



Message from Chairman



Dear Members,

Greetings from IEEE INDIA COUNCIL. First of all may I congratulate you all on Winning of the following award on the basis of Global Competitions?

The R10 has selected Madras Section as the 2010 R10

Distinguished Large Section based on the Annual Performance.

PES 2011 Membership Growth Contest:

For the Small Chapter category <= 100 members

First Place (\$1000): KERALA SECTION 73%

Second Place(\$500): COLUMBIA SECTION (Region 9) 54%

Third Place(\$250) TIE CALCUTTA SECTION 40%

TIE WESTERN SAUDIARABIA SECTION 40%

Congratulations to MADRAS, KERALA AND CALCUTTA chapters for the fine work! Keep it up.

In the previous issue I have introduce myself to you all. During the month, I have shared some of my though on the following issues with my Ex. Committee colleagues.

- ◆ As per the R 10 meeting held at Yogyakarta, nomination committee consisting of Mr. R K Asthaba, Dr. Suresh Chander Pal and Mr. Raju R Hira has completed the election process of IC Slate for 2011 and installed the new Ex. Com. Thanks to the nomination Committee. Welcome and congratulation to all the New Ex. Com members.
- ◆ During the R 10 meeting another immediate action point assigned to was to revise and implement IC Council By laws in line with MGA before the present term is over. In this regard, the recommendations of the committee constituted by the IC have been circulated and are placed on the IC website. There are some suggestions by the members and considering the new environment, I am proposing to put the revised drafts by laws as soon as possible to the Ex.Com and finalize with necessary approvals.
- ◆ May I request all Section Chairs to kindly give the website address of their respective Sections/ Chapter to Mr. Quraish Bakir to be put on IC website home page and link directly? Similarly May I request all Section and Chapter to link IC website on their home page.
- ◆ We need your specific input on the followings
 - ◆ Role of IC for Sections and Chapters under IC
 - ◆ Generation of Financial resources for running day to day activities of IC
- ◆ May I request all the Ex Committee members to kindly prepare an annual action plan for the activities under your preview for the year 2011 and the same will be put on the IC website. The annual action plan should also include the requirement of funds and generation of the same.
- ◆ One of the means to generate the funds is to play the role of facilitator for disseminating information including organizing conferences, seminar and meeting for the Government, public and private sector. IEEE has always played a critical and effective for the same with the help of student's volunteers. Suggestions Pl.
- ◆ Another suggestion is that the IC should play a Catalytic role in promoting e-education including certification offered by different IEEE societies. Suggestions Pl?
- ◆ Once we identify the income resources, we would like to use these effectively for the benefit of

Women Engineering, Student Activities and Remote areas accessibilities,

And keeping our senior members professionally active who have retired from the respective jobs and in a position to professionally contribute.

I have been receiving inputs on the above from our team and in the meantime May I request inputs from you all.

Recently The Ministry of Information Technology had organized ELITEX 2011, an annul event of the Ministry and as per the above , I had taken initiative to let IEEE AES COM LEO Society play the role of facilitator. This has benefited the Ministry as well as IEEE. I would like the same to be repeated wherever it can be?

Looking forward for your inputs. Thanks

Dr. Ram Gopal Gupta

ELITEX 2011

ELITEX 2011 was successfully held during April 4th and 5th, 2011. **The Hon'ble Minister for Communications & Information Technology, Shri Kapil Sibal inaugurated the exposition on April 4th, and Shri Sachin Pilot, Hon'ble Minister of State for IT and Communications delivered the Special address. Dr BK Gairola Director General NIC delivered the Key note address.**

The Hon'ble Ministers during their speeches emphasized the role of close association between Academia, R&D institutions and Industries which have been very clearly emerged and emphasized, The Hon'ble Minister also emphasized the public-private partnership in developing new technologies. They have also appreciated the efforts made by DIT in organizing ELITEX 2011 showcasing their achievements in terms of products and services for commercialization and advised if the scope can be enlarged to all the technologies developed in the IT sector in India. Both the Hon'ble Ministers in particular appreciated the efforts made by the department to take the benefit of technologies to the General Masses as per the Theme of ELITEX 2011.

The Hon'ble Ministers inaugurating the exhibition and appreciated the efforts in showcasing technologies developed under the support from DIT. Both the Hon'ble guests desired the continuation of ELITEX as annual feature of DIT.

The following products/technologies were transferred and released: -

Radio Theodolite System and GPS Based Digital Radio Sonde developed by SAMEER was transferred to IMD.:

CDAC:

- ♦ **EduBOSS 2.0**
- ♦ **U-Sikshak**
- ♦ Ubi-mote-Lab Kit
- ♦ Punarjjani

Media Lab Asia

CHIC - CAD tool for Crafts

Released a Draft Consultation Paper on Mobile Governance Policy Framework for wider consultation among all the stakeholders to receive their comments and feedback. The document covers all the major aspects associated with mobile governance in India. The Consultation Paper is available on the DIT website:

<http://www.mit.gov.in/whatsnew>

During the inauguration ERNET India, with the help of Centre of Disabilities Studies of National Association for the Blind (NAB) India, has shown a short film in order to showcase the impact on the education process of disabled across the country. The film aims to reflect the impact of the provision and usage of computer labs and assistive tools provided by ERNET India. A first of its kind initiative, the project aims at facilitating a paradigm shift in the education of disabled children. ERNET India has so far successfully trained 10,000 children with hearing, visual, physical impairments, mentally retarded and cerebral palsy.

State Governments of Delhi, Orissa, Gujrat and Bihar have displayed their achievements of NeGP projects on SWAN, SDC, CSC, SSDG, e- District, e- Municipality, e- Registration etc. and also e- Despatch (Automation for dispatch of all Govt. letters), Sanjog Helpline (one Toll free number to redress the citizen grievances for various scheme), SAMS (Students Academic Management System for on line admission process), Smart Panchayat, Punarbas (Automation of Land Acquisition process), Project Nandini in the e-governance area.

Following products/technologies/services were on the display.

Compact Antenna Test Facility, EMI/EMC Testing facility, Linear Accelerator system for cancer treatment, Radio Frequency Dryer for Industrial Applications, Microwave Disinfection system for treatment of Hazardous hospital waste, Doppler Sodar for Pollution monitoring, Wind Profiler system, Microwave Heating system, Fibre optics components and systems, Millimeter wave components, Various type of antennas for different applications, Wireless

SCADA system for remote monitoring and control for offshore systems, Mesospheric Stratospheric Tropospheric (MST) Radar for Atmospheric research, Radio Theodolite system for Upper air monitoring and weather forecasting, GPS Based Radiosonde, Ubiquitous Test Bed with application of tourist information system, Perceptual robotics including eye tracker, advance technologies like Optical Character Recognition system, Online Handwriting Recognition System, Cross lingual Information Access system. The English to Indian Language and Indian Language to Indian language Machine translation system,

IP telephone, MIS for textile mills, Power distribution system, ayurvedic knowledge base, Call center equipment, Security tools, e-commerce technologies, RF drying for agro products, Waste management solutions, Telemedicine tools and network, Blue tooth devices, BOSS Linux Server, Black Box for Automobiles, Smart Access Plus, Network Forensics Tools (NetForce), KYN – Know Your Network, Anuman – Real Time Weather System, Reconfigurable or Adaptive Computing Systems (RCS Card), GIPSY, Infinite Commodity Store (ICOS), HoneyNet India, e-Senani, Polysensors – A Water Quality Testing Device – Media Lab Asia, Ruralnet Including DGP, Sehat Saathi, Sahayika – The Knowledge Network, Training Tools for Nomadic Tribes, Samvidha – Offline Internet Access System, Sanyog, Multiport Wireless Access System, aAQUA (Almost All Question Answered), Fertilizer Sprayer, ICT enabled integrated assessment tool for mentally retarded (MR) children - Punarjani™, CAD tool for embroidery: Chic™, A Comprehensive Satellite/Internet based National Network for Education Training and Empowerment of the Disabled, **Web based Intelligent Tutoring System: Shikshan™**, Rural Health Management Information System: - Health-Asociado™. Rural Telemedicine System: e-Dhanwanthari™, Affordable Retail Management System for retail traders: eGalla™.

As on now, Department has filed IPR for 600 Patent/Copy Right/Trademark and Design related applications were filed. Out of these 145 patents of which have been granted.

The Discussion Sessions were held on the theme of ELITEX 2011

“e-Governance: Public Services Closer Home”

and included sessions on *Empowerment through M-Governance, Cyber Security – Evolving Threats and Counter Measures, Challenges of Multilingual Web Services, Convergence Communications & Broadband Technologies, Shared Platforms for e-Governance, Government Service Delivery using ICT, Indigenous Technology Development for IT & Electronics, C-DAC R&D Initiatives – A Glimpse, Nanoelectronics Infrastructure, Capacity Building & Technology Development, ICT for Common Man and Technologies in e-Governance*

ELITEX 2011 promoted R&D industry linkages essential for the absorption of indigenous technology by the industry and for stimulating innovations. The Discussions deliberations were available online via direct webcasting on www.elitexlive.nic.in and www.elitex.in and also at all the video-conferencing centers of NIC. Some of the Seminar Sessions had Question/Answer through video conferencing. All the presentations during the discussions are available on www.elitex.in.

As per the recommendations of Award Committee the following awards were presented during the Award Session:

Best Exhibitor Award	C-DAC
Best Exhibitor Award among State Govt. stalls	Delhi
Second Best Exhibitor Award	NIC
Special Exhibitor Award	CMET

The www.elitex.in website is being continuously updated and will provide information related to the technologies developed. The presentations during the seminar are now available on the website. The seminar deliberations were available online via direct webcasting on www.elitexlive.nic.in and www.elitex.in and also at all the video-conferencing centers of NIC. The video-conferencing centers attracted a large number of visitors to watch the proceedings.

There were 1350 registered participants which include 16 foreign official from different embassies located in Delhi. The exposition was also visited by the delegation from Butan. Exhibition was visited by more then 4000 people.

ELITEX 2011 has been organized by IEEE AES COM LEO Society Chapter India with full financial support from Department of Information Technology and its associated organizations.

That is IT in April 2011

Prof. S. Sadagopan



General

- ♦ India wins World Cup on April 2, 2011
- ♦ Elections in Tamil Nadu, Kerala, Assam and West Bengal are to be held during April 9 - May 9, 2011 with counting schedules on May 13, 2011
- ♦ Anna Hazare led "fast" yields results; Government concedes to taking steps to combat corruption by constituting a panel to draft Lokpal Bill
- ♦ Infosys manages the transition by appointing ICICI Chairman KV Kamath as Chairman with Founder N R Narayana Murthy moving to Chairman – Emeritus status on August 21, 2011
- ♦ World renowned spiritual guru Sathya Sai Baba passed away in April 24, 2011
- ♦ CBI charge sheets MP Kanimozhi (daughter of DMK Chief) on April 25, 2011 in connection with 2G scam; arrests Suresh Kalmadi of Congress party for corruption in Commonwealth Games procurement on the same day
- ♦ Amazon cloud services fail for 2 days (April 20-21)

Products

- ♦ **Apple** launches **iPad 2** in India on April 29, 2011
- ♦ **RIM** (BlackBerry manufacturer) launches **Playbook Tablet** powered by QNS on April 19, 2011

Markets

- ♦ TCS, Infosys, Wipro, HCL, Cognizant and Mahindra Satyam post great results for the financial year 2010-11. TCS annual revenue in 2010-11 crosses \$ 8 billion!
- ♦ Apple, IBM, Intel, Microsoft, Oracle, SAP post great results during 1Q2011
- ♦ **Apple** quarterly profit exceeds **Microsoft** quarterly profits for the first time in Q1 of 2011
- ♦ **Texas Instruments** buys **National Semiconductors** for \$6.5 billion on April 1, 2011
- ♦ Indian BPO major **GENPACT** buys IT Services firm **Headstrong** for \$ 550 million on Apr 6, 2011

Indian IT Companies

- ♦ **Mahindra** strikes global deal with **Cisco**
- ♦ **Infosys** to focus on high value consulting business

MNC IT Companies in India

- ♦ **Samsung** talks of nearly \$ 5 billion business in India in 2011
- ♦ **Sandisk** ramping up India operations
- ♦ **Toshiba** to invest Rs 450 crores in India in 2011
- ♦ **Nokia** layoff impacts Indian R & D team too (several hundreds in India of the several thousands globally)

Education & Research

- ♦ NXP sets up Automotive electronics center in I2IT in Pune

People

- ♦ NR Narayana Murthy could execute his vision of corporate governance by his leaving Infosys on August 21, 2011 when he turns 65, a rare phenomenon in Indian corporate governance
- ♦ Larry Page is the CEO of Google from Apr 1, 2011
- ♦ Pratik Chaudhuri is SBI Chief from April 2011
- ♦ Suresh Vasvani of Wipro is Dell India Chairman
- ♦ Mindtree founder Ashok Soota starts Happiest Minds Technologies on April 1, 2011
- ♦ Infosys head of HR Mohandas Pai quits on April 15, 2011
- ♦ VmWare Paul Maritz visits India
- ♦ Albert Hieronimus is Mindtree Chairman from April 1, 2011
- ♦ India-born Siddhartha Mukherjee, an Oncologist in New York. wins Pulitzer Prize for his book "The emperor of all maladies - A biography of cancer"
- ♦ Lobsang Sangay to be the Head of Tibetan movement, taking the mantle from Dalai Lama
- ♦ Sony former chief Ohga who spearheaded the development of Compact Disc (CD) dies on Monday 24, 2011

Interesting Applications

- ♦ Amazon Kindle to allow Kindle readers to borrow eBooks from 11,000 public libraries

Interesting numbers

- ♦ Apple iPhone quarterly revenue of \$11.9 billion goes past Nokia handset revenue of \$9.4 billion the first time ever; interestingly Apple sold just 4.86 million iPhones compared to Nokia selling 24.2 million smartphones!
- ♦ Indian IT industry to hire 225,000 professionals in 2011
- ♦ TCS annual turnover in financial year 2010-11 (April – March) crosses \$ 8 billion (more than Rs 36,000 crores)!
- ♦ India has 100 million Net users (China has 600, USA has 300) who spend 16 hours a week online!
- ♦ As of March 31, 2011 Indian mobile subscribe base touched 811.59 million (with 573.77 active users in March) with 20.21 million addition in March 2011 (TRAI)
- ♦ Foreign exchange reserves as on April 1, 2011 was \$ 305.49 billion (RBI)
- ♦ Delhi Airport has 910 flights on an average and handled 1,020 flights on Mar 30, 2011; the average number of daily flights for Mumbai, Chennai, Bangalore, Hyderabad and Kolkata are 715, 330, 320, 230 & 200 respectively
- ♦ India has 100 million Net users (China has 600, USA has 300) who spend 16 hours a week online!
- ♦ Bangalore tops office space addition in 1Q2011 with 2 million sq feet (Richard Ellis)

**IEEE Power & Energy Society India Council Chapter
Awards Committee 2011**
**IEEE PES IC Chapter invites nominations from IEEE India for
the Outstanding Service Award**

***Nominations are invited for IEEE PES India Council Chapter
Outstanding Service Award 2011 from Members of IEEE India***

- The nominator should be an IEEE Corporate Member and nominate an individual within the Geographic area of IEEE India Council (Resident of India) who has contributed significantly towards the overall growth of Power and Energy Sector in the year 2010-11 (and also over the past years).
- The nominator generally should be a current IEEE member from India and the nominee shall be that individual who in past (even from outside IEEE) has contributed significantly/rendered exceptional services towards the overall growth of the Power and Energy Sector.
- The Award consists of Rs. 10,000/- worth Silver Plaque along with a befitting citation to be given at an appropriate gathering, timing with the yearly conference of IEEE PES India Council Chapter to be held in mid 2011.
- The nomination should be in the prescribed format (given below) and should reach the PES IC Awards committee (see address & email id below) by 10th June 2011.
- Total nomination write-up should not be more than five printed pages (use 10 font size).
- Self-nominations are not encouraged.
- The decision of the awards committee is final in all respects.

Address to send the Nominations:

Dr. R. Nagaraja

IEEE Power & Energy Society India Council Chapter

Chair - Awards Committee

Email: nagaraja@prdcinfotech.com

Report- National Conference RTCI-11

A National Conference RTCI-11 on topic "Recent Trends in computational Intelligence " was organized at Central India Institute of Technology(CIIT), Indore(mp-INDIA) on April 23rd,2011.

The conference is Technically sponsored by IEEE, Madhya Pradesh subsection, IEEE Computer Society, chapter , Bombay Subsection and CSI Indore chapter.

Dr. Prabhu Jhingran, Senior Director Doordarshan Kendra,Bhopal was the chief guest of this conference. He says that Computational Intelligence is very Important for the telecast purposes, the action replay of cricket and other important task could be possible with the recent technologies of computational intelligence.

Dr. Suresh Jain was the keynote speaker and he gave a lecture on data mining and its role in computational intelligence. IEEE Madhya Pradesh subsection chairman Dr. durgesh Mishra delivered a lecture on computational intelligence and networking. More than 100 research papers were presented by researchers and IT professionals from Gujarat, Maharashtra, Delhi, Uttar Pradesh, Tamil Nadu and Madhya Pradesh.

Prof. MPS Chawla and Dr. V.K. Jain was the session chairman at the conference and judged papers for awards.

CIIT,Indore Vice Principal Prof. Pankaj Dashore was the convener. More than 400 researchers, faculty members and P.G. Students were present in this conference to exchange information and technical know-how in the area of Computational Intelligence, so that further advancements may be made towards sustainable research and development in this area.

Dr. Sunil Kapoor, chairman of R.K.D.F. group and Dr. N.K. Dubey, Director CIIT, Indore were also present and speak on the importance of Computational Intelligence.

Standards for Indic input on mobiles and Cloud Computing

--Arjuna Rao Chavala, SM-IEEE, Coordinator SW/IT Focus Area of IEEE-SA India SIG

IEEE-Standards Association has setup a India Special Interest Group with the objective of spearheading the initiative to improve the contribution from engineers working in India. As part of the SW/IT focus area, Indic input on mobiles and cloud computing teams are formed and started working.

Indic input on mobiles:

Though, the Indic language support in basic phones existed from 2005, their usage is close to nil, due to lack of awareness, difficulties of entering Indic text and printing of Hindi characters on keypads meant for non-Hindi areas. For Indic use in SMS, there were no standards for encoding Indic text with GSM/CDMA technology.

Dr Nadeem from CEWIT, Vijay from Nokia, Dr Mahesh and Naveen J from Brahmi computing, Sunil Abraham and Nirmita Narasimhan, Sri Chandra and myself as volunteers of IEEE-SA attended the first meeting held in Feb 2011.

Dr Nadeem presented work done as part of the broadband consortium during the last year towards input, storage, rendering of indic text. The scope included only the basic phones with 12 key keypad and simple input methods without reliance on word dictionaries. The team came up with an intuitive input method in the usual alphabetic order of script and switching in of additional layers to speed up data entry to access frequently occurring letters. He also gave away hardcopies of the recommendation to the attendees. He said that he plans to share the recommendation in a larger forum and encourage the vendors to adopt the standard.

After extensive brainstorming on indic input methods status, it is agreed that touch phones will become the key for extensive use of Indic languages. As touch phones become affordable at price points of less than 5000 Rupees, developing a input standard for them can help in speeding up deployment. The touch phone also does not have limitation on number of keys, so even simple methods can be easy to use. The firmware changes for phones already with public can also be done easily.

In a second meeting held in May-2011, it is decided to form a working group. A proposal was submitted to Communication society requesting their sponsorship for the initiative. Dr Somnath Chandra from Department of IT, Ministry of ICT has expressed interested to be part of the working group as well.

Cloud Computing

Cloud computing got off to a good start with active participation from Nokia, Huawei, PA Consulting Orangescape for the first meeting in April-2011., Cloud security, mobile clouds, Cloud deployment are some of the interests of the participating members.

Arjun presented a brief overview of cloud computing scenario in India, based on his experiences from different conferences in the past year. Mary from IEEE-SA presented the status of cloud computing initiative. She said that Big data publishing (data from observatories could be of tens of tera bytes) standard development for the same are high on IEEE agenda. There are plans to hold a big conference in 2012. She explained P2301 and P2302 briefly. She also talked about decision support system test bed being developed as part of Industry connections program.

First Cloud standards meeting Photo

Dr Debu Nayak from Huawei explained his work in ITU cloud computing standards in the area of cloud security for Telecommunications domain. He said that taxonomy, requirements services are the areas for which several companies like Microsoft, Nokia and CISCO have been contributing. He offered to do a detailed presentation in a future meeting.

For more information and to join the focus area mailing lists, please see
https://mentor.ieee.org/stds-india/bp/Software_IT_focus_area

About the author: Arjuna Rao Chavala is currently an Independent Technologist based in Bangalore and serves as the coordinator for SW/IT focus area of India SIG. He can be reached at arjunaraoc[at]googlemail.com