

2<sup>nd</sup> NATIONAL CONFERENCE ON  
POWER ELECTRONICS & INTELLIGENT  
CONTROL



Sept 13-14, 2008



**REGISTRATION FORM**

1. Full Name: .....
- .....
2. Designation: .....
3. Department: .....
4. Organization: .....
5. Address for Correspondence  
.....  
.....  
.....
6. Phone No.: .....
7. Fax No.: .....
8. E-Mail: .....
9. Type of participation:  
Paper Presentation/Participation
10. Accommodation Required:  
Yes/No .....
11. Details of Registration Fee:  
Amount: ..... DD No.....  
Bank: ..... Date: .....

Place:

Date: Signature

Note: The form can also be downloaded from the website.

**ACCOMMODATION**

Accommodation for pre-registered delegates can be arranged in hotel on request. The delegates will have to bear the expenses. The participants should clearly indicate their requirement in registration form. The hostel/guest house charges at MNIT may range from Rs. 150-500 per day.

**REGISTRATION FEES**

Please fill up the enclosed registration form and send it to the Convener. The registration fee details are given below:

Participant from academic Institutes – Rs. 1500  
Participant from R&D & Industries – Rs. 2000  
Research scholars/ Students – Rs. 750

The applicant should send a Demand Draft of appropriate amount payable at **Jaipur** in favour of **convener, NCPEIC-08**.

**PROGRAMME AT A GLANCE**

Venue: Malaviya National Institute of Technology

Title	Date	Time
Registration	Sept.13, 2008	09:00 a.m.
Inauguration	Sept.13, 2008	10.00 a.m.
Exhibition	Sept.13, 2008	11.00 a.m.
First session	Sept.13, 2008	02.00 p.m.
Second session	Sept.13, 2008	02.00 p.m.
Third session	Sept.14, 2008	09.00 a.m.
Fourth session	Sept.14, 2008	09.00 a.m.
Fifth session	Sept.14, 2008	11.00 a.m.
Sixth session and Valedictory Function	Sept.14, 2008	02.00 p.m.

**MAILING ADDRESS**

All correspondence including submission of paper should be addressed to:

**Dr. Rajesh Kumar and Dr. H.P. Tiwari**

Department of Electrical Engineering  
Malaviya National Institute of Technology, Jaipur

Phone : +91-9413301134, 9950092307  
Fax : + 91-141-2529028-29  
E-Mail : ncpeic\_2007@yahoo.co.in  
harpaltiwari@yahoo.co.in  
Website : [www.mnit.ac.in](http://www.mnit.ac.in)

**ADVISORY COMMITTEE**

Prof. S P Gupta, IITR  
Prof. Bhim Singh, IITD  
Prof. H O Gupta, IITR  
Prof. S S Moorthy, IITD  
Prof. D P Kothari, IITD  
Prof. Pramod Kumar, DCE  
Prof. A.P. Mittal, NSIT(D)  
Prof. H.M. Suryawanshi, VNIT, Nagpur  
Prof. Saroj Ragnaekar, NIT Bhopal  
Prof. Gayatri Agnihotry, NIT Bhopal  
Prof. D M Despande, NIT Bhopal

**ORGANIZING COMMITTEE**

Prof. R. A. Gupta  
Prof. Mool Singh  
Prof. C. M. Arora  
Prof. K. R. Niyazi  
Sh. Ashok Agarwal  
Dr. Vikas Gupta  
Mr. V S Pareek  
Ms. Nikita Jhajhania  
Mr. V K Jain  
Dr. H P Tiwari  
Dr. Manoj Fauzdar  
Mr. Praveen Agarwal  
Dr. Rajesh Kumar  
Mr. Mukesh Shah  
Mr. Nikhil Gupta  
Mr. Rajeev Tiwari  
Ms. Purna Jain  
Mr. Anil Swarnkar  
Ms. Kusum Dangi

NOTE: Please note that a paper will be considered for its publication and presentation in the conference only when it conforms to the format of IEEE Transactions.

2<sup>nd</sup> NATIONAL CONFERENCE  
ON  
POWER ELECTRONICS  
&  
INTELLIGENT CONTROL

September 13-14, 2008



NCPEIC 08

**CHAIRMAN**

**Prof. R. A. Gupta**  
Dean, Faculty  
Affairs, MNIT  
Jaipur

**PATRON**

**Prof. R P Dahiya**  
Director, MNIT  
Jaipur

**CONVENER**

**Dr. H. P. Tiwari**

**ORGANIZING SECRETARY**

**Dr. Rajesh Kumar**

**ORGANIZED BY**

Department  
of  
Electrical Engineering



Malaviya National Institute of Technology Jaipur  
India

## ABOUT JAIPUR

Jaipur, the capital of Rajasthan State, is popularly known as THE PINK CITY of India. The city is surrounded by Aravali hills. It has many forts and crenellated walls and numerous other monuments, which have been interest from time immemorial. Jaipur derives its name from Sawai Jai Singh II, King, soldier and astronomer who built the city in 1727. The city was laid down in rectangular fashion with a grid system encircled by a fortified wall according to the principles of town planning laid down in the "Shilpa Shastra", the ancient Hindu treatise on architecture. The result was an impeccably planned city at a time when a few planned cities existed, even in Europe. Jaipur is well connected with other parts of State and the rest of India by air, rail and road. AIR- Indian Airlines and other private airlines connects Jaipur to Delhi, Bombay Aurangabad, Jodhpur and Udaipur. Sanganer airport is 5 km. from the institute. RAIL- Jaipur is directly connected with Delhi, Bombay, Howrah, Chandigarh, Agra, Ahmedabad, Aurangabad, Jammu, Hyderabad, Indore Lucknow and all important cities of Rajasthan. ROAD- Rajasthan State Roadways Transport Corporation operates regular buses from all-important cities of Rajasthan and other cities of neighboring States and at a distance of 250 kms. from Delhi, the capital of India.

## ABOUT MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY

The Malaviya National Institute of Technology (MNIT), Jaipur is one of the centre of Excellence in the country established by the MHRD, Government of India. The Institute formerly known as Malaviya Regional Engineering College was established in the year 1962, as a joint venture of the Government of India and Government of Rajasthan. In 1963, the college started functioning from its temporary campus at Piloni and admitted 30 students each in Electrical Engg. and Mechanical Engg. The college moved to the present campus to Jaipur in 1965. The college was inspired by the great educationist and freedom fighter Pt. Madan Mohan Malaviya and thus named as The Malaviya Regional Engineering College. Prof. V.G. Garde, the great educationist and visionary, was the first Principal to nurture this college into a world renowned Institution. At present, the Institute offers nine undergraduate courses of study leading to the B. Tech. degree in Chemical, Civil, Computer, Electrical, Electronics & Communication, Information Technology, Mechanical and Metallurgical Engineering and 5 year Bachelor of Architecture degree course with over 2100 students. There are nine PG specializations besides doctoral programs with over 300 students. There are over 190 highly motivated, young and dynamic faculty members engaged in teaching and research. The Institute got the status of National Institute of Technology and Deemed University on June 26, 2002. The Institute is now governed by the Ministry of Human Resource and Development, Govt. of India, New Delhi.

## ABOUT ELECTRICAL DEPARTMENT

The Department was established in the year 1963 with an undergraduate course. At present the department offers both undergraduate and postgraduate Courses in Electrical Engineering. The Department has well equipped laboratories such as Electrical Machine laboratory, Power System Laboratory, Power Electronics and Drives Laboratory, Control laboratory, Measurement laboratory, Electrical workshop & Computer laboratory. The Department has undertaken a number of research projects/schemes with the financial assistance from AICTE, DST and MHRD. The Department is engaged in research, consultancy and testing in the area of power engineering.

## THEME

This conference will provide the perfect forum for Power Engineering and intelligent control Professionals and Academic Researchers to exchange up to date knowledge, experiences and views on key areas. It has attracted academicians, industrialists, researchers and technicians in relevant field to discuss together their ideas and experiences. State-of-art lecturers by experts in the field and papers from practicing engineers and researchers will be presented in various sessions in the areas of Analysis, Design and Control Electrical Machines and Drives, Industrial Drives, Traction & Electric Vehicle Drives, Conventional Motors, Advanced Electrical Machines like Permanent Magnet Brushless DC (PM BLDC) Motors and Switched Reluctance Motors, Small and Special Electrical Machines, AC/DC & AC/AC Converters, PWM & DC/DC converters, Topology & Control of Power Electronic Converters, Active Filters and VAR Compensation Schemes, Simulation of Power Electronics Converters and Drives, Power Quality, Non-Conventional, Distributed & Co-Generation, UPS & Battery Energy Storage Systems, Application of Neural Networks and fuzzy Logic Systems, Numerical Methods for Performance Prediction of Electrical Machines, Drives and Power Systems, and Testing and Condition Monitoring.

## OBJECTIVES

This conference aims at bringing together, the researchers associated with decision making, in the fields of computer science, mathematics, engineering management, finance, medical and other allied scientific disciplines. Also it will provide a platform for sharing of views on latest information in their emerging field of research. The aim of organizers is to bring up professional discussions of technical themes on current issues and trends of power electronics and intelligent control to provide the educational platform and to assure dissemination of the new knowledge to the participants. The Conference will seek to draw together researchers, designers and end users from a wide range of backgrounds to share insights and

perspectives on increasingly important areas of research and advancements, interlaid, in the power electronics and drives systems, computational intelligence and control. The event should also give the opportunity to manufacturers, power (electronics) systems to gain access to the state of the art of the new knowledge and trends in today's fast developing market.

## TOPICS TO BE COVERED

A few typical areas of interest for this conference are listed below:

- Æ Power converters
- Æ Control of power converters
- Æ Electric machines & actuator/ analysis and design of electrical machines
- Æ Motion control, robotics, adjustable speed drives
- Æ Modeling and simulation in power electronics
- Æ Intelligent control, fuzzy logic, artificial neural networks
- Æ Multivariable, nonlinear, robust, adaptive and optimal control
- Æ Switched mode power supply and UPS
- Æ Power electronics in electrical energy generation, transmission and distribution/ FACTS
- Æ Power quality issues, harmonics problems and solutions
- Æ Evolutionary algorithms and application

## IMPORTANT DATES

- Abstract submission **25<sup>th</sup> AUGUST 2008**
- Intimation of acceptance **28<sup>th</sup> AUGUST 2008**
- Camera Ready Paper Submission **07<sup>th</sup> SEPT. 2008**

## SPONSORSHIP OPPORTUNITIES

The conference provides ample opportunities for companies to promote their products/ services to a focused audience and general public through exhibition and product demonstration and display. The charges for the same can be obtained from the organizing secretary.

The Organizers offer sponsorships as follows:

**Last date of registration is 05<sup>th</sup> Sept., 2008**

The Conference proceedings will provide an opportunity for advertisements as follows:

- (a) Back Cover Page : Rs 7, 500/-
- (b) Inside Full Page : Rs 4,000/-
- (c) Inside Half Page : Rs 3,000/-
- (d) Exhibition Stall(10 fit \* 10 fit) : Rs 5,000/-



