabala , Dr.D.Devaraj.
PS3C.11	Unit Commitment using Ant Colony Optimization Technique	P.Tamizharasi
PS3C.12	Fuzzy Implemented Stochastic Algorithms for Multi-Area DC Optimal Power Flow	Devesh Raj. M, Prasanna. T.S Somasundaram. P
PS3C.13	A Comprehensive Solution Scheme for Congestion management in Deregulated Environment	Devendran E. Ramesh Babu.M Soma Sundaram.P

Session 4A. 21.03.08 Friday, 02.00 – 03.00 p.m. Venue: Conference Hall, High Voltage Engg. Division		Control And Instrumentation
Chair Persons	3. Dr.P.Kannagasabapathy, Dean MIT 2. Dr.P.A. Janaki Raman, Prof., IIT Madras 1. Dr.M.C.Vaithyalingam. Prof. SSN Engg. College	
Instrumentation Engineering		
CI4A.7	Design and implementation of cost effective real time data acquisition system for robotic applications	Prabhakar Mishra, H.N.Shankar, Sameera Bharadwaj, Sumanth Kubair, Jayesh Bhat
CI4A.8	A pc based architecture for the control of SCARA robust using a visual feed back.	S.Annamalai
CI4A.9	Neural network based dedicated observer with simple statistical method for sensor fault detection and isolation of continuous stirred tank reactor	U.Saburabanu, G.Uma
CI4A.10	Cardiac Arrhythmia Detection and Classification Based on Warped Discrete Cosine Transform Cepstrum	H.N.Shankar, Muralisankar. S,Snadeer S shenoy
CI4A.11	SPIHT Image Compression on FPGAs	Dilip Kumar .V
CI4A.12	Performance improvement of MC-CDMA through Turbo Multi-User Detection with Unknown Inferences	Rasadurai.K

Session 4B. 21.03.08 Friday 02.00 – 03.00 p.m.		Machines & Drives
Venue: Conference Hall, Electrical Engg. Laboratory		
Chair Persons	1. Dr.G.Sridhara Rao, Former Prof/IIT Madras 2. Mr.Sriraman, HOD-EEE/ A.M.S.Engg. Colloege	
Modeling, Analysis and Control of Electrical Machines		
MD4B.6	Short circuit reactance calculation of zig-zag winding transformers	E.Ramasamy Vikrant Joshi
MD4B.7	Axial flux machines for renewable energy applications	Mala K, Ritesh Y, Geetha T, Krishna V, Jayashankar V
MD4B.8	Field weakening control of permanent magnet synchronous motors drive system-Modelling and simulation	B.chitti babu, K.B.Mohanty, C.Poongothai
MD4B.9	A Protection Scheme for Three-Phase Induction Machine from Incipient Faults using Embedded Controller.	J.Thiyagarajan, M.Sudha , P.Anbalagan
MD4B.10	Design and Implementation of Common mode EMI Filter for an inverter fed Induction Motor	Dilip Kumar .V

Session 4C 21.03.08 Friday, 02.00 – 03.00 p.m. Venue: Seminar Hall, Power Systems Engg. Division		Embedded System Technologies
Chair Persons	1.Dr.Arunachallam, Appadurai chair- TNEB 2.Prof. S. Shanmugavel, ECE Dept. CEG 3.Dr.Narayanasamy.HOD-CSE/CEG	
Wireless Network Security and Embedded RTOS		
ES4C.11	Blocking Based PPDM Approach For Energy Usage Knowledge Management	J.Indumathi
ES4C.12	Digital watermarking at HDL level for IP protection of CIC filter core	C.Gomathi R.Ramesh
ES4C.13	Integrated Emergency Response System Using Wireless Embedded System	R. Venkatesh G. Loganathan K.B.S. Saranya
ES4C.14	Improving T C P performance in mobile adhoc networks	Sathya .P.Anitha
ES4C.15	Industrial general purpose real-time controller	S.Senthil kumar, K. Narayanan
ES4C.16	CESAR-automotive embedded software development approach	Ashok.G Ramya.R

Venue: Electrical Engineering Laboratory, Friday 21.03.08 11.00-12.00		POSTER SESSION
CI5P.1	Robust Biometric Image Watermarking Using TMS320c6711	K.B.Sathyasheela, D.Pradeepkannan, A.Thangaraj
CI5P.2	Efficient performance analysis for multidisciplinary robust control design	M.Meenakshi
MD5P.3	Simplified Topology For Single-Phase To Three-Phase Conversion For Induction Motor Drive Using A Single-Phase Half-Bridge PWM Boost Rectifier and a Three-Leg Inverter	A.Mary Beula , S.Mageshwari and S.Senthil Kumar
MD5P.4	Space Vector PWM based Dual inverter fed open end winding induction motor with isolated power supplies	Varaprasad Sirra, C.S. Sharma
PS5P.5	Prospects of Offline and Online Analyses of Power Quality	P.Chandrasekar, V.Kamaraj
HV5P.6	Breakdown Characteristics of Transformer under Non-Standard Impulse Voltages	J.Dhayalan, K. Udayakumar
HV5P.7	A Study on Electric Field Effects on Cardiac Muscle	Kayalvizhi.V, GowriSree.V
HV5P.8	Electric Field Effects on Tumor cell	Priyadharsini. A, GowriSree.V

Venue: Electrical Engineering Laboratory, Friday 21.03.08 11.00-12.00		POSTER SESSION
ES5P.9	Implementation of Hybrid Time Synchronization algorithm for Wireless Ad-hoc Sensor	P.Vetrivelan, P.Vanaja Ranjan and M.Ramakrishnan
ES5P.10	Energy efficiency query processing in wireless sense network.	Poongodi
ES5P.11	Modeling Int detection system using Intelligent	Sathish, T.P.Saravanabava
ES5P.12	Localization of wireless sensor network	K.Subaashini
ES5P.13	SPIHT Image Compression on FPGAs	Dilip Kumar .V
ES5P.14	Performance improvement of MC-CDMA through Turbo Multi-User Detection with Unknown Inferences	Rasadurai.K
ES5P.15	Multichannel MAC Protocol for Wireless Sensor Network	C.Meenakshi, M.Ramakrishnan

Venue: Electrical Engineering Laboratory, Friday 21.03.08 11.00-12.00		POSTER SESSION
PE5P.16	Modelling and Simulation of a Single Phase Matrix Converter as a direct AC-AC converter synthesized using sinusoidal pulse width modulation with non linear load	K.Rameez raja, E.Magesh Kumar, A.K.Hafeezur Rahman
PE5P.17	A simple low loss VRM for Processor Application	N.Senthil murugan Sundar raman
PE5P.18	Digitally Controlled scheme for UPS Inverter with reduced THD	D.Rajalakshmi R.Bharathi
PE5P.19	An Active Power Factor Correction Technique for Single phase induction motor	A.Balaji, B.V.Manikandan
PE5P.20	Analysis and control of chaos in a current mode controlled buck boost converter using O-G-Y method	A.Rajalakshmi, A.Kavitha, G.Uma
PE5P.21	Simulation of Hybrid Wind Micro Turbine Generation System	Vivek.V , C.Chellamuthu
PE5P.22	A new ZVS bidirectional dc- dc converter for fuel cell and battery application	K.Subba Reddy, R.Padmavathi
PE5P.23	Boost current multilevel inverter and its application on	N.Soundiraraj,

	single phase grid connected photovoltaic systems	S.Selvakumaran
PE5P.24	Optimal Switching Pattern Generation for Pulse Width modulated Three Phase Inverter using Neural Network	R.Senthil Kumar, N.Senthil Kumar