

Chairman's Message



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Dear Friends,

HAPPY 125th Anniversary of IEEE!

You are aware that IEEE Madras Section is organizing IEEE's 125th Year Celebrations at Madras Institute of Technology, Chrompet, Chennai on August 27, 2009 with the participation of Dr. John Vig, IEEE President and Dr. P. Mannar Jawahar, Vice Chancellor, Anna University Chennai. All the IEEE Student Branch Counsellors, Student Volunteers and other Members are invited to attend the celebrations and make it a historic event.

IEEE completed its 125 years of "Engineering the Future" and serving the humanity. Keeping this in mind, IEEE Madras Section has planned number of activities to celebrate IEEE's 125th Anniversary in a better and productive way. The highlights of day are 'invited talks' by Dr. Ashok Jhunjhunwala, Professor, Department of Electrical Engg., IIT Madras on "Towards Technology Leadership in Wireless Communication" and Dr. M. Anandakrishnan, Chairman, IIT Kanpur and Chairman, Science City Chennai on "Technologies for Sustainable Development". Achievers are going to be awarded. The present & past Chairpersons of IEEE Madras Section, the Chairpersons of Society Chapters & WIE and GOLD affinity Groups and Execom Members of the Section will also be felicitated. The students will get an opportunity to interact with the IEEE President Dr. John Vig and experts regarding their future in different fields. An on-spot general knowledge quiz competition is being organized for student members of IEEE Madras Section to tickle their cognition. Students will also present a cultural program at the end of the ceremony.

The 125th Year anniversary gives an opportunity to honour the IEEE members who made valuable contributions and support for the development of future technologies which will motivate the participation in the IEEE activities in the future.

Being the No.1 in IEEE Region 10 in terms of number of student branches and membership strength, the IEEE Madras Section is planning to celebrate IEEE's 125th Anniversary in all its grandeur in Chennai. Hence, we solicit the support and co-operation from all the IEEE members to get involved in these celebrations and take advantage of the opportunity to be a part of something special.

Editorial Team

Mr. H.R. Mohan, Dr. S. Salivahanan, Dr. M. Ponnaivaikko,
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,

When this issue of LINK reaches you, we will be just few days ahead of the much eagerly awaited celebrations of the 125th Anniversary of IEEE at the Madras Section. – a memorable event in which the IEEE President, Dr. John Vig and the Anna University VC, Dr. Mannar Jawahar will be addressing us. Two special invited lectures – "Towards Technology Leadership in Wireless Communication" by Dr. Ashok Jhunjhunwala of IIT Madras and "Technologies for Sustainable Development" by Dr. M. Anandakrishnan, Chairman, IIT Kanpur & Science City Madras followed by student centric programmes will keep us all fully engaged. If you have not registered to participate, pl. do so by filling up the online registration form at <http://ewh.ieee.org/r10/madras/>

LINK congratulates Mr. Sampathkumar Veeraraghavan, GOLD member for receiving the IEEE Foundation funding of up to \$13,420 for the project "Novel Screening System for Development Disorders".

The reports of the following six events by the IEEE Computer Society appear in this issue of LINK: International Conference on "Intelligent Agent and Multi-Agent Systems"; Workshops on "Green ICT – make it FOSSible", "Software Reliability & Testing" and "Technology Enhanced Learning Through Moodle"; a technical talk on "Virtualization - Architecture, Infrastructure, Strategy" and a CIO event on "Emerging Logistics in India, Changing Infrastructure and Technology"

Short reports on the FDP on "Time-Frequency Signal Analysis" held at IIT Madras, guest lectures at Sri Venkateswara College of Engg and St. Joseph's College of Engg along with the website launch & lecture at Sri Muthukumaran Inst. of Technology and the proceedings of the technical meeting on "Power Sector Reforms today" also appear in this issue. We are sure that the review of the book "Successful Management Techniques" by Dr. G.V. Rao, Chairman, IEEE IAS, Madras Chapter would interest many of our readers.

LINK congratulates Ms. K.N. Vaishnavee of St. Joseph College of Engg and Mr. R. Saranyaraj of Park College of Engg and Technology, the winners of Info Contest 0907 who will receive a prize of Rs. 500/= each sponsored by SRA Systems.

LINK is happy to record the visit of Ms. Angela Burgess, Executive Director, IEEE Computer Society. She had addressed the delegates at the NASSCOM meet at Chennai on the educational and testing activities of IEEE CS and also participated in the inauguration of the TIFAC Core centre on Machine Vision at Rajalakshmi Engg College. She was impressed with the activities being organized at the Section and Computer Society.

We invite proposals for participating in the Digital Literacy Programme which aims at empowering the rural women and youth. Reader's attention is drawn to the four forthcoming international conferences being held at Chennai for paper presentations and participation.

International Conference on “INTELLIGENT AGENT & MULTI-AGENT SYSTEMS”



The International Conference on Intelligent Agent & Multi-Agent Systems 2009 (IAMA09) organized by the Department of Computer Science & Engineering, Aarupadai Veedu Institute of Technology-Vinayaka Missions University held at Chennai, India during 22 – 24 July, 2009. The Conference was co-sponsored by IEEE Madras Section, IEEE Computer Society Madras Chapter, Computer Society of India Division II on Software, Council of Scientific & Industrial Research, Department of Information Technology Govt of India and other small industries located in and around Chennai. The conference attracted about 225 delegates from all over the country both from Academia, Industry and Research & Student Community.

In response to the call, a total number of 298 papers were received for the conference. And they were peer reviewed by the members of International Program Committee. The International Program Committee has envisaged a comprehensive technical program of 12 sessions covering a broad spectrum of topics in Intelligent Agent & Multi-Agent Systems and selected 116 papers out of which 82 papers were published in the IEEE DVD Conference Proceedings. To encourage and honor the high quality papers, special prize and certificate were awarded to the best 12 papers (one for each session).

As part of the conference, the following pre-conference tutorials were arranged on the first day, 22 July 2009.

- Agents and the Semantic Web by Prof. Michel N Huhns, Director, Center for Information Technology, University of South Carolina, USA,
- Agent Based Systems for Human Learning and Entertainment by Dr.

Hiranmay Ghosh, Principal Scientist, TCS Innovation Labs, Delhi, India.

- Autonomic Software Agents by Dr. T. Chithralekha, Reader, Department. of Banking Technology, Pondicherry University, Puducherry, India
- Agent-Oriented Software Engineering by Dr. Onn Shehory, IBM Haifa Research Lab, Tel Aviv Site, Haifa University, Israel

The conference was inaugurated on 22 July 2009 evening at VIGYAN Auditorium SERC, CSIR Campus, Taramani, Chennai. Dr. N. R. Alamelu, Principal, Aarupadi Veedu Institute of Technology welcomed the gathering. Dr. R. Ponnusamy, Organizing Secretary of the conference, briefed about the theme of the conference, starting from the stage of conceiving the proposal up to the planning of the sessions. Dr. A. S. Ganesan, Pro-Chancellor, Vinayaka Missions University, in his presidential address, elaborated on the research activities of the Vinayaka Missions University and the steps being taken to establish a Center of Excellence in Artificial Intelligence. The proceedings of the conference in IEEE DVD form was released by the chief guest Shri. K. Jayarama Krishnan, Vice-President, Global Alliance, TCS and the first copy was received by Dr. Salivahanan, Chairman, IEEE Madras Section. The conference souvenir was released by Dr. Arunachalam Scientist and Advisor (MGT), SERC Chennai and first copy was received by Mr. H. R. Mohan Chairman, IEEE Computer Society & Software Division of Computer Society of India. Shri K. Jayarama Krishnan, in his inaugural and keynote address, discussed the importance and significance of Artificial Intelligence in day-to-day life. He wanted researchers to accept the challenges and work on solutions using Artificial Intelligence

rather than challenging every aspect. Dr. S. Salivahanan, Shri H R Mohan, Dr. S. Arunachalam, and Shri S.Basker, General Manager, Vinayaka Missions University felicitated. The Meeting ended with vote of thanks proposed by Prof.P.T.Sivasankar, HOD, Dept. of Computer Science & Engineering.

During the conference, the keynote talks were delivered by distinguished keynote speakers, namely Professor Michael N. Huhns (USA), Dr. Onn Shehory (ISRAEL) and Dr. Ravi Gorthi (INDIA). Twelve technical sessions were organized on 23rd and 24th July 2009 and they included areas such as: Web Based Systems, E-Governance, E-Learning & E-Contents, Web Mining, Wireless Networks, Mobile Networks, Intelligent Image Processing, Soft Computing, Security Systems, Optimization Techniques, Social Computing, General Intelligent Systems and a Poster Presentation Session.

Realizing the importance and significance of the development in the field of Artificial Intelligence, a panel discussion was also held on “Scope and Challenges of Beginning an Asian Association of Artificial Intelligence” on the second day of the conference. The panel deliberated on various aspects of AI and suggested the formation of the Association at the National Level.

For copies of the DVD proceedings at a nominal cost, please contact the Programme Chair, Dr. Ponnusamy Ramalingam at rponnusamy@acm.org

Report by Dr. R. Ponnusamy, AVIT

Congrats to Mr. Sampathkumar

LINK is pleased to inform the readers that the IEEE Foundation had recently reviewed the grant applications and made a decision to provide Mr. Sampathkumar Veeraraghavan from the Madras Section of the IEEE Foundation funding of up to \$13,420 for his project “Novel Screening System for Development Disorders” and the same will be paid in 2009.

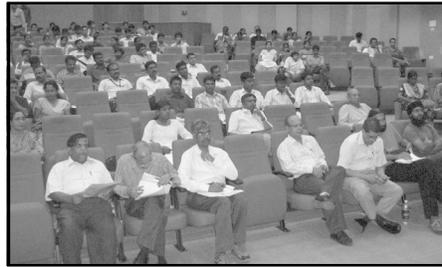
IEEE TV has launched an exclusive video program on the humanitarian activities titled “Profiles in Volunteering: Veeraraghavan” and the same can be viewed at http://www.ieee.org/portal/site/ieeetv/menuitem.6ce799f946c20d660374ca695bac26c8/index.jsp?&pName=ieee.tv.viewer&path=membportieee_tv&file=CNT_profiles_Veera.xml&vid=111877&play=true

LINK congrats Mr. Mr. Sampathkumar for putting the IEEE Madras Section in the world map of IEEE.

Workshop on “Green ICT – make it FOSSible”



*At the Inaugural session –
Prof. D. Janakiraman, Dr. S. Santhakumar,
Mr. S. Ramakrishnan and Mr. H.R. Mohan*



Section of participants

A workshop on “Green ICT – make it FOSSible” was organised at IIT Madras in association with Centre for Development of Advanced Computing, National Resource Centre for Free and Open Source Software, National Informatics Centre, IEEE Computer Society, Madras Chapter and CSI Div II on Software on 11th Jul 2009. The workshop was aimed to create awareness on Green ICT and how FOSS could be used to achieve green computing and other related initiatives to the professional, student and faculty members and facilitate them to practice in their establishments. About 150 participants attended this workshop.

Prof. D. Janakiraman, Dept. of CSE, IIT Madras welcomed the gathering and informed the participants on the background on which the workshop was organised. Mr. H.R. Mohan, Chairman, CSI Div II and IEEE CS Madras, in his introductory remarks said that the topic, Green ICT is of global importance and all the nations are concerned on the global warming issues due to green house gas (GHG) emissions. He then explained the structure of workshop sessions which aims to provide the participants a broader view of green computing and climate change.

Inaugurating the workshop, Dr. S. Santhakumar, Dean (Academic Courses), IIT Madras said that Green ICT is beyond reducing power consumption and relates to production of equipment using less toxic components and reuse and recycle the end of life products to reduce their environmental impacts. He also elaborated on the initiatives taken by IIT Madras in maintaining the campus green.

Mr. S. Ramakrishnan, Former Director General, CDAC, in his keynote address explained about Green ICT concepts and highlighted on the various statistical information relating to GHG emission across the world and

its impact on the environment. He also touched on the growing concerns by the world leaders and the on going discussions on climate change. He was of the opinion that the developed nations are trying to impose restrictions on developing economies such as India and China to reduce the GHG emission which may ultimately have a severe impact on their developmental activities.

In the first technical session, Mr. M.R. Rajagopalan, Director, CDAC, Chennai spoke on Open Source – a platform for innovation and a public resource and the Indian scenario. He also gave an overview of the NRCFOSS set up by CDAC along with Anna University which aims to contribute to the growth of FOSS in India through Research and Development, Human Resource Development, Networking and Entrepreneurship Development, as well as serve as the reference point for all FOSS related activities in the country including the creation and maintenance of this national FOSS Portal.

Mr. V. Narayanan, Consultant, Center of International Cooperation for Computerization, Singapore, in his address said that the OSS Asia initiative aims to share knowledge and IT resources, help peers and neighbours and promote affordable computing. Further, he said that open source ensures reuse of software and open standards helps to achieve interoperability. Under AOSS scheme, training the trainers programmes are held in Asia Pacific including in India with the support of CSI & IEEE CS. In his role as the country co-ordinator for New Zealand for AOSS, he explained the green initiatives of both Australia and NZ. He also briefed on the Energy Standards Information System of APEC (APEC-ESIS) whose objectives include the provision of information about appliance and equipment energy standards and regulations and promote green ICT

Mr. H.R. Mohan, AVP (Systems), The Hindu, Chennai, Chairman, Software Division, CSI & IEEE Computer Society, Madras, in his talk on creating awareness of Green ICT said that in India awareness on green ICT is not very high but it is on the rise. He added that the government has taken major initiatives under climate control panel with eight national missions set up to monitor and facilitate sustainability of environment. He also added that the major corporate companies have come out with schemes to promote Green ICT and practicing green computing.

Some of the other sessions in the workshop included the following: Open source and Green ICT by Mr. Sreekanth Balakrishnan, Technical Lead, Essentia Soft Solutions; Green ICT solutions and FOSS: NIC experience by Mr. R. Ramesh, Technical Director, NIC, Chennai; Green ICT initiatives in corporate IT setup by Mr. N. Chandrasekaran, Special Director – IT, Ashok Leyland, Chennai; Powering Green IT by Mr. Rajeev Agar, Channel Manager (India), Raritan India & Middle East; and FOSS tools for Green ICT – demo of Power Top and Thin Clients by Mr. Bharathi Subramanian & Mr. P. Raman, ILUG-Chennai.

Towards the end of the workshop, a panel discussion to brainstorm on Green ICT and FOSS OSS community development in Asia in particular in India with a focus on Green ICT was coordinated by Dr. P. Balasubramanian, Head, Open Technology Centre, NIC, Chennai. The panel which included both working and practicing IT professionals and academicians as members concluded that the professional bodies should come together in promoting Green ICT by educating the industry users and students right from now and help the country to maintain the GHG emission at a low level and ease global warming.

*Report by Mr. H.R. Mohan, Chairman, IEEE
CS & Div II, CSI*

Forthcoming Events

National Workshop on “Globus Tool Kit & Research Directions in Computational Grids”: 17-19, September 2009 at SSN College of Engineering. For details contact: Dr. Chitra Babu, Professor & Head, Department of CSE. Email: CSE.GCWorkshop@ssn.edu.in

NACLIN 2009: 12th National Convention on Knowledge, Library and Information Networking: 22-25 September 2009, Chandigarh. E-mail: hkkaul@gmail.com
Web: www.naclin.org

Workshop on “Software Reliability & Testing”



Dr. T.V. Gopal on “The Quality Imperative”

A two day national level workshop on Software Reliability and Testing was organized during 31st July and 1st August 2009 by the Department of Information Technology, SSNCE in association with IEEE Computer Society, Madras Chapter, DIV II on Software, Computer Society of India, and Centre for Reliability, Ministry of Communication and Information Technology. The workshop attracted a participation of 40 delegates. The participants were from both academic institutions and industry and many of them were from outstation.

On the first day, the workshop commenced with a session on “Software Reliability Models & Metrics” by Mr. D. Damodaran, Scientist ‘D’, Centre of Reliability, Ministry of Communication and Information Technology. Mr. Damodaran introduced the



Dignitaries at the Valedictory Session from left to right - Mr. I. Joe Louis Paul, Mr. K. R. Jayakumar, Mr. H. R. Mohan, Dr. J. Raja & Ms. S. Mohanavalli

audience to various software reliability models and highlighted the important metrics for Software Reliability. This was followed by an interactive session on “The Quality Imperative” by Dr. T.V. Gopal, Professor, Dept of CSE, College of Engineering, Anna University, Chennai. Dr. Gopal enthralled the audience with his anecdotes and at the same time explained some deep concepts of software quality. In the afternoon session, Mr. R. Aravindran, Practice Manager, Automation Centre of Excellence, Maveric Systems, Chennai emphasized on setting the right expectations for Software Test Automation. Mr. Aravindran was of the view that the key to automate the testing process was in finding the right set of test cases to automate.

The day II commenced with a session on “Software Testing Principles, Strategies & Test

Case Design” by Ms. T.M.S. Rekha, Asst. Manager, Testing Services, Cognizant Technology Solutions, Chennai. Ms. Rekha charted the course of how testing is performed in the industry with a number of examples. Ms. B. Rajalakshmi, Senior Manager - Technology, Thinksoft Global Services, Chennai was the speaker of the second session of the day II. She gave an insight into the Banking and other Financial Domains. Her delivery was interspersed with lots of real life examples and testing scenarios. The final session of the day titled “Software Test Architecture & Live Presentation of Test Automation Tools” was handled by Mr. K.R. Jayakumar, Director, AmitySoft Technologies Pvt. Limited, Chennai. Mr. Jayakumar and his team gave an illustrative demo of various Test Automation Tools.

The two day workshop ended with the valedictory address by Mr. H.R. Mohan, Chairman, IEEE Computer Society, Madras Chapter and CSI Div II on Software and Associate Vice President (Systems), The Hindu. Certificate of participation and a CD containing the session presentations were given to all the participants. Excellent feedback was given by the participants and they desired further informal and egroup based interactions for keeping updated in this fast developing testing field. The entire workshop could be summed up as one of the participants put it – “A very well tested and reliable project accomplished with zero defects”.

Report by Ms. S. Mohanavalli and Mr. I. Joe Louis Paul, Co-ordinators.

Workshop on “Technology Enhanced Learning Through Moodle”



The “Enhanced Learning” workshop was held at SKR Engineering College from 24th-25th July 2009. It was organized by the School of computing of SKR Engineering College in association with IEEE Computer Society Madras Chapter, Computer Society of India Div II on Software and Amphisoft Technologies Pvt. Ltd. The workshop was presented by Dr.

R. Pradeepkumar, CEO of Amphisoft Technologies Ltd, Coimbatore and his team. Nearly 60 staff from various colleges and companies attended the two days workshop. Lecture and practice sessions made the participants comfortable to tryout the software.

The objective of the workshop was to impart enhanced learning through the software Moodle, which helps the students and teachers to have better interaction. It has been developed to improve the teaching and learning process interesting, as students of this era find the conventional method of teaching boring.

The software ‘Moodle’ is an open source, user-friendly, interactive, dynamic and secure software. It makes the evaluation of test papers and assignments easy for the teachers. For the students, with Moodle, we can create discussion forums and chat rooms, so that they

could use it to exchange views and clear their doubts anywhere and anytime. Other than the teaching part, all the other activities like quiz, test, attendance, information sharing, survey, feedback, etc can be done using Moodle. Using this software, the student can learn anytime and also can get the notes, in case he/she missed any class. For the most part, Moodle makes teaching interactive and reduces the manpower. As the classroom teaching involves a lot of teachers’ effort and at times students find it difficult as well to cope with the teachers, Moodle will be very useful if implemented in colleges.

Visit IEEE Computer Society Madras Chapter at <http://ieeecs-madras.managedbiz.com/>



**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 16th edition in the series of Info Contest – a regular column in our newsletter IEEE MAS LINK. The content mix now includes some General Knowledge questions in addition to IT related. This, we believe would provide an overall exposure and also facilitate more participation. As we are celebrating the IEEE’s 125th Anniversary, a set of questions relating to IEEE appears in this edition of the contest.

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.

Members are encouraged to participate in the contest and win prizes. Answers are to be sent by EMAIL ONLY. Please follow the guidelines provided at the end of the questions.

Info Contest – 0908

This contest has 25 questions in five sections — A, B, C, D & E — each having five questions.

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

- A1. DIF
- A2. SCSI
- A3. PING
- A4. MICR
- A5. CCITT

B. Fill in the blanks / Provide the answer.

- B1. AIEE and _____ merged to form the Institute of Electrical and Electronics Engineers (IEEE)
- B2. IEEE has 38 societies and _____ technical councils
- B3. Name the IEEE’s highest award which recognizes an individual for an exceptional contribution or extraordinary career in the IEEE fields of interest.
- B4. Name the largest society of IEEE
- B5. Name the IEEE’s digital library which provides full text access to its technical literature.

C. Provide the answer.

- C1. Name the slang term that describes using the Internet or ISP outages as an excuse for not completing a task
- C2. Purchasing a domain name that is a variation on a popular domain name with the expectation that the site will get traffic off of the original site because of a user’s misspelling of the name is known as _____
- C3. Name the unit of measurement for the speed and movement direction of a computer mouse
- C4. Name the algorithm used for circumventing the CSS, the copy protection used in DVDs, allowing the decryption of the digital data
- C5. “Because you are worth more” is the tagline of the website _____

D. Provide the answer.

- D1. Whose nickname is “The Haryana Hurricane”
- D2. Name the third astronaut of Apollo 11 mission who did not set his foot on the moon
- D3. NASA declared this small town in Bihar as the “best spot” to view the recent total solar eclipse. Name it
- D4. Which jail in India has the dubious distinction of the largest prison in the Asia Pacific
- D5. “Knowledge is power.” Who said this

E. Fill in the blanks / Provide the answer.

- E1. After the world’s cheapest car, Tata Motors is set to launch the world’s first air fueled car named as _____
- E2. First Sunday of August is celebrated as _____
- E3. Swine Flu : H1N1 = Avian / Bird Flu : _____
- E4. The color of the blood of cockroach is _____
- E5. Maruti 800 : Harpal Singh = Nano : _____

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

In the Subject,

- Write the Contest No. (Info Contest – 0908) in the subject line.

In the body of the mail,

- In the first line, write the contest No: Info Contest – 0908
- 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 your college / organization name
- In the sixth line, write the answers to the five questions of Section A, separated by comma.
- In the seventh line, write the answers to the five questions of Section B, separated by comma.
- In the eighth line, write the answers to the five questions of Section C, separated by comma.
- In the ninth line, write the answers to the five questions of Section D, separated by comma.
- In the tenth line, write the answers to the five questions of Section E, 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 Sep 2009.

**Info Contest – 0907 :
Answers & Winners**

Answers:

Performance, Protocol, Power, Processing., Portable
Bharti Airtel, Tata Docomo, Morro, Nandan Nilekani, india.gov.in
Vista, Windows registry, True, #FFFFFF, Ctrl +X / Shift + Del
300, Thriller, Triveni, Spice Jet, Q & A
Madonna, false, Worli, Rand, Udaipur

Winners:

Ms. Vaishnavee K.N
St. Joseph College of Engineering
Mem. No. : 90578790
Email: vaishkn@gmail.com



Mr. R. Saranyaraj
Park College of Engineering and Technology
Mem. No. : 90590196
Email: saranyaraj4321@gmail.com

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).

Faculty Development Program on “Time-Frequency Signal Analysis”

The IEEE Madras Section organized a Faculty Development Program (FDP) on “Time-Frequency Signal Analysis” in association with the Department of Electrical Engineering, IIT Madras, from 7th to 12th July 2009. This was the 12th FDP in a series of programs aimed at improving the quality of teaching in Engineering Colleges in Tamil Nadu. The program was attended by 25 participants from all over Tamil Nadu.

The instructors for the program were Prof. M.J. Bastiaans, Department of Electrical Engineering, Technische Universiteit Eindhoven, Eindhoven, The Netherlands and Prof. K.M.M. Prabhu, Department of Electrical Engineering, IIT Madras. Both faculty members are renowned academicians known for their research and teaching skills.

The topics covered included signal processing basics, such as Time sampling and aliasing, Band-pass signals and band-pass sampling, Quadrature signals, Computing the spectrum, Pitfalls in using the DFT, Frequency resolution and zero padding and Sliding spectrum analysis. The topics on Time-



Frequency signal analysis included Fourier transform, Need for time-frequency distributions, Fractionalization of cyclic transformations, Short-time Fourier transform, Wigner distribution function and its applications in optics, Gabor’s signal expansion, Gabor transform, Discrete Gabor transform, Wigner-Ville distribution, Zak transform,

Quadratic time-frequency distribution and Cohen class (pseudo Wigner, Rihaczek).

The program received excellent feedback from the participants, who in turn requested IEEE Madras Section to organize more such programs in the future.

Guest lecture on “Latest trends in Robotics” at SVCE



As a part of student branch activities during the Silver Jubilee year of Sri Venkateswara College of Engineering, Sriperumbudur, the IEEE student branch organized its first event for the academic year 2009-10, which was a guest lecture on 23rd July 2009. Mr. Ramakrishna Naidu, founder of Artec Srman Controls was the speaker who delivered a talk on “Latest trends in Robotics”.

During the session, Mr. Ramakrishna

Naidu gave a deep insight into various types of robots and automated systems ranging from small scale to sophisticated ones. Some of his own designs like the Artec Robotic Docking And Movement System which enables a helicopter to land safely on a Patrol Vessel of the Coast Guard were explained.

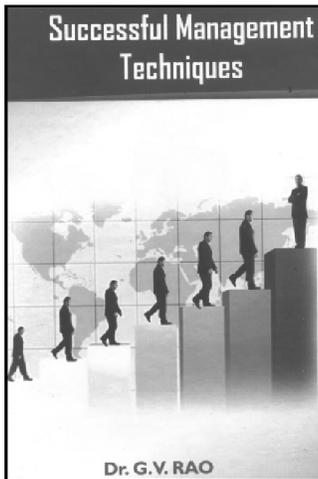
After the lecture, the following office bearers of IEEE-SVCE student branch for the academic year 2009-2010 were inducted.

Chairman	: Swaminathan.D (90440471)
Vice Chairman	: Sathya Narayana.V (90422869)
Secretary	: Tulasi Menon (90453154)
Joint Secretary	: Arvind Muralidharan (90445684)
Treasurer	: Srikanth.G (90444509)
Staff Counselor	: Ganesh Vaidyanathan S, AP/ECE

Additions to Section Library

- **CDROM Proceedings of the International Conference on Intelligent Agent & Multi Agent Systems (IAMA2009):** Held at Chennai during 22-24, Jul 2009. Organised by Aarupadai Veedu Institute of Technology, Vinayaka Mission University and supported by IEEE Madras Section, IEEE Computer Society & CSI Div II on Software.
- **Presentations (in CDROM) made during the National Workshop on Software Reliability & Testing** organized during 31st July and 1st August 2009 by the Dept. of IT, SSNCE in association with IEEE Computer Society, CSI DIV II on Software and Centre for Reliability, MCIT.

Book Review: Successful Management Techniques



Author: Dr. G.V. Rao
 Page: 236 Box Binding
 Price Rs. 225/-
 First Edition: 2009

Published by: Rowsons Publications
 260/1, Royapettah High Road
 Mylapore, Chennai – 600004
 Ph: 24980611 / 24980626

This book “Successful Management Techniques” is a compilation of the lifetime experiences of Dr. G.V. Rao for the past five decades in different capacities - as an employee - executive, heading an organization and an entrepreneur. There are number of books on the management techniques with case studies for those who learn management as an academic course. This book written by Dr. Rao is presented from a completely different perspective, teaching practical management techniques based on his own personal real life experiences meant for anybody a student, an employee, an organizational head or an entrepreneur.

Out of the 26 chapters of his book “Successful Management Techniques” - I would like to touch upon a few chapters which really impressed me as the head of an educational institution and as a teacher interacting with about 400 faculty and 3000 + students.

The second chapter “Practice Patience” is the most vital quality for every individual at every stage - student, parent, teacher, executive and so on. In this chapter the author has indicated several instances for being patient like relationships mother-in-law- daughter-in-law, teacher- student, employer – employee. He has also quoted “Porumai Kadalimum Perithu”, “Poruthar Boomi Alwar” to emphasize the

quality patience. This chapter is extremely useful for the present day youngsters especially in the age group of 18 to 25. We find youngsters to lack patience and if they and practice that lot of unpleasant things could be avoided.

The next chapter that I would like to talk about is “SPEAK NOT” and it starts with an equation $A = X+Y+Z$. The A is Success. ‘X’ is work, ‘Y’ is sportive and ‘Z’ is to keep mum, from Albert Einstein. I feel that in this equation Z should have a higher weightage when compared to Y. In this chapter the author very rightly says that no one should make long speeches like politicians. It is very true that nobody is interested in long speeches and advises. People want to be very brief and to the point. The author has quoted the examples of the speech by Abraham Lincoln which is very apt. Lincoln’s speech was less than five minutes but is considered to be one of the most powerful speeches in the history. The author has also narrated his own experience as the representative of a company with a dealer. He also emphasizes a fact that to be brief means to be firm and also be assertive. Those who practice patience usually speak less and these two qualities normally go together.

In the next chapter TALK Dr. Rao mentions about talking with knowledge so that the talk, the conversation is sensible. It is extremely apt to have planned the two chapters “SPEAK NOT” and “TALK” adjacent to each other.

In another chapter the author speaks about self-confidence. If we want others to accept us, we should learn to accept ourselves is the highlight statement of this chapter. Self-confidence improves courage, conviction and people with self-confidence always speak to the point.

The chapters on public relations and feedback are very well written. Effective public relations will give you lot of contacts and rich experience with name and fame. The author says that experience has taught him the importance of forging relationship with fellowmen and to foster such relationship he is part of many clubs and associations. This is also very much essential for the growth of every individual. Public relations give you contacts with peers which in turn improve the self confidence.

The inclusion of a chapter on feedback is very apt. Any system with feedback will have a better stability when compared to the system without feedback is the theory of engineering. This feedback mechanism is essential for any organization be it an education institution, a

manufacturing Industry or a service sector. The author has highlighted that the feedback in an organization is an essential aspect for the continuous progress I just would like to conclude with my appreciation for the topic negative thinkers – progress blockers. The author says that as an entrepreneur only one kind of people scare him –hard core negative thinkers. He also emphasizes that an important duty of every administrator is more towards weeding of negativity rather than increasing the positive attitude.

The author has effectively given all the tips to be an effective and efficient leader based on his own personal experiences. I would suggest that the author includes a chapter on professional and social ethics in the next edition of the book which will be very useful for the present generation.

It may be noted that the enterprising and friendly nature of Dr. Rao. Dr. Rao is 79 years young, not old – yes young, dynamic, humorous and very positive in his approach towards life. It is these qualities that have made him a successful entrepreneur and also prompted him to write number of books in different topics.

To conclude, this book will be a valuable reading material for professionals in administration and marketing to achieve growth in their career and a worthwhile addition in all institutional libraries.

It would be of interest to know that the author Dr. G.V.Rao is the chairman of IEEE Industrial Applications Society, Madras Chapter. A copy of this book has also been added in the IEEE Madras Section Library.

Review by: Dr. N.R. Alamelu, Principal, Aarupadai Veedu Institute of Technology

Section Membership as on 15th August 2009

Life Fellow	-	1
Fellow	-	1
Life Senior	-	5
Senior Member	-	69
Life Member	-	3
Member	-	1418
Associate	-	78
Affiliate	-	40
Graduate Student Member	-	759
Student Member	-	4181
Total	-	6,555

Technical talk on “Virtualization - Architecture, Infrastructure, Strategy”



A technical talk on “Virtualization - Architecture, Infrastructure, Strategy” by Mr. V. Balakrishnan, Partner & CIO, Polaris Software Lab Ltd was organized jointly by the Computer Society of India, Chennai Chapter and IEEE Computer Society Madras Chapter on Saturday, 18th July 2009.

Mr. H. R. Mohan, Chairman, IEEE Computer Society Madras while welcoming the gathering, said that Virtualization which started as consolidation exercise in corporate IT setups and data centers has gained lot of attention now and is deployed for practicing Green IT and reduce the operating expenses.

Mr. Ramesh Bhashyam, member of the management committee of CSI Chennai Chapter introduced the speaker.

Mr. Balakrishnan, in his talk, presented the business view of virtualization rather than dealing with the technical aspects. He started with differentiating consolidation and virtualization which provides unbeatable functionality benefits, solution to several ‘situations’ permits higher levels of consolidation, lowers space, cost, AC, power. He was of the opinion that virtualization is a general purpose remedy for several IT problems which solves critical IT situations in terms of Security; Compliance; Business Continuity; Application Deployment Architecture; Bandwidth problems and Application Access Location problems.

He highlighted that a mix of servers and networks and components such as a robust global network, virtual servers infrastructure, enabling network controls, network security and security policies are needed to enable virtualization. He talked about ROI and virtualization and tipped on going about

transforming a traditional setup to virtual such as consolidating the demand, adopting a new hardware asset cycle, deploying stable software versions and avoiding unwarranted upgrades, buying fully loaded virtual server, invest suitably in simple, reliable and cost effective networks, implementing VOIP for communications, deploying video conferencing solutions, planning automated services delivery – in effect, deploying IT-Business Convergence Model.

Mr. Balakrishnan also cautioned on issues in virtualization such as the cost of software licensing as the vendors do not recognize virtualization when computing the cost and an another major item of concern — single point of failure.

The presentation, attended by around 60 participants was highly interactive with experience sharing and clarifying a no. of assumptions being made while virtualizing their environment. After the talk, Dr. C.R. Muthukrishnan, Past President of CSI presented a memento to the speaker Mr. Balakrishnan. The meeting ended with the vote of thanks by Mr. S. Ramasamy, Chairman, CSI Chennai Chapter.

CIO Event on “Emerging Logistics in India, Changing Infrastructure and Technology”

IEEE Computer Society, Madras Chapter & the CIO Forum of CSI Chennai joined with

The Economic Times in organizing CIO event ELICIT 2009 event on “Emerging Logistics in India, Changing Infrastructure and Technology” on 16th Jul 2009.

The logistics sector in the country is highly fragmented and there is no apt data available on the market size. Hence quality and marketing are the prime focus of this sector. It is estimated that the present \$100 billion sector is projected to grow to \$180 billion by 2012. After IT and Telecom, Logistics is the most promising and vibrant sector in the country and the growth opportunities being immense.

ELICIT 2009, was the first interactive platform of its kind that seeks to elicit opinions, ideas, views, from eminent professionals, practitioners and strategists from the logistics industry on various issues to make supply chain and logistics an efficient system. The event was aimed to highlight the latest trends and

developments, discuss issues and challenges, and evolve ways to boost the growth of this sector.

The event ELICIT 2009 addressed the following issues:

- The astounding potential of India’s logistics sector
- How can we save the billions spent unnecessarily on the inefficiencies of the logistics sector in India?
- What kind of regulatory frameworks need to be in place for enhancing trade?
- How can we infuse superior technology to empower efficiency management?
- When will Free Trade Warehousing Zones (FTWZs) take shape in India and bring with it global logistics standards?

The event had two sessions. In the 1st session on “India’s Logistics Infrastructure & its Challenges” a panel consisting of Mr.

Ravichandran, President of , TVS Logistics Services, Mr. Sudhir Goel, Chief Officer – Supply Chain Management of Acer India, Mr. Devraj Kumar, Head – Material Management of Nokia India and Mr. Paul Bradley, Member, Global Advisory Board, Arshiya International deliberated on various aspects of the infrastructure issues and the importance of technology & development for the logistics sector. Capt. Subhash Kumar, Chairman, Chennai Port Trust was the chief guest at this session.

In the 2nd session on “FTWZ (Free Trade and Warehousing Zones) Perspective in the Indian Context”, corporate perspectives were shared by Mr. Nijay N Nair, head of Strategic Initiatives, Arshiya International and by Mr. B. Sriram, Associate Director, Tax & Regulatory Services, Ernst & Young. Mr. Michael Christensen, Global CEO of Arshiya International provided his view points at the end of the panel.

This event which was the first one in the logistics sector held at Chennai was attended by around 100 senior logistics & IT professional from corporate sector.

Technical meeting on “Power Sector Reforms today”



The IEEE Madras Section had organized a joint meeting along with IETE Chennai Centre, IET Chennai Network and IEEE Communications Society, Madras Chapter on “Power Sector Reforms

today” by Dr. B. Jayaraman, Member, Tamil Nadu Electricity Regulatory Commission on 27th June 2009. Dr. P. Suresh Chander Pal, Chair, Student Activity, IEEE Madras Section welcomed the gathering and said it was heartening to see the sister institutions joining together for deliberating on the Power Reforms needed today in the present context of economic recession and power shortages. We need smart solutions for the changing needs and the power and energy related industries and other utilities are more connected and the pace of engineering, operations and management is faster than ever before.

Dr. Jayaraman spoke extensively, sharing

his experiences and on the various Electricity Regulations, which were brought in, for the efficient governance, particularly in mitigating the grievances of the consumers. He spoke on tariff structure and also on the reforms, which are constantly engaging the attention of the Central and State Regulatory Commissions for delivering quality electricity at economical costs and for utilizing electricity, efficiently and beneficially.

There was active interaction with the participating students and members of all the institutions, besides the Chairpersons, Er. Sundaramoorthy (IETE), Dr. N .R. Alamelu (IEEE Communications), Er. Ellappan (IET) and others provided their considered views on this socially relevant subject.

Website launch at Sri Muthukumaran Institute of Technology



The website <http://smitieee.co.cc> of the IEEE student branch of Sri Muthukumaran Institute of Technology, Chikkarayapuram (Near Mangadu), Chennai was launched at a function held at the college on 30th July 2009.

The program was graced by the presence made by our principal, Mr. M. Sundar and HOD (EEE), Mr. A. Murugesan. Mr. N. Sridhar (founder of Yuvashakthi) was the chief guest to honour the program. A brief introduction about our IEEE

program and its initiatives were given by Mr. J. Dinesh Kumar (Chairman, IEEE student branch, SMIT).

The website designed by IEEE student members, based on the specifications were drafted by M. Karthik (Vice Chairman, IEEE student branch, SMIT) was formally launched by the chief guest. This website will have articles, reports on weekly activities & events. Also this website will have tips & Q& A for civil services and other competitive examinations.

After the website launch, Mr. N. Sridhar delivered a talk on “Love India”, and provided a positive note on the phenomenon behind India and her astonishing treasury by illustrations. Various ancient concepts and sculptures were exposed to our IEEE members. Students were very much influenced by his talk which had a positive impact on them.

Report by M. Karthik, Vice Chairman

Guest Lecture on “A Peek into Internet Attacks” at St. Joseph’s College of Engineering

The IEEE Student Branch of St. Joseph’s College of Engineering, Chennai commemorated their first IEEE event in their college by organizing a guest lecture by Dr. Hari Narayanan on “A Peek into Internet Attacks” on 7th August, 2009.

Dr. Hari Narayanan is a renowned person in the field of Computer Networks. He has published a no. of papers and authored many books in the same field. He introduced the students to the basics of networking, the protocols TCP and UDP and then took the students to the world of spoofing and sniffing. He threw light into the most common attack — Denial of Service (DoS) attack in the Internet world.

It was a very interactive session wherein the students came up with suggestions to overcome this deadly attack which has crashed many servers. Finally he ran through the tool Ethereal used for tracking the packets in a network and for manipulating them. He persuaded the students to think and come up with more effective solutions to bypass the DoS attack in future. After the lecture, there was a lively question-answer session. The students were very much benefited out of this meeting.

Distinguished Guest Speaker Programme

IEEE Computer Society and CSI Div II on Software is pleased to announce that Dr. Prabhaker Mateti, Associate Professor, Dept. of Computer Science & Engineering, Wright State University, Dayton, Ohio, USA is visiting India during Dec 2009 and will be available to run short courses and deliver guest lectures. Some of his earlier talks and courses include:

- Every Thing You Should Know About Linux
- Building an Internet Firewall Based on Linux
- Software without Security Holes
- Distributed Computing Principles and Systems

- Cluster Computing with Linux
- Hacking Techniques in Wireless Networks
- Explaining System Security to Computer Professionals
- A Laboratory Based Course on Internet Security
- Personal Security and Privacy on the Web

Proposals are invited from institutions interested in hosting him to conduct short courses and deliver guest lectures. The hosting institutions are expected to meet the cost of journey within India, accommodation and local hospitality

For details and additional information, pl. contact Mr. H.R. Mohan, Chairman, IEEE CS & CSI Div II at h.m.iececs@gmail.com

Visit our Website
www.ewh.ieee.org/r10/madras

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9 - 11, December 2009

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Hindustan University, Padur, Chennai, India

Supported by

IEEE Computer Society — Madras Chapter
IEEE Communications Society, Madras Chapter
Computer Society of India — Div II & Div IV

Call for Papers & Registration

Important Dates: Full Paper Submission: 31st Aug 2009; Paper Acceptance Notification: 26th Sep 2009; Camera-Ready Copy Submission: 2nd Nov 2009; Conference Dates: 09 -11.Dec 2009.

For details, email at cse@hindustanuniv.ac.in OR visit the website at www.hindustanuniv.ac.in/ICOGCAC09 or contact Dr. M.Roberts Masillamani, Conference Chair-ICOGCAC'09, Hindustan University, P.B No: 1, Rajiv Gandhi Salai, Padur, Chennai-603103 at deancs@hindustanuniv.ac.in

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In Association with

IEEE Computer Society — Madras Chapter
Computer Society of India — Div II (Software) &
Chennai Chapter

Call for Papers & Registration

Important Deadlines for Paper Submission: Extended abstract (500 words) due by: July 31, 2009; Invitation to submit full paper: August 15, 2009; Full paper (6000 words) due by: September 15, 2009; Camera-ready manuscripts to be submitted by: October 31, 2009.

Mail your abstracts to: mdgict@rmkec.ac.in Also Visit our website: www.rmkec.ac.in/mdgict or contact Dr. R. M. Suresh, Professor & Vice-Principal, R.M.D.Engineering College, Kavaraipettai-601206 at rmsuresh@hotmail.com

CONSEG 09
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December 17 - 19, 2009 at Chennai, India

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Computer Society of India, Div II (Software) and Chennai Chapter

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IEEE Computer Society, Madras Chapter
Software Process Improvement Network (SPIN), Chennai Chapter
Bangalore Software Process Improvement Network (BSPIN)

Call for Papers & Registration

Important Dates: Last date for paper submission : Aug 31, 2009; Confirmation of paper acceptance : Sep 30, 2009; Submission of camera ready copy : Oct 31, 2009

Correspondence: All Correspondence including paper submission should be by email and to be addressed to conseg09@csi-india.org OR conseg09@gmail.com or contact Mr. Ramesh Gopalswamy Chairman, PC Chairman, Author, Consultant & Adjunct Prof. at gopalswamy_ramesh@yahoo.com

Web: www.csi-chennai.org/conseg09

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Organized by

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In association with

IEEE Madras Section
IEEE Computer Society — Madras Chapter
IEEE Communications Society — Madras Chapter
Indian Nuclear Society
Cognizant technology Solutions, Chennai,
HCL Technologies Ltd., Chennai and
Infosys, Chennai

Call for Papers & Registration

Important Dates: Paper submission due on: September 05, 2009; Acceptance notification: October 05, 2009; Camera ready copy & Registration: November 30, 2009

Contact Details: Organizing Secretary, ICWCSC 2010, SSN College of Engineering, Old Mahabalipuram Road, Kalavakkam – 603 110, Chennai, Tamil Nadu, India. Phone: +91-44-27475063/64/65.

Web: www.ssn.edu.in/icwcsc2010, **Email:** icwcsc2010@ssn.edu.in



Celebrating 125 Years
of Engineering the Future

IEEE Madras Section

cordially invites you to the

IEEE's 125th Anniversary Celebrations - 2009

on Thursday, the 27th August 2009 at 9.30 a.m

at

Rajam Hall, MIT Campus, Anna University Chennai
Chromepet, Chennai- 600044.

Inaugural address by

Dr. P. Mannar Jawahar
Vice Chancellor, Anna University Chennai

Presidential address by

Dr. John Vig
IEEE President

Dr. T. Thyagarajan
Secretary, IEEE Madras Section

Dr. S. Salivahanan
Chairman, IEEE Madras Section

Program overleaf

IEEE's 125th Anniversary Celebrations - 2009 27th August 2009

Program Schedule

08.30 Hrs	Registration, Welcome Drinks	
09.30	Invocation	
09.35	Welcome Address	Dr. S. Salivahanan Chairman, IEEE Madras Section
09.45	Introduction of the Vice Chancellor	Dr. T. Thyagarajan Secretary, IEEE Madras Section
09.50	Inaugural Address	Dr. P. Mannar Jawahar Vice Chancellor, Anna University Chennai
10.00	Introduction of IEEE President	Dr. P. Suresh Chandar Pal Chair, SAC Madras Section
10.05	Presidential Address	Dr. John Vig IEEE President
10.15	Felicitation & Awards	
11.00	Vote of Thanks	Dr. Amitava Das Gupta Vice Chair, IEEE Madras Section
11.05	Refreshment	
11.30	Invited lecture : "Towards Technology Leadership in Wireless Communication"	Prof. Ashok Jhunjhunwala Department of Electrical Engg. IIT Madras
12.15	Invited lecture : "Technologies for Sustainable Development"	Dr. M. Anandakrishnan Chairman, IIT Kanpur & Science City, Chennai
13.00	Lunch	
14.00	Activities by Students	Dr. Mini S. Thomas Co-ordinator, R10 SAC
14.30	Interactive Session(Quiz for Students)	Dr. P. Suresh Chandar Pal Chair, SAC Madras Section
15.00	IEEE WIE & GOLD Affinity Groups Activities	Mrs. Ramalatha Marimuthu Co-ordinator, R10 WIE
15.30	Tea	Mr. S. Elangovan Vice Chair, GOLD Madras Section
16.15	Cultural Program	

Guidelines for submitting reports and articles to get published in the IEEE MAS LINK newsletter

- The matter may be in doc / rtf / txt format.
- Pl. use single column format.
- Photographs in digital form not to exceed 1024 pixels in width.
- Preferred format is "jpg". Pl. avoid sending the pictures in "bmp", "png" formats.
- DO NOT embed the photograph in the document relating to reports. Send them separately.
- Images referred in articles may be embedded at appropriate places in the article document.
- Provide your name, full affiliation, membership no. and email id at the end of the document.
- Send the matter by email with the subject "Matter for IEEE MAS LINK <MMYY>"
- Address the email to ieeemaslink@gmail.com with a copy to ieeemas@gmail.com
- Pl. note that the matters sent to other email ids may get ignored and may not be considered.
- Submit the materials by 8th of the month to facilitate inclusion in that month's issue of LINK.

We may ignore the submitted materials, if they do not follow the above guidelines.

Pl. co-operate with us by adhering to the guidelines specified.

Editor, IEEE MAS LINK

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Posted On : 22nd August 2009

Posted at: Egmore RMS (Patrika)

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