

Chairman's Message



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Dear friends,

On behalf of everyone related to IEEE Madras Section, I sincerely thank Mr. H.R. Mohan, Chairman, IEEE Computer Society for having organized and conducted many programmes in the field of Computer Engineering for the benefit of students, academicians and people working in industries. IEEE Computer Society of Madras Section organized a technical lecture on "Open Source Software and Asian Economies" on April 03, 2009 at C-DAC, STPI Facilities Centre, Taramani.

IEEE Women In Engineering (WIE) celebrated "Women's Day" at ISTE Convention Centre on March 08, 2009. In another function, IEEE WIE website was launched by Dr. G.V. Rao, Chairman, IAS Society on April 06, 2009.

I feel honoured to have inaugurated the National Conference on "Signal and Image Processing" conducted by SMK Fomra Institute of Technology, Chennai on March 27, 2009. This programme was co-sponsored by IEEE Madras Section.

I am happy to inform that IEEE Madras Section in association with Karunya University is going to organize two Faculty Development Programmes on "Intelligent Software Agents for Knowledge Engineering" on April 24 – 25, 2009 and on "Challenges in Information Security" on May 23 – 24, 2009 at Karunya University, Coimbatore. All the members of IEEE can make use of this opportunity to enrich their knowledge.

The Execom of IEEE Madras Section has planned to celebrate the occasion of 125th Anniversary on August 27, 2009 at Chennai (the venue will be decided in due course of time) with a series of activities as I mentioned in the Newsletter of March 2009. Dr. John Vig, President of IEEE has given his consent to participate in the IEEE 125th Year celebrations at Chennai. I request all the IEEE Student Branch Counsellors, Student Volunteers and other members to reserve this day exclusively for the celebrations of this memorable event at Chennai.

I would like to inform that IEEE Bangalore Section with help of India Council and R10 is organizing the All India Student Branch Counsellor Congress at Bangalore during July 03 – 04, 2009.

Those who want to join IEEE for the year 2009 may send their applications so as to reach the IEEE Headquarters, USA on or before August 31, 2009 to avail the 50% discount in the membership fees.

Editorial Team

Mr. H.R. Mohan, Dr. S. Salivahanan, Dr. M. Ponnaikko,
Dr. P. Suresh Chander Pal, Mr. T.S. Rangarajan, Mrs. M. Ramalatha

From The Editor's Desk

H.R. Mohan
hrmohan@gmail.com



Dear Friends,

It is heartening to note that the activities at the Madras Section have increased many folds over a period. The student branches have become more vibrant and this year is seeing a host of activities at institutions which were not reported in the LINK in the recent past.

The Computer Society had organized a CIO Meet on performance excellence through insight and innovation – a timely one to manage information across all segments and two talks – "Business Process Excellence through BPM and SOA" and "IT Industry at Crossroads" organized along with the Section and TMC, WIE which were of current interest and well attended. Brief reports on these activities are reported in this issue.

IEEE CS is joining with Rotary Club and Exnora in launching the Digital Literacy Training Programme which aims to empower novice users, youth and women by training them in IT skills which would provide them with an opportunity for their livelihood. It is an ideal activity for all our student branches as the institutions are well equipped to provide this type of training during weekends with the support of member volunteers. This could also be a corporate social responsibility activity for the institutions. Added to this, a no. of open source related activities are being planned with CDAC and NRCFOSS who have come out with the BOSS operating system which will bring down the TCO of a desktop by 25%. Educating users will be a major task at hand and the IEEE branches could support and extend assistance. These activities, if done in this 125th year of IEEE, we will be fulfilling one of the objectives of IEEE – using technology for societal uplifting.

LINK reports on the conference on innovative techniques in power engineering and drives held at Velammal Engg College, workshop on open source conducted at RMD Engg College, conference on VLSI, embedded systems, signal processing and communication technologies hosted by AVIT, branch inauguration at Sakthi Mariamman Engg College, technical events at SRM Univ., Women Day Celebrations of WIE Madras Section, ABHIVARAT symposium organized by Mepco Schlenk Engg College, guest lecture on Bluetooth and JAVA arranged at Dhanalakshmi College of Engg, seminar on careers in the civil services held at SSNCE, workshop on VLSI at SCVE, seminar on career development for engineers & inauguration of WIE chapter at Kumaraguru Engg College, revival of the student branch at KSR College of Tech and the Industrial Applications Society activity organized at AVIT.

LINK congratulates Ms V. Sri Divya and Mr. V. Sathya Narayana of SVCE, the winners of Info Contest 0903 who will receive a prize of Rs. 500/= each sponsored by SRA Systems. We encourage other members to actively participate in the forthcoming Info Contests.

We draw the attention of LINK readers to the list of additions to the IEEE Madras Section Library, forthcoming events which includes two FDPs and an international conf. on millennium developmental goals.

Presentation on Business Process Excellence through BPM and SOA

A presentation on the topic “Business Process Excellence through BPM and SOA” by Mr. Sandeep Shisodia, Principal Consultant (BPM Practice), Cuecent, Bahwan CyberTek, Bangalore was organized jointly by the IEEE Madras Section, IEEE Computer Society Madras Chapter, IEEE Technology Management Council Madras Chapter and the Chennai Chapter of the Computer Society of India on 14th Mar 2009.

Dr. S. Salivahanan, Chairman, IEEE Madras Section welcomed the gathering. Mr. K.V. Rupchand, Chairman of TMC introduced Mr. Sandeep Shisodia. Mr. K. Ram Subramanian, Executive Vice President, Bahwan CyberTek gave a brief overview of Cuecent & Bahwan CyberTek and the services offered by them.

Mr. Sandeep Shisodia, started his presentation by explaining how BPM helps IT deliver more successfully the Goal or ‘Intent’ driven applications by leveraging existing systems and architecture, shortening project cycles with quick-wins, improving scalability and flexibility and proper monitoring and measurement of the project execution. He added



that a typical BPM has the components such as Workflow; Integration with existing applications, DBs and DMS; Integration with people; Customer Interface; Task assignment and tracking and Measurement, Audit, Reporting and Control. He had compared the conventional enterprise applications with BPM suites and stated that EAI and Application Infrastructure vendors are now adopting a BPM over SOA strategy to better align the organizational integration needs as BPM quickens the pace of development while reducing risk of failure. He had then compared the BPM and SOA approaches and demonstrated a typical BPM over SOA Architecture. Subsequently, Mr. Sandeep Shisodia dealt with Process Modeling in BPM, Business Process Modeling Notation



(BPMN), Enterprise Service Bus (ESB).

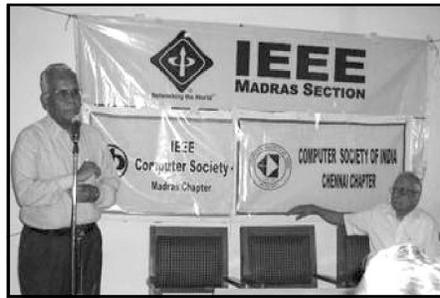
At the end of the presentation which was attended by about 110 professionals, Mr. H.R. Mohan, Chairman, IEEE Computer Society, Madras Chapter presented a memento to the speaker Mr. Sandeep Shisodia. Mr. Mohan thanked the speaker and Mr. Ashok Anand, CTO, Bahwan CyberTek who had coordinated in organizing the presentation and instrumental in supporting the event. Mr. Mohan further added that Cucent and IEEE CS would be organizing a full fledged workshop on the topic which would provide a better understanding of the concepts and implementation capabilities to the developers.

Talk on IT Industry at Crossroads



A talk on the topic “IT Industry at Crossroads” by Prof. C.R. Muthukrishnan (popularly known as CRM), Advisor, Tata Consultancy Services, Former Director In Charge, Indian Institute of Technology (IIT) Madras and Former President of the Computer Society of India was organized jointly by the IEEE Madras Section, IEEE Computer Society Madras Chapter, IEEE Madras Women In Engineering Affinity Group and the Chennai Chapter of the Computer Society of India on 23rd Mar 2009.

Prof. CRM, in his talk, traced the global meltdown and attributed that the financial greed and indiscipline was the root cause for the problem and it started in US and spread across



the globe. As most of our Indian IT companies had a major dependency on US for projects, this meltdown had affected us also. The auto, manufacturing, banking and financial services, travel and hospitality are the major segments suffered due to this problem. Further, this slowdown across the world had a significant impact in our educational system as we had increased the no. of seats in the colleges in IT and related courses, in order to meet the growing demand of the manpower needs for the IT & ITES projects. Prof. CRM said that in the country, the demand for the local IT projects, value added telecom services, e-commerce and web related activities are on the increase along with the needs for the e-Governance projects

initiated by the government. Also, he said that many professional and students are utilizing this slowdown as an opportunity to go for higher studies and improve their skills and capabilities.

After Prof. CRM’s talk, the floor was open for discussions and views from the participants. General Balasubrahmaniam, the founder Secretary of CSI, Mr. G. Ramachandran, past Vice President of CSI expressed their concerns and change in attitudes. Mr. S. Srinivasan, Chairman and Managing Director of SRA Systems shared his views from the industry perspective. Mr. Mohan, Chairman, IEEE Madras Chapter said that the slowdown in IT sector has provided opportunities in other core areas and psychological counseling. He added that the industries and institutions should come closer in using open source software to reduce the cost of ownership.

The talk was attended by about 80 professionals and students. At the end, General Balasubrahmaniam, presented a memento to Prof. CRM. Mr. Mohan, in his vote of thanks thanked Prof. CRM for his consent to step in for Prof. Sadagopan, Director, IITB who was to give the talk originally.

ITPED-09: Conference on Innovative Techniques in Power Engineering and Drives at Velammal Engineering College



The Second One-day National Conference on Innovative Techniques in Power Engineering and drives ITPED '09 was organized by the Department of Electrical and Electronics Engineering, Velammal Engineering College on 20th March, 2009 in association with IEEE Madras Section.

The main objective of the conference is to offer a forum for the exchange of scientific and technical information related to the latest trends in the field of Power Systems, Power Electronics and Drives.

A total of 125 papers were received with representations from various colleges nationwide. About 35 papers were short listed for presentation. A total of 45 delegates participated in the conference. The delegates

included students, research scholars and teaching faculty from various institutions across the country.

The conference triggered off with the inaugural function presided by Principal Dr. J. Shanmugam and Vice-Principal, Dr. Sheila Haran. The Guest of Honor, Mr. R. Balakrishnan, Engineering Manager and Head – Engineering Design and Research Centre, ECC Division, Larsen and Toubro Limited inaugurated the conference by lighting the kuthu vilakku. He also released the conference proceedings along with the Special Edition Newsletter of the Department. Prof. P. Narayana Bhaskar, HOD/EEE and Mr. M. Arun Bhaskar, Coordinator, ITPED '09 joined the dignitaries on dais.

Dr. J. Shanmugam, Principal, Velammal Engineering College delivered the Presidential address. He emphasized on the importance of Power Engineering field of research and motivated the delegates to take up jobs in research sector.

In his Inaugural address, Mr. R. Balakrishnan stressed upon the need for increased power generation in India to meet the load demand by the huge population. He also

laid stress on the importance of research in areas of power quality and FACTS and the development of harmonic free devices.

Four sessions were conducted under three topics viz., Power Electronics and Drives, Power Systems and Embedded Systems. Dr. K. Shanti Swarup, Professor, IIT Madras, delivered the keynote address on “*Intelligent Agents in Transmission Network Protection*”. Dr. R. Gabriel Germans, Professor/EEE chaired the session the Power System Session.

Parallel session on Embedded Systems, chaired by Dr. A. Balaji Ganesh, Professor, TIFAC Core - VEC was also conducted.

Post lunch, Dr. S. S. Dash, Professor, SRM University gave a splendid keynote address on “*Soft Computing on Electrical Engineering*”. Two parallel sessions were conducted; one on Power Systems chaired by Dr. P. Chidambaram, Professor, VEC and another on Power Electronics and Drives chaired by Dr. S. S. Dash.

The brainstorming Technical Extravaganza came to a banging end with the valedictory ceremony. Dr. S. S. Dash, Dr. P. Chidambaram, Dr. R. Gabriel Germans distributed the certificates to the participants.

Workshop on Open Source at RMD Engineering College



A workshop on Open Source with an objective to motivate the students of RMK & RMD engineering colleges in open source software was organized on 16th March 2009 at RMD Engineering College with the support of IEEE Computer Society and Software division of CSI.

Dr. R.M. Suresh, Vice Principal, welcomed the gathering and introduced the chief guest Mr. H. R. Mohan, Chairman, IEEE CS and Div II on Software of CSI. Mr. Mohan, in his address stressed the need to go in for open source and highlighted that OSS is a viable alternative for many applications with lower cost of ownership. He also suggested that colleges should adopt nearby small and medium

enterprises and use the students to develop and implement applications and gain experience in this process. He added that this approach would be a win-win for both. Dr. K. Sivaram, Principal, presided over the inaugural session.

The morning session was handled by Mr. Amal Mathai from RedHat. He started with the open source concepts and provided a basic introduction to Linux operating system and then introduced the concept of Virtualization and enlightened the students with the types of virtualization and how each type is different from the other. The virtualization theory and its features created an impact in the minds of the students.

In the second part of the morning session, Mr. Senthil Kumar from Collabnet Solutions gave a presentation on Version Control System. He explained the necessity of a version control system and dealt with its types and uses. He also briefed on the uses of version control systems in real time and highlighted on how

these systems can be used to resolve the conflicts.

In the last part of the morning session, Mr. Shivaji of Lynus Academy, presented the real time implementation of JQuery Application. He also dealt with a bit of coding stuff using JQuery and how to create a JQuery Application.

In the post lunch session, there was a demonstration of projects developed using Open Source by the members of the FOSS Club of Jaya Engineering College. The projects that were demonstrated include: Tamil Spell Checker, Travel Guide, Online Bill Usage — which aids in limiting the usage of bandwidth in the internet.

At the end, there was an open discussion session on Open Source Software in general. Then the participants provided the feedback on the sessions of the workshop. The workshop attracted many students towards Open Source.

NCVESCO'09: Second National Conference on VLSI, Embedded Systems, Signal Processing and Communication Technologies at AVIT



Department of Electronics and Communication Engineering, Aarupadai Veedu Institute of Technology, Vinayaka Missions University organized a 2nd National Conference on VLSI, Embedded Systems and Signal Processing (NCVESCO'09) during 8-9, April 2009 at Aarupadai Veedu Institute of Technology (AVIT), Paiyanoor. The Conference was co-sponsored by IEEE Madras Section, IEEE Communications Society, IEEE Computer Society, ISTE and IETE Madras Chapter.

Dr. (Mrs.).N. R. Alamelu, Principal, AVIT & Convener of the conference welcomed the gathering.

Shri. P. Swaminathan, Distinguished Scientist and Director, Electronics and Instrumentation Group IGCAR, Kalpakkam inaugurated the conference. In his inaugural address, Mr. Swaminathan explained in detail

on how various technologies relating to the conference are in use at the IGCAR and invited the students and faculty to visit the nuclear power plant and see the technology in action.

Shri. H. R. Mohan, Associate Vice President (Systems), The Hindu, Chennai & Chairman IEEE Computer Society, Madras Section released the conference proceedings and addressed the gathering. In his address, Mr. Mohan spoke about the growing impact of the VLSI, embedded systems, digital signal processing and communications technology in various fields and also highlighted on the IPv6 which will facilitate connecting billions of devices on the Internet and the need to change over from IPv4 to IPv6 in the near future. These impact would necessitate further research and experience sharing.

Shri. S. Basker, General Manager (Operations), Vinayaka Mission presided over the inaugural function and received the first copy of the conference proceedings & conference CD. For copies of the proceedings and CD, you may pl. contact the organizing secretary of the conf. at dvijendrababu@gmail.com

Prof. D. Vijendra Babu, Head, Dept. of ECE and Organizing Secretary of the conference

briefed about the two day proceedings of the conference. Mr. R. Vijaya Arjunan, Asst. Prof. & coordinator of the conference, proposed the vote of thanks.

Out of 125 papers received, about 85 were presented in parallel sessions during the two days conference by the faculty and research scholars from various Engineering Colleges & Industries all over India. Best Paper Awards were presented for each session.

A no. of invited talks were also delivered on the focus areas of the conference by eminent persons and include:

- Dr.S.Radha, Prof. & Head, Dept. of ECE, SSN College of Engineering, Chennai
- Dr.Vaidehi, Prof. & Head, Dept. of Electronics, MIT, Chennai
- Sri. A.Ganesan, DGM, BSNL(Retd.), Past Chairman, IETE, Madras Chapter
- Dr. A. A Natarajan, Dean, MVJ College of Engineering, Bangalore
- Dr. R. Srinivasan, Prof., Dept. of IT, SSN College of Engineering, Chennai and
- Mr. Sreethar, Technical Lead, VLSI Division, Pantech Solutions Pvt. Ltd., Chennai.

Student Branch Inauguration at Sakthi Mariamman Engineering College



An IEEE Student Branch was inaugurated at Sakthi Mariamman Engineering College, Thandalam on 25th March 2009. Dr. Suresh Chander Pal, Chairman, student activity - IEEE Madras Section was the chief guest of the function and inaugurated the chapter. The function was started with lighting of the kuthuvilaku by the Chief Guest and other dignitaries. Prof.D.Lakshmi, Branch counselor welcomed the gathering.

Thiru.K. N. Ramachandran, Founder & Chairman addressed the gathering. He also praised the IEEE Student Branch and the Department of EEE for its progress and urged to maintain the same spirit of motivation in future. Dr. K. Vijayabhasker Raju, Principal gave the presidential address. He has emphasized the importance of joining IEEE Branch and also insisted the students to participate in various activities like seminars, conferences, paper presentation.

Dr.Suresh Chander Pal released the souvenir which includes technical articles written by IEEE members as well as the students of EEE and it was received by the College Chairman Thiru K. N. Ramachandran and the Principal Dr. K. Vijayabhasker Raju. The college Trustee, Tmt. Thilagavathy Ramachandran, Vice-Chairman Mr. R. Rajasekaran, Hon'y Secretary Mr. N. Natarajan and PRO PulavarN.

Rajagopal participated in the function.

Dr.Suresh Chander Pal gave an enlightened speech about the benefits of joining IEEE. He motivated many students to be a part of the global association. He suggested the members to form various committees with which all the members will be able to take part in the activities of the branch. He called for nominations from students for various committees and appointed the students in-charge for the same.

On the same day, the Student Branch along with the Dept. of EEE organized an Inter Department Paper Presentation Contest. Mr. G. Elangovan, HOD/CSE, Mr. S. Ramakrishnan, HOD/IT, Mr.Ponnaiya, HOD/S&H, Ms. Sarojini, AP/ECE were the judges. The judges shared their views and opinions with the participants on the papers which largely helped the presenters to reshape their content in a right way. Prizes were also given to the students.

*Report by: Prof.D.Lakshmi,
Branch Counselor*



IEEE MAS LINK SRA Systems

Info Contest

H.R. Mohan

Chairman, IEEE CS, Madras Chapter
Editor, IEEE MAS LINK
AVP (Systems), The Hindu, Chennai

This is the 12th contest under Info Contest – an ICT quiz, a regular column in our newsletter LINK. The members are encouraged to participate in the contest and win a prize. Answers to the contest questions can ONLY be sent by email following the guidelines provided at the end of the questions. TWO lucky winners who answer to maximum no. of questions and early (selected by lot if multiple entries qualify) will receive an award of Rs. 500/= each, sponsored by SRA Systems.

Info Contest – 0904

This contest has four sections A, B, C & D having five questions each. The number in bracket at the end of the questions denotes the no. of characters in the answer string.

A. In the following acronyms/ abbreviations “S” stands for what.

- A1. SIM
- A2. SIP
- A3. GSM
- A4. CMOS
- A5. SPOOL

B. Identify the company / product / magazine / service from the Tag Line.

- B1. The language of technical computing
- B2. The Best Source for Tech Hiring!
- B3. Simplifying Life
- B4. Power of Simplicity
- B5. Its time to move on

C. Provide the Answer.

- C1. Which workstation is being advertised as “personal supercomputer”
- C2. Which company has won the bid to buy out Satyam Computers
- C3. Name the first Play Station game to be

developed exclusively by an Indian company.

- C4. Find the odd man out: png, jpg, bmp, gif
 - C5. Which Indian IT company has an unusual designation “Chief Gardener”
- D. Fill in the blanks / Provide the answer.**
- D1. _____ had recently made an open offer to buy Sun Microsystems
 - D2. BPL Mobile is now known as _____ Mobile
 - D3. Maplesoft : MapleSim = MathWorks _____
 - D4. _____ is a technique which can be used to permanently disable hardware by loading a corrupted BIOS onto the hardware
 - D5. Benjamin Franklin’s _____ is the model for the IEEE’s diamond-shaped logo

Guidelines to submit the answers to the Info Contest by email.

In the Subject,

- Write the Contest No. (Info Contest – 0904) in the subject line.

In the body of the mail,

- In the first line, write the contest No: Info Contest – 0904
- In the second line, write your membership no.
- In the third line, write your email id.
- In the fourth line, write your name.
- In the fifth line, write the answers to the five questions of Section A, separated by comma.
- In the sixth line, write the answers to the five questions of Section B, separated by comma.
- In the seventh line, write the answers to the five questions of Section C, separated by comma.
- In the eighth line, write the answers to the five questions of Section D, separated by comma.

As the evaluation of the entries is automated, pl. ensure the above guidelines are followed.

Email the answers to:
hrmohan.infocontest@gmail.com

The last date to receive the answers by email is 5th May 2009.

**Info Contest – 0903 :
Answers & Winners**

Answers:

Management, Microwave, Multi, Mobile, Multiple
BakBone, Cuecent, Tandberg, iBall, Benefit True, False, Debian, Open source learning management systems, LinuxAsia
cn, impress, latitude, place names, Electronic Industries

Winners:

Ms. V. Sri Divya

Mem No. : 90437864
Email: vsdivya@ieee.org



Mr. V. Sathya Narayana
Sri Venkateswara College of
Engineering
Mem No. : 90422869
Email: sathya@ieee.org

Both the above will be awarded a prize of Rs. 500/= each. LINK acknowledges with thanks the sponsorship of the awards by SRA Systems (www.srasystems.com).

Section Membership as on 15th April 2009

Life Senior	-	5
Fellow	-	1
Life Fellow	-	1
Life Member	-	3
Senior Member	-	68
Member	-	754
Affiliate	-	29
Associate	-	37
Graduate Student Member	-	742
Student Member	-	3897
Total	-	5,537

The supercomputers came to market in mid seventies and the cost of supercomputing has been steadily decreasing over the period. In 1976, the ILLIAC IV with 64 processors provided a speed of 0.00000048 Tflops and CRAY-I with a single processor provided 0.00001778 Tflops at a cost of \$1 million. Now in 2008, the NVIDIA TESLA with 960 cores provides 493.1 Tflops at one million \$

Technical events at SRM University



The IEEE student branch of SRM University (SRMIEEE) has been conducting a series of technical events, as part of their annual event schedule. Spanning over a period of more than a month, these events conducted aim at developing the technical skills of the students, while widening their perspective of the happenings around them.

Giving a start to the event calendar was the MATLAB/FUZZY LOGIC Workshop, held on the 7th of March. Having been successfully attended by more than 50 students, this six-hour workshop was presided over by the IEEE branch councilor, Mr. C. Vaithilingan and co-ordinated by Pushpak (student member). The students attended a theory session, which was followed by hands-on

practical training. While they mainly dealt with power systems, the interactive and lively session had them solve the 'IEEE 14 - bus Model Simulation' problem. The comparisons made between human intelligence and Fuzzy Logic inspired the students greatly to such extent that they planned to form a 'Fuzzy Logic and Matlab' Group in association with IEEE, which will function for future projects and research work.

Another set of events running parallel to the workshop was the TERZETTO. Keeping to its literal meaning (the power of three), it comprised of three events: Quiz, Dumb-C and Crossword. co-ordinated by Nishtha Chopra and co-ordinated by P. Meghna, the Quiz consisted of the prelims and the final rounds. Putting their general knowledge to test, six teams got down on the arena, out of which, only three were allowed to move on to the finals. Divided into five rounds based on technical knowledge of different subjects, the Quiz witnessed sheer thrill, excitement and enthusiasm from the member teams. At the end of an enthralling hour and a half, the intellectual team to walk away as the winners was that of Priyanka Chandra, Ankita Nayak and Trisha.

The second event of Terzetto was the Dumb-C, completely based on Electronics. Co-ordinated and hosted by Rajiv Mishra, while being co-ordinated by Teja, this three-round extravaganza saw six teams on the floor. proving their communication skills and the mettle to face technical challenges, the enthusiastic team of Rashmi, Aparajita Iyer and Prashant Kumar emerged as the winners.

The last event of the series, the Crossword, was co-ordinated by Ratika. This mind boggling technical puzzle lasted for about 50 minutes, during which each of the participants took up the challenge of outdoing each other. The winner of this event was Trisha (1st year).

A workshop on LABVIEW was held on the 8th of March, coordinated by Himanshu and Rahul Guha (IEEE student members). Having been attended by more than 50 people, this 8 hour long interactive session dealt with fabrication and simulation software. A series of value added workshops has been scheduled for the rest of the semester. These workshops, aim at imparting technical knowledge to the students, while gearing them up for the professional world.

Women's Day Celebration by Easwari WIE Affinity Group



The IEEE Student Branch Women in Engineering affinity group of Easwari Engineering College celebrated the Women's Day on 8th March, 2009 at IEEE Madras Section, Kotturpuram.

The chief guest Mrs. Uma Rajaram, HOD / EEE, Dr. MGR Technical University, Chennai graced the occasion. The celebrations commenced with fun-filled games organized by our student members. Later, the chief guest addressed the gathering which highlighted the status of women in our society.

Mrs. Uma Rajaram, spoke about how men still have not accepted women in higher

positions. She also brought out the fact that women are not readily willing to accept the opportunities given to them, to go higher up in their career, because of their attachment and responsibility towards their families. Her solution for this gender bias in the work place was that, only a deserving person should get the job, the judgment for which should be done on the basis of talent and capability alone, and not gender. She also elaborated on the subject of how the society treats men and women differently, right from upbringing of children, to the career. She concluded by saying that, men and women are equal and this thought should prevail in everyone.

Following the speech, the chief guest along with Mrs. Ramalatha Marimuthu and Mrs. Vydeki awarded certificates to the student members for their participation in the various activities of IEEE. During this session, and those spoke about IEEE's impact on their student life. The members shared their views on women's day and some of them explained about the women role models in their lives.

The celebrations concluded with Mrs. Ramalatha's review of the major activities organized by the students, and the vote of thanks by Mrs. Vydeki.

MGA Achievement Award



Mrs. Ramalatha Marimuthu, Chair, Madras IEEE Women in Engineering Affinity Group and Treasurer, Madras Section has received the MGA Achievement Award for the year 2008, conferred by IEEE, USA. She was given this award at the Region 10 meeting held at Hanoi, Vietnam, where around 200 members attended from all the countries across the Region. This is a very prestigious award, and she is the first Indian woman to be honored with the award for the outstanding contributions she has made to numerous IEEE activities and the example she set in carrying forward the goals and objectives of the IEEE MGA Board. This award consists of a cash prize of US\$250, a plaque and a citation.

ABHIVART'09 at Mepco Schlenk Engineering College



Successful men and women think with a new streak always. If such persons of high thinking gather to give a symposium, we would get nothing but ABHIVART'09 on 12th Mar 2009. The auspicious and blessed is the time of inauguration by lighting the kuthuvilaku and singing the prayer song in the presence of the dearly awaited guest, Dr. T. R. Rangaswamy, the honorable Dean (academic), Prof. & Head of IT department of Crescents College. His illuminating lecture on "Intelligent Control" made every brain ticking away.

The delegates came from various parts of Tamil Nadu such as Madurai, Chennai and Coimbatore. After much deliberation, they were screened to attend their final touchstone. They had a warm arrival and given refreshments. They were very enthusiastic to start competing in the programs.

The paper and project presentations were both brain busters, the judges being very querulous. But they also had hard time in choosing the winners as every delegate was uniquely good for the trophy. Being very stringent and judicious, they choose at last the highly deserved ones.

The program of Circuitrix is the essence of Elec IQ bringing both inter and intra students in throngs to the lab. This session has to be extended to the afternoon also due to the wide response it got while the technical paper and

project presentations ended with the morning session itself. The delegates were treated to a rejuvenating meal so as to strengthen their resolve for the next round of events.

The B-PLAN bought out the managerial skills and was judged by the highly sophisticated management of Mepco Professor, Dr. G. Balamurugan. This innovative approach was to be their first step to entrepreneurship. The Virtual Share Marketing (VSM) was the other way gamboling into the path of Dalal Street. The balance sheet at the end of ten days of virtual buying and selling of shares gives out the winner.

Quiz (general) was the cliché but it was made zeitgeist by the compeering of our own IEEE Member Representative, Mr. Srikanth,

the upcoming Quiz Master of MEPCO. The marketing event was a new approach to Adzap events. The committee had a different way of testing the effective buying and selling technique of the participant. His personal appeal as the Marketing Executive for the given products with the audience was discerned.

"All that begins well, ends well": Abhivart '09, from sunrise to sunset satisfied every expectation of the audience, participants, the committees, the organizers under the support of staffs, the Heads of various Departments, our Branch Counselor Mrs. K. Mala and our illustrious Principal Dr. S.Balakrishnan.

The following is the list of prize winners for each of the events:

Event	Prize Winners	College	Judges
Paper Presentation (Inter-ECE/EEE)	1. V. Vignesh M.Maheskumar	PSG, Coimbatore	1.Mrs.Indhumathi
	2. J.Venkatesh G.K.Vignesh	SRM University	
Paper Presentation (Inter-CSE/IT)	1.V. Kabilan A. Jegadish	Thiagarajar Coll of Technology	1.Dr.Ksnnan Balasubramanian
	2.Vikash Kumar	SSN College, Chennai	2.Mrs.Premalatha
Paper Presentation (Intra)	1.S.M.Ramkumar D. Harisudan	Mepco Schlenk Engg College	1.Ms.M.S.Bhuvaneshwari 2.Mrs.Jeyachrista.
	2.P. Akilan N.Y. Sivarajkumar		
Project Presentation	1.J. Arun Sundar B.Thirumurugan	Mepco Schlenk Engg College	1.Dr.R.Shantha Selva Kumari 2.Mr.Oliver Jeyaprakash
	2.J. Jeydhass J. Manoj B. Prasanna Venkateshan	Kumaraguru Coll of Technology	

Report by: IEEE Student Branch Counselor, Mepco Schlenk Engineering College

Guest Lecture on Bluetooth and Java at Dhanalakshmi College of Engineering



Under the aegis Technosparkz, the IEEE students branch of Dhanalakshmi College of Engineering, Manimangalam, Chennai, a guest lecture on Bluetooth and Java was organized on 19th March 2009. The day began with the ceremonial tribute to the almighty. The student branch president M. R. Ramachandran welcomed the gathering. Mr. E. P. Subhash, Head of Competency Development Center-Spring Board CDC,

spoke on the current trends in mobile computing, effectiveness of Bluetooth with its various applications and advancements in the current software. Matters relating to career development were also discussed with a view to giving advance information to the students of ECE, to make apt choices. At the end, Mr. V. Balaji, branch counselor, proposed the vote thanks.

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Seminar on “Careers in the Civil Services” at SSNCE



The IEEE Student Branch of SSN College of Engineering conducted a seminar on “Careers in the Civil Services” on 16th March 2009. The guest lecture was delivered by Mr. Vivek Harinarain IAS, Executive Director – Industrial Clusters, Marg Ltd. During his tenure with the Indian Administrative Services, he was Collector of Tanjore, Chairman and Managing Director of Tamil Nadu Cement Corporation, Commissioner of Survey and Settlement, Secretary Information Technology Government of Tamil Nadu and Chairman ELCOT.

Prithvin Rajendran, IEEE Student Branch Chair compeered the seminar and welcomed the dignitaries and others. Dr. R. Arumugam, HOD of EEE Dept., presented a bouquet to Mr. Vivek Harinarain. Dr. K. Kasturi, Dean gave the presidential address.

Mr. Vivek Harinarain started the seminar with the proverb, “*Man cannot discover new oceans unless he has courage to lose sight of the shore*”. He stressed the need for identifying a suitable career, which matches the skill sets of an individual. Unless one persevered and strove for perfection, one could never achieve one’s goal.

Mr. Vivek Harinarain in his presentation said that the Civil Services examination conducted by the UPSC has not lost its prestige and value even amidst the recent popularity of IT and careers in management. He identified the fact that every year around 4 lakh people apply for the UPSC exam, which selects to fill around 400 vacancies. He highlighted about the examination procedure and selection process of the Civil Services which takes almost a year. He stressed the fact that it is necessary for each and every student to imbibe facts from all sources. He advised the students to be like race horses who have blinkers that restrict the horse’s vision so that the race horse would only look at the finish point. Similarly the students must have a determined mind and put their full effort in achieving success in the UPSC exam. He listed the 27 services for which a common examination is conducted by the Union Public Service Commission (UPSC). He also warned the

students to avoid being overconfident as there is nothing like engineering students have an edge over the other students. He said that an Agriculture student writing the Agriculture optional subject will be on the same footing with an engineering student undertaking the Civil Engineering optional subject. He presented ideas required for General Studies preparation and also suitable methods required to be undertaken while preparing for the Main Exam as well as strategy to face the interview board.

Mr. Vivek Harinarain said that people who are interested in joining the Civil Services for the money should avoid doing so. It is the thrill of the job, which motivates people to perform better and thus overcoming the need for more money. He concluded his seminar with the saying, “*The real measure of a man’s wealth is how much he would be worth if he lost all his money*”. The talk was followed by a question answer session from the participants, which numbered around 300.

After the talk, Dr. R. Arumugam, HOD of EEE Dept. presented a memento to Mr. Vivek Harinarain. Hari Ganesh, IEEE Student Branch Vice-Chair proposed the vote of thanks.

Report by: Prithvin Rajendran, Student Branch Chair, SSN College of Engineering

National Workshop on VLSI Systems at SVCE



A two days national workshop on VLSI Systems was organized by the Department of Computer Science and Engineering in association with IEEE Madras Section at Sri Venkateswara College of Engineering, Sriperumpudur during 13-14, mar 2009.

The workshop was inaugurated by Dr. R. Ramachandran, Principal, Sri Venkateswara College of Engineering, Sriperumpudur.

On 13th Mar, in the first session Mr. Aravind Vasudevan, Senior Research Trainee, WARFT, Chennai spoke about “Low Power

High Performance Node Architectures: Beyond VLIW”. In the next session Mr. Balaji Subramaniam, Senior Research Trainee, WARFT, Chennai, gave a talk on ‘Network on chip (NOC) for Super Computer on Chip (SCoC)’. The third session was handled by Dr. C. P. Ravikumar, Texas Instruments, Bangalore, who delivered a talk on “Design, Verification, and Test in Nanometer Technologies”.

On 14th Mar, Dr. Shankar Balachandran, Assistant Professor, Dept. of CSE, IIT Madras, delivered a lecture on ‘Design Automation for VLSI’. Kunal K. Korgaonkar, (Research Scholar), CSE Dept, IIT Madras, delivered a lecture on ‘Multi-Core Systems and Transactional Memory’. Mr. K. S. Venkataraghavan, Project Consultant, RISE Lab, IIT Madras, Chennai, gave a talk on “Blue – Spec (HDL)”.

The workshop concluded with a lecture on “Digital Design Verification and Testing” by Dr V. Kamakoti, Associate Professor, RISE Lab,

Dept. of CSE, IIT Madras, Chennai, who also was the chief guest for the valedictory function and gave away the certificates to the participants.

Ten Business Impacts of Social Networking

1. Corporations will change the way they communicate
2. Corporations will change their vision
3. Corporations will change their organization
4. Collective intelligence and customer experience will lead innovation
5. Networking will be key to employee excellence
6. Employee mobility will increase
7. Corporations will adapt their motivation and career path systems
8. IT/telecoms applications will mutate.
9. Corporate adoption will happen at different speeds
10. Social Networking may allow increased revenue

Seminar Career Development for Engineers at Kumaraguru College of Technology



Department of Electrical and Electronics Engineering & IEEE – KCT chapter organised one day National seminar on “Career Development for Engineers” on 7th Mar 2009.

Prof. S. Baskar, Department of Mechanical Engineering, Kumaraguru College of Technology delivered a lecture on “Professional Values of Engineers”. The Second session focussed on “Building Entrepreneurship Qualities”, Mr. P. Veeramuthu, Managing

Director, Macro Print Ltd elaborated the qualities required to become successful entrepreneurs. Mr. S. Sivashankar, Engineer, Robert Bosch Industries Pvt. Ltd shared his experience on “Placement Opportunities in Core Industries”.

Mr. Money Thomas, Chief Executive Officer, INFAACT, Coimbatore conducted a self evaluation exercise on “Self Analysis by SWOC (Strength, Weakness, Opportunities, Challenges) Methodology”.

72 students from various engineering colleges participated in this seminar. The participants found the seminar very useful and beneficial to prepare them for their career development. Mrs. T. Shanthi, Mr. J. Ram Prabu and Ms. G. Poorani were the coordinators of this program.

Revival of the Student Branch at K. S. Rangasamy College of Technology



Though the IEEE student Branch of K.S. Rangasamy College of Technology was started in the year 1999, the activities could not be continued for the past 6 years due to administrative reasons. However, the student Branch was revived on 4th April 2009 in the presence of Dr. M. Madheswaran, Chairman, IEEE Electron Devices Chapter, India Section. Various committees such as Membership Development Programme, Newsletter and Website Design were formed. The students of 1st year UG and PG participated. The response from the students for the meeting was overwhelming and the proceedings were lively. Many students were also eager to become members.

In the afternoon, a separate session was conducted by the guest speaker Dr. M.

Madheswaran. He addressed the participants on the benefits of the IEEE student membership. Then, he delivered a talk on “Recent Trends in Nano Electronics”. The talk was interactive. The Heads of the Institution, Directors and Deans of various faculties participated in this programme and were very happy about the revival of the IEEE student branch at the college.

Report by: Dr. N. Santhiyakumari, Prof, ECE, KSRCT, Email: santhiyarajee@rediffmail.com

IAS Chapter Activity at AVIT

Industry Applications Society Madras Chapter organised a technical lecture program on 11th March 2009 at Arupadai Veedu Institute of Technology, Vinayaka Missions University. Dr. G. V. Rao, Chairman, IEEE Industry Applications Society, Madras Chapter delivered a lecture on ‘Energy Efficient Transformers’ and Mr.V. V. S. Srinivasa Rao, Secretary, IEEE – Industry Applications Society, Madras Chapter spoke on ‘Energy Saving Luminaries’.

The meeting was attended by more than 400 students, besides office bearers of students wing of IEEE, Faculty Members and Dean & Head of the Department of Electrical & Electronics Engineering.

Dr. G. V. Rao, enthralled the audience with his speech about the future life of the world and also on the recent development in the transformer manufacturing using edible oils, super conductors and the R & D on coreless distribution transformers and also on the recent developments in energy efficient transformers. Mr. V. V. S. Srinivasa Rao, presented a power point presentation on Energy Saving Luminaries and the recent developments in outdoor lighting and design of mobile and permanent lighting mast towers.

Dr. G. V. Rao also emphasized on the advantages of joining IEEE organization and a short film on Industry Applications Society was shown to the audience. Application forms were distributed to students to enable them to become members. Technical brochures and catalogues were distributed to all the participants.

Additions to IEEE Madras Section Library

- **Hardcopy Proceedings of NCVESCO’09:** 2nd National Conference on VLSI, Embedded Systems, Signal Processing and Communication Technologies, held during 8-9, Apr 2009. Organised by Aarupadai Veedu Institute of Technology, Vinayaka Missions University in association with IEEE Madras Section, IEEE Computer Society, Madras Chapter, IEEE Communications Society, Madras Chapter, IETE Madras Chapter and ISTE Madras Chapter. Edited by D. Vijendra Babu. Published by Excel India Publishers, New Delhi. pages 252 + XIV.
- **CDROM Proceedings of NCVESCO’09**

All contributions to the library will be acknowledged through this column in the newsletter. All the organizers of the conferences supported by the IEEE Section and Society Chapters are requested to send a copy of the proceedings for adding into the library at the Section.

Inauguration of IEEE KCT student chapter “Women In Engineering” affinity group



IEEE – KCT Student Chapter inaugurated the “Women In Engineering” Affinity group in Kumaraguru College of Technology on 13th Mar 2009.

Prof. K. Regupathy Subramanian, IEEE counselor welcomed the gathering. Dr. V.

Lakshmi Prabha, HoD/CSE, Government College of Technology, Coimbatore delivered the inaugural address. She emphasized on the empowerment of women in Engineering field. Prof. R. Annamalai presided over the function.

A short movie depicting the IEEE activities organized during the year 2008-2009 under Sangamam project and PPT on need for Women in Engineering was presented.

Mr. S. N. Ravi Chandran, Treasurer, Cyber Society of India delivered a Guest Lecture on Cyber Crime and its Prevention. The lecture was interactive and created awareness about the Cyber Crime among the students. Ms. Abirami, Secretary, IEEE KCT Student Chapter proposed the Vote of Thanks.

CIO Meet on “Performance excellence through insight and innovation”

IEEE Computer Society, Madras Chapter & the CIO Forum of CSI Chennai in association with team Computers had organized a CIO meet on the theme “Performance excellence through insight and innovation” which helps one to discover a new way of approaching business decisions to sail through in tough times on 16th Mar 2009.

Mr. H.R. Mohan, Chairman, IEEE CS & the Convener of the CIO Forum of CSI Chennai welcomed the gathering and highlighted the need for managing information and adopting innovative methods to beat global competition.

Mr. Ranjith Melarkode, CTO, Sathyam Cinemas gave a presentation on “Technology Playing at a Cinema near you” in which he had explained and demonstrated how the digital technology has changed the entertainment & gaming industry and how Sathyam had adopted to the technology and innovated to become the leader in the country.

Mr. Ranjan Chopra, MD, Team Computers Pvt. Ltd in his address dealt on ‘Improving business performance: Co-creating profits with I.T’. He had stressed that information visibility leads to better performance/profits and spoke on lean & transformed processes and then demonstrated the creation of dashboard analytics & reports using QlikView (a flexible business intelligence



tool for reporting and analysis) to measure & improve productivity, to control resources efficiently, identify & reduce leakages and present a single version of truth.

Mr. A Rajendran, Director, Team Computers in his presentation on ‘Google your enterprise’ explained how Google can help to increase sales and manage corporate information. The Google search appliance was also exhibited at the venue.

At the end, Mr. P. Sudhir Rao, CEO, IndusAge Advisors Limited highlighted on the information transparency and the corporate governance and the role of tools and technologies in achieving it.

The meet which had attracted about 100 participants from corporate organizations, academia was coordinated by Mr. Lakshminarayanan, Regional Manager – South and Mr. Sanjiv Malaviya, Manager Business Development, Team Computers.

Forthcoming Events

Faculty Development Programme (FDP) on Intelligent Software Agents for Knowledge Engineering: 24 – 25, April 2009 at Coimbatore. Organised by IEEE Madras Section & Karunya University. Contact: IEEE Madras Section at ieeemas@airtelmail.in / Dr. V. Saravanan at saravanan@karunya.edu

Faculty Development Programme (FDP) on Challenges in Information Security: 23 – 23, May 2009 at Coimbatore. Organised by IEEE Madras Section & Karunya University. Contact: IEEE Madras Section at ieeemas@airtelmail.in / Dr. R. Elijah Blessing at elijahblessing@karunya.edu

NCOSS-09: National Conference on Open Source Software: 25-26, May 2009 at Mumbai. Organized by C-DAC, Mumbai and supported by IEEE Computer Society, Mumbai and Chennai Chapters, Computer Society of India, Div II on Software & SIG-OSS. Contact: E-mail: ncoss@cdacmumbai.in, Web: <http://ncoss.cdacmumbai.in> Ph.: +91-22-27565303.

ICAC-09: International Conference on Advanced Computing: 6–8, Aug 2009 at Trichy. Organized by Cauvery College for Women and Bharathidasan University Technology Park. Contact: E-mail: cauveryintconf@csbdu.in Website: www.butp.org/ICAC09

IAMA 2009: International Conference on Intelligent Agent & Multi Agent Systems - IAMA2009: 22 - 24 July 2009, Chennai. Organized by Aarupadai Veedu Inst. of Technology, Chennai in association with IEEE Madras Section & IEEE Computer Society — Madras Chapter and Computer Society of India — Division II on Software. Contact: E-mail: rponnusamy@acm.org Website: <http://www.iama09.org> Ph: +91-44 - 27443801 / 04 / 08 / 09

International Conference on Millennium Developmental Goals: The Role of Information and Communications Technologies: 27-29 December 2009, Chennai. Organized by R.M.K. & R.M.D. Engineering Colleges in Association with IEEE Computer Society — Madras Chapter and Computer Society of India — Div II (Software) & Chennai Chapter. Contact: E-mail: mdgict@rmk.ac.in Web site: www.rmkec.ac.in/mdgict Ph: +91- 44- 27925338, 27925899 (Dr. T. Srinivasan, Associate Dean)



Announcement & Call for Papers
**International Conference on
Millennium Developmental Goals: The Role of
Information and Communications Technologies**
27-29 December 2009, Chennai, India
Organized by
R.M.K. & R.M.D. Engineering Colleges
In Association with
IEEE Computer Society - Madras Chapter
Computer Society of India - Div II (Software) & Chennai Chapter

Prelude: The National Academy of Engineering of the National Academies of the United States, in their recent analysis of the grand challenges to engineering for the new millennium highlight the challenges in these words - "For all of these advances, though, the century ahead poses challenges as formidable as any from millennia past, as the population grows and its needs and desires expand, the problem of sustaining civilization's continuing advancement, while still improving the quality of life, looms more immediate. Meeting these challenges must make the world not only more technologically advanced, but also more sustainable, safe, healthy and better. The Millennium Development Goals (MDGs) of the United Nations also highlight these challenges ahead. The rural areas of the developing countries hold the key to the attainment of the goals. The promotion of rural development in a sustainable way increases employment opportunities in rural areas, reduces regional income disparities, stems pre-mature rural-urban migration, and ultimately reduces poverty at its very source. A spatially balanced development is a desirable objective in many societies. The crucial role of the Information and Communication Technologies (ICT) can not be understated in meeting these challenges in all their facets from healthcare, disaster mitigation, e-governance, education, entertainment, rural banking, security, access to food, skill development, and employment, to improved quality of life. The disastrous consequences of the global melt down have further accelerated the need to look at sustainable and development with emphasis on equity and inclusivity. The plenary lectures and technical papers presented in this conference will focus on these issues.

Call for papers: We seek insightful contributions from research scholars, academia and professionals and policy makers in the form of papers and cases on the theme as well as a broad range of issues relating to innovative applications of ICT in achieving the MDG, including:

Education, training and skill development; Healthcare, healthcare management and access to affordable healthcare; Telemedicine and telemetric diagnostic tools, bio-medical applications; Geographical Information Systems, Agricultural Development; Disaster prediction, information dissemination, and mitigation; Educational entertainment; Improved and effective communications including mobile communications; Rural banking, internet banking, mobile banking, security of transactions; Affordable and secure insurance services and products for rural areas; Web applications and Web services; e-learning, e-government and e-society; Communication Networks; Healthcare informatics; Employment generation and opportunities for self-employment; Empowerment of rural women, automation in daily chores and enhancement of quality of life for the aged and handicapped; ICT issues related to innovative products and services to cater to the needs of the market segment at the "Bottom of the Pyramid"; Roles of NGOs, Government and the Corporate, CSR; Innovation and Innovation Management in related Products and Services; Eco friendly computing devices and other topics of relevant interest from core areas of engineering and technology.

Abstracts of all presented papers and cases will appear in the CD-ROM and printed conference proceedings. The authors will have the choice to have their abstracts only/ or full papers published in the conference proceedings. There will be special sessions for presentation of work-in-progress of completed research papers in the research forum exclusively for research-scholars.

Important Deadlines: Extended abstract (500 words) submission: May 15, 2009; Intimation of acceptance: July 31, 2009; Full paper (6000 words) submission: October 15, 2009; Camera-ready manuscripts submission: November 15, 2009

Please mail the abstracts to: mdgict@rmkec.ac.in and for further details, please visit <http://www.rmkec.ac.in/mdgict>

For further assistance, please contact:

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Mr. H.R. Mohan, Chairman, CSI Div II (Software) & IEEE CS - Madras Chapter, Email: hrmohan@gmail.com



IEEE MADRAS SECTION

FACULTY DEVELOPEMENT PROGRAMME



Course Title:

Challenges In Information Security

Date:

May 22nd & 23rd, 2009

Organised by:

School of Computer Sciences and Technology



CONTACT :

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Course Content:

- Fundamentals of Information and Network security essentials
- Recent trends in Security
- Various issues in Information and infrastructure security
- Mobile and Wireless security
- VOIP Security
- Peer-to-Peer Security
- OS Security
- Distributed Systems Security
- E-Commerce Security
- Multimedia Security
- Biometrics

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1. Eminent resource persons from IIT Madras, Anna University Chennai.
2. Security experts from National Informatics Center, BHEL Trichy.
3. Discussions on current security scenarios.

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Posted On : 24th April 2009

Posted at: Egmore RMS (Patrika)

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