



Editor's Message

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Dear IEEE members,
As the new Editor, please let me start by conveying my gratitude to all of you and the R10 members, especially the former editor Zia Ahmed and the previous Directors Janina Mazierska, Yong Jin Park, and Lawrence Wong who have set up

milestones for the R10 Newsletter. For the last six years, IEEE R10 Newsletter has played a critical role in presenting news and stories from every corner over the Region 10.

In order to keep the readers widely interested and updated, we have, of course, continued the traditions of communicating significant events and activities of Region 10. Hence, I would like to take this opportunity to, again, invite the timely reports and submissions from IEEE Headquarters, EXCOM members, Section/Council Chairs, Student Branch Chairs and other established authors to join us.

Starting from this issue, we are going to add a special column on *ICT for Humanity*. We hope to raise awareness for bridging digital divide and transforming it into digital opportunities in leveraging connections of ICT humanitarian issues. We cordially welcome more reports on the related cross-country programs so as to share the precious experience and encourage further efforts in more countries.

The Newsletter has published advertisement pages to share the newest information on products, books, software, and services from world leading companies. We like to follow this good practice and further extend it to solicit the kind support from world leading universities, research institutes, and enterprises.

Starting from this year, two new sections will be added. First, *Brain Mobility* is the section where rigorous academic/research units are welcomed to present any excellent academic program and/or exciting research

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projects they are offering to young scientists for the graduate study or visiting research around the world.

Next, in the section titled Youth Employment, we are trying to build up a system in which we aim to pair rigorous young jobseekers with successful enterprises and optimizing the prospect for youth career development.

Let me close by again offering my sincere thanks for everyone's support during the past years. Special thanks for Fanny Su and Ewell Tan from IEEE R10 Headquarters, Singapore. Their immeasurable help has got IEEE R10 Newsletter off the ground. So here, the issue is now in your hand. I hope you will all enjoy it.

*Ruey-Beei Wu,
Editor of IEEE R10 Newsletter*

*Erica Chai
Assistant Editor, IEEE R10 Newsletter*

*Catherin Huang
Executive Secretary, IEEE R10 Newsletter*

IEEE R10 News & Highlights

The R10 EXCOM Meeting 2013

The IEEE Region 10 Executive Committee Meeting was held at Vientiane, Laos on 5th January 2013. Chaired by the R10 Director Toshio Fukuda, most of the EXCOM members of IEEE R10 have been present.

After a short welcome by Toshio, the 2011-2012 R10 Director Lawrence Wong gave a speech of appreciation, and thanked the members of EXCOM 2012 for their time to contribute their work. Also he identified new initiatives started last year including TENCON Spring, R10 Humanitarian Technology (HT) Conference, R10 Industry Day Symposium, consolidated award programs, concept of clusters, student member retention initiative, R10 mini POCO, project calls for WIE and HT, and streamlined nomination activity. He mentioned that these new initiatives need to be monitored and require fine tuning.

Director Fukuda gave appreciation to Lawrence Wong for his work and to Ramakrishna Kappagantu, Director Elect, for his participation. He introduced 2013 R10 Secretary, Hidenori Nakazato, Treasurer Takao Onoye, Vice Chair of Membership Activities Committee Darrel Chong, and Vice Chair of Technical Activities Committee Takatoshi Minami. He also manifested the goals for 2013-2014, which include:

- Bringing greater value to members: enhancing DLP and technical seminars, enhancing member benefits.
- Empowering Sections/Chapters
- More inter-Region collaborations

- More active involvement to IEEE Headquarter
- Explore new countries to start sections and chapters: Laos, Myanmar, Fiji and so on.

But this is not all. Director is going to listen to all the EXCOM members, in particular Strategic Planning Coordinator who directly report to Director, about what to be done.

Then, it comes to the breakout sessions for Technical Activities & Membership Activities Committees. The vice chairs of the two committees met to discuss their 2013 work plans. The Technical Activities Committee summarized 2012 activities as:

- South East Asia Conference Organizers Leadership Workshop (mini POCO)
- Three Distinguished Lecture Programs
- TENCON preparation
- 2 technical seminars
- 7 SIGHTS formation
- Organization of R10-HTC2013
- Funding for Humanitarian Technology projects
- 8 Humanitarian activities project funded
- 13 educational project funding
- EA committee fact-to-face meeting and EA Section Chair meeting
- R10 Educational Activity Facebook page creation
- Teacher In Service for Plan workshop held

The 2013 Membership Development Coordinator projects include:

- Improving communication to members on IEEE benefits (R10 Quarterly MD Webcast)
- Developing an MD award to reward excellent local members development activities to identify good membership activities
- Promote senior member grade application and increase the application by 5%

Other EXCOM members also presented their proposals. Director and the attendee enthusiastically participated in the discussion with constructive feedback. The Past Director also presented on behalf of the Advisory Committee to report results of nomination in 2012 and suggest their plan for 2013.

Then, the 2012 R10 Treasurer Michael Ong gave an overview of the 2012 financial status. The 2013 R10 Treasurer summarized proposed budget and commented further cut should be exercised. The Secretary Hidenori Nakazato discussed the current tentative agenda of the 2013 R10 Annual meeting.

Finally, the Director adjourned the meeting. He thanked all for their active inputs, and looked forward to a highly engaged year.

*Summarized from the Minutes by
Hidenori Nakazato, R10 Secretary.*

Call for Proposals: 2013 R10 WIE Support Fund

The details of the awarded to be granted and how to submit the proposal are in the following site.

<http://www.ieeer10.org/2013/03/09/cfp-2013-r10-wie-support-fund/>

Please study details carefully and consider your Group's submission.

- The proposal forms must be completed by proposer and endorsed by the Section Chair. And the budget plan and the requested budget (up to \$400) should be specified.
- R10 WIE provides part of the cost of the activity (up to \$400) in each case. Part of the cost of the activity must be borne by the respective section or any other sources.
- After confirming the result report and the financial report, R10 WIE will start the fund transfer process.
- Deadline of proposal submission is **May 5th, 2013** to email: takako@cuc.ac.jp and ieeeeapo@pacific.net.sg
- Please make sure that an acknowledgment is received after sending the proposal within 3 days, or it should be assumed that the submission is not received.

Looking forward to receiving the proposals.

*Takako Hashimoto
Coordinator, IEEE R10 Women in Engineering Chair,
IEEE Japan Council Women in Engineering
Associate Professor, Chiba University of Commerce*

**Please send your news items and articles
to the R10 Newsletter Editor by email:**

R10-ecm@ieee.org

The R10 Newsletter schedule for 2013

<u>Publication Date</u>	<u>Deadline for Submissions</u>
June 2013	18 May 2013
September 2013	17 August 2013
December 2013	16 November 2013

Special Interest Groups on Humanitarian Technology

IEEE has instituted a program called Special Interest Group on Humanitarian Technology (SIGHT) targeted and dedicated towards humanitarian technology activities.

Region 10 is also encouraging Humanitarian Technology activities in the sections for the benefit of underserved. Sections are showing lots of interest in addressing this humanitarian mission of IEEE and coming forward to forming 'Special Interest Group on Humanitarian Technology' (SIGHT). We have already formed eight SIGHTs in Region 10.

Each SIGHT on formation will be granted an amount of US\$250 as start-up amount for initiation of activities.

For details on Humanitarian Technology Activities and SIGHT, please visit:

<http://www.ieeer10.org/activities/humanitarian-technology.html>

You are requested to form SIGHT to promote Humanitarian Technology Activities in your section. Petition form and guidelines on formation of SIGHT is available on the website.

Petition form, completed in all respect, may be sent to Holly Brown (h.s.brown@ieee.org) and Deepak Mathur (deepakmathur@ieee.org).

Kindly give the concept of SIGHT a wide publicity in your section and encourage members to form this special interest group to promote humanitarian activities by application and use of technology to serve the underserved population.

*Deepak Mathur
2013-14 IEEE Region 10
Humanitarian Technology Activities Coordinator*



Call for Project Proposal for 2013 IEEE Region 10 Humanitarian Technology Activities

IEEE Region 10 is encouraging to form a Special Interest Group on Humanitarian Technology (SIGHT) in the sections and to take up Humanitarian Technology activities. Kindly refer <http://ieeesight.net> for details on SIGHT and its formations. All the members forming SIGHT are required to register online at <http://ieeesight.net>.

IEEE Region 10 is inviting project proposal(s) on Humanitarian Technology in 2013 from Sections of Region 10 to further promote HT activities. Projects those are Technology Solutions for the underserved will only be considered. Region 10 will provide support funding to carry out the project for underserved community in partnership with respective sections.

IEEE Region 10 had invited such proposals in 2012. 20 proposals were received from different sections of Region 10. Eight projects were selected for support and seven of them were successfully completed. For details please visit <http://www.ieeer10.org>.

Following are the salient features of R10 supported HT activities:

- Region 10 will provide 75% of the cost of the project or a maximum of US\$750 in each case. It is expected that 25% of the cost of the project be borne by the respective section.
- Region 10 will provide support to 8 selected projects.
- Such projects are expected to be completed in 2013 (Report to be submitted by 15 Dec 2013).
- The project should clearly outline the aspect of scalability and self-sustainability.
- The project should be proposed by the SIGHT of that section and duly endorsed by the Section Chair.
- The proposed budget should clearly mention the requirement of the funding from R10, support from the Section and from other sources (if any).
- The proposal for the project should be submitted in the following format:
 - Name of Project:
 - Name of Section:
 - Name of Section SIGHT Coordinator:
 - Name of the Project leader :
 - Name of the project team members:
 - Objective of the project (Maximum 200 words):
 - How the project will serve the underserved (Maximum 500 words):

- Project outline (stating what form of Technology being used):
- How the project will be sustainable (Maximum 500 words):
- Proposed date of completion of the project and submission of report: dd/mm/yyyy (the date should not be later than 15 December 2013)
- Total fund required:
 - Support from R10: (75% of project cost or US\$750 whichever is less)
 - Support from the Section: (25% of project cost or more)
 - Support from any other source (if any)
- Endorsement by Section Chair: The project has got approval and support of section as detailed above. (Signature of the Chair)

Please send project proposals to deepakmathur@ieee.org and ieeeeapo@pacific.net.sg

Last date of receiving project proposals is: 30th April 2013

Kindly give wide publicity to this 'Call for project proposal (s)' in your section.

Deepak Mathur
2013-14 IEEE Region 10
Humanitarian Technology Activities Coordinator

Announcement of Host Section for 2014 TENCON

The Call for proposals was issued on November 29, 2012 with deadline of January 20, 2013.

We received three proposals by the deadline and after the review in the R10 Excom; we selected Thailand Section as the host section. The 2014 TENCON will be held in Bangkok in November 2014.

We would like to ask all R10 Sections to consider participation in the 2014 TENCON.

Takatoshi Minami
2013-2014 IEEE R10 Conference & Technical Seminar
Coordinator

MOU signing at the Region 10

IEEE signed a Memorandum of Understanding with Chiang Mai University on 2nd March 2013.

The partnership is about providing continuing education through marketing and promoting IEEE English for Engineering, IEEE Technical Writing and IEEE Technical Presentation workshops to

- Engineering (full-time, part-time, local / exchange) students;
- Fresh graduates;
- Technical professionals across industry sectors.

In addition, IEEE and Chiang Mai University will set up a Centre of Excellence for Continuing Education within Chiang Mai University. To this extent, Chiang Mai University will be IEEE's delivery partner for Northern Thailand and the Mekong delta region.



The MoU was signed by IEEE Executive Director, Dr James Prendergast and President of Chiang Mai University, Associate Prof. Niwes Nantachit, M.D.

*LeoHwa Chiang
Continuing Education
Educational Activities
IEEE Asia Pacific Limited*

Meeting the Strategic Vision of Education in Indonesia

On the 25 Feb 2013, IEEE hosted a special event for academic institutions in Indonesia to attend IEEE's "Meeting the Strategic Vision of Education in Indonesia". The Guest of Honor, Minister of Education Prof. Dr. Muhmmad Nuh unfortunately had important matters to attend. The Ministry's Director of Institution and Partnership, Prof. Achmad Jazidie came on his behalf and delivered his message on the strategic vision and direction for Indonesia.

The event was well attended by Chancellors, Deans and Heads of Library of 19 leading universities and

institutions in Indonesia. Following up with on the Ministry's Vision for Indonesia, IEEE speakers described in detail how they could support the education efforts through IEEE's extensive publications and products which have benefited many countries in the Asia Pacific. Indonesian universities were encouraged to expand and enhance their engineering databases for the benefit of their students.



Participants of the meet held at the Conrad Bali hotel

Team Dongskar Pedongi from the Institut Teknologi Bandung, winner of the 2012 IEEE EXTREME Programming competition was also invited to attend the event to be recognized for outperforming 1,900+ teams that took part in this worldwide 24 hour programming competition. There was tremendous pride and a good round of applause when they went up on stage to receive their recognition from IEEE President, Peter Staecker and Prof. Achmad Jazidie.



Team DongskarPedongi with Prof. Achmad Jazidie (second from left) and 2013 IEEE President, Dr. Peter Staecker

*Fanny Su (Executive Director)
IEEE Asia Pacific Ltd*

Views expressed in articles published in this newsletter are those of author(s) and do not necessarily represent the views or official position of IEEE R10.

IEEE-Eta Kappa Nu comes to National University of Singapore

In October 1904, a group of 10 students led by Maurice Carr at University of Illinois Urbana Champaign laid the foundations of a society that has become the flag bearer for Scholarship, Character and Attitude – IEEE Eta Kappa Nu. Here on the 2nd day of February, 2013 more than 100 years later a group of 10 students took a similar leap of faith in bringing the ideals and mission of Eta Kappa Nu to Singapore – the first in South East Asia. Kevin Ardian Fauzie, Boon Le Wei, Sun Chen Chen, Dai Zhongxiang, Lim Junwei, Luo Shixin, Nguyen Phan Minh, Nguyen Quoc Phong, Tang Ting Ting and myself were inducted into the founding Chapter of IEEE-HKN at National University of Singapore (NUS), titled– *Lambda Omega*.

Preparing anxiously for the ceremony, all of us were a bit nervous yet enthusiastic about being inducted into something that seemed to be a part of the historical world like ‘Knights Templar’ or Hollywood movies like “The Dead Poet Society”. Preparing for the induction was no less than a roller coaster ride - getting the logistics together, contacting the guests, rehearsing for the formal induction ceremony. It allowed us to work closely with one another, establish new friendships – a prelude for exciting times to come for this new chapter.

Professor Paul Cheung, 2012 Director of the IEEE foundation had specially flown down from Hong Kong to help us install the chapter. Full of zest and enthusiasm, Prof. Cheung motivated and inspired us to take pride in our achievements and contribute actively to our field of study. He also presented our Chapter Charter and Signature Book to our Chapter President Kevin, who then led the induction ritual with zeal. One of the most exhilarating moments of the ceremony was when a couple of us got the opportunity to represent some of the greatest luminaries in the field of Electrical and Computer Engineering like Maxwell, Wheatstone, Faraday and Babbage.

As the founding members, we are excited to be a part of this society, which has luminaries like Steve Wozniack, Gordon Moore and John Bardeen, as its eminent members. We are looking forward to the numerous opportunities for professional development that it offers as well as for organizing activities in conjunction with IEEE Student Branch in NUS to contribute back to our community.

*Shubhendra Agrawal,
Treasurer, IEEE HKN Lambda Omega Chapter
National University of Singapore*



The Founding Members of IEEE-Eta Kappa Nu Lambda Omega Chapter at National University of Singapore with Prof. Lawrence Wong, Prof. Paul Cheung and Prof. PrahlaadVadakkepat.

IEEE and IEICE (Institute of Electronics, Information and Communication Engineers) are pleased to announce a reciprocal agreement under which members of either organization can join the other and receive a discount on membership. They receive 50% off their membership dues for two years. This discount is only available to new members for either organization.

Join IEICE at <http://www.ieice.org/eng/member/OM-appli.html>.

To receive the 50% discount on IEICE membership, download the IEICE overseas membership application form and the credit card form, fill them out and send to the IEICE Head Office via e-mail: member@ieice.org or Fax: +81-3-3433-6659, with a copy of your IEEE membership card.

Regarding IEICE member's benefits, please refer to: <http://www.ieice.org/eng/member/benefits.html>

This discount is only available to new members for IEICE.

*Iwao Hyakutake,
Director of IEEE Japan Office*

IEEE Member Digital Library Subscription Price Update

Please note: The subscription price for the IEEE Member Digital Library will increase to \$39 per month beginning in April 2013. For a subscriber that uses 25 documents per month, that is an average price of only \$1.56 per document - still an outstanding value compared to purchasing articles individually. In fact, this increase marks the first time that the subscription price has been raised since the product was launched in 2002. We do our very best to offer our members fair and consistent pricing while also enabling IEEE to continue to meet the rising costs of maintaining a high quality digital library and publishing the world's leading and most cited information in technology.

Thank you for being an IEEE member and MDL subscriber, along with your continued support. If you require additional assistance with your IEEE MDL Subscription, you can reach the IEEE Support Center at: <https://supportcenter.ieee.org/>.

IEEE Karachi Section: Series of Technical Seminars

In 2013, IEEE Karachi Section has taken an initiative of conducting monthly technical seminars by reputed industrial and academic experts for the benefits of its members. The first seminar of this series was held at National University of Computer and Emerging Sciences (NUCES) City Campus in Karachi on 1 March 2013, titled Electrical Safety Requirements for Workplaces to Avoid Fire Hazards.



Eng Saleem going through the human body parts where protection is a must.

The presenter Engineer Tahir Saleem, a seasoned engineer working in the power engineering field for a good many years and CEO of United Engineering Services, started off with the unfortunate incident of a factory fire which happened in a thickly industrialised area of Karachi in September 2012. This incident, purportedly caused by an electric short-circuit, resulted in the death of 289 workers by severe-degree burns, smoke inhalation and the subsequent stamped. Eng. Saleem outlined the necessity of awareness to the workforce about the hazards and controls of safety, both directly and indirectly involved in an industry. The standards for electric safety have been clearly laid out by international and local institutions but very rarely followed in private sector organisations and quite little in public sector. The Occupational Health and Safety Advisory Services (OHSAS) Regulations Applied for Electrical Safety give a guideline in this regard, and Pakistan Standards and Quality Control Authority (PSQCA), the local regulatory authority, have stringent rules for electrical safety in all workplace environments, and especially on manufacturing/production floors, which are directly in contact with safety risks.

Pakistan has the world's tenth largest labour population according to the CIA World Factbook, and this number places a huge responsibility on the HSE

stakeholders to ensure promulgation and adherence from those at the highest rung of an organisation to those at the bottom. Personal safety and protection is another aspect which was highlighted in the seminar, which includes equipment like gloves, hard hat and boots, to training and regular drills which trigger automatic responses in case of actual emergencies. In addition, it is essential to regularly check electrical safety devices, including fuses of appropriate ratings, circuit breakers of the correct make and size, relays and magnetic contactors. Earthing (grounding) as a practical concept, especially for power plants and transmission and distribution houses, was delineated as an ingrained habit in all workers, for which the NEC has outlined codes to be followed. Focus was also laid on separate neutral and ground conducting, as well as on flash protection boundaries. He briefed the audience about temperature effects on PVC cables, the importance of residual circuit devices, and following the proper code for changing lighting and fixtures.



The audience noting the more important of the points during the seminar

Eng. Saleem said all workplaces have a responsibility towards their employees and contractors that they are frequently trained on safe practices and remain ever-ready for any incidents. He also deliberated on the necessary precautions needed by trained personnel when dealing with hazardous materials including asbestos and polychlorinated biphenyl, and on making inspection and testing a regular feature of activities. He stressed on the use of safe voltages, and reminded the audience that leakage current limiting value is 3.5ma.

Eng. Saleem concluded his seminar by expressing his sincerest hope that more workplaces should become vigilant and exercise their focus on electric and general safety, because more often than not, the focus is on production and manufacturing, and indifference towards safety causes much more harm in the end.

*Hassaan Idrees
Student Activities Committee (SAC) Chair,
IEEE Karachi Section*

IEEE Madras Section: Presentation on “The Future of the Internet”

On 24th Jan 2013, at a joint public lecture programme organized by the IEEE Computer Society Madras Chapter along with the ACM Chennai Chapter, Computer Society of India Chennai Chapter and IIT Madras Alumni Association at IIT Madras, Dr. Vinton G Cerf addressed a gathering of over 400 IT professionals and academic and student community on the Future of Internet.



Mr. H.R. Mohan, Chairman of IEEE CS, in his welcome address stated that the TCP/IP protocol co-developed by Dr. Vint Cerf paved the way for the modern Internet on 1st Jan 1983 and it had revolutionized our day-to-day life. He added that it is a great opportunity for us to learn about the future of the Internet from one of the fathers of Internet Vint Cerf.

Dr. Janakiram, Chairman, ACM Chennai Chapter, in his formal introduction stated that Dr. Vint Cerf, the current president of Association for Computing Machinery is a great visionary and has been working on Internet right from its early days when it was a project of DARPA. Dr. Cerf, apart from being a Turing Award (considered as Nobel Prize in Computing) winner has received the U.S. National Medal of Technology and Presidential Medal of Freedom, the country's highest civilian award. Dr. Cerf has received several awards and has served and serving in the boards of many organizations associated with the Internet. Dr. Cerf, a doctorate in Computer Science from UCLA, has been awarded honorary doctorate by over 30 universities all over the world and is also a fellow of major computer and technical societies and associations such as ACM, IEEE, BCS, American Association for the Advancement of Science, International Engineering Consortium, Swedish Royal Academy of Engineering and many more. He also serves as the Vice President and Chief Internet Evangelist at Google, USA.

Dr. Vint Cerf, started his talk, outlining the global & regional statistics on Internet and then highlighted the status in India and briefed on the steps to be taken to increase the access in India. While speaking on the recent changes in the Internet scenario, he briefed on IPv6 to co-exist with the current IPV4, International

Domain Naming, new gTLDs, Domain Name System Security, Digitally Signed Address Registration, Sensor Networks, Smart Grid, Mobile Devices and Internet enabled devices.

He added that the following are some of the technology challenges the Internet is facing: Scaling issues to avoid centralization and information latency, Border gateway protocol for Openflow networks, issues beyond addressing, Configuration management and access control in the Internet of Things, issues in certificates and Certification, Role of trusted computing modules in hardware and software design, paranoid browsers and sandboxes, Inter clod protocols and architecture, and Delay and disruption tolerant networking and public safety Nets. He said that Smart Grid is the way to look into the future by highlighting Smart Grid Interoperability Panel, Smart Energy Profile, Configuration, Control & Reporting, Safety and Security, Production vs. Consumption, Analytics and Loosely Coupled Power Grids.

In the area of Internet Policy Challenges, Dr. Cerf spoke about the Internet Governance, Role of ITU, Privacy, Safety and Security, Digital Signatures, Intellectual Property and Digital Vellum focusing on preservation of data and software.

He concluded his talk outlining on The Inter Planetary Networking Special Interest Group (IPNSIG) which seeks to promote effective data communications over

interplanetary distances. He said that communicating over those vast distances and in the challenging (for data communications) environment of space requires a really different approach to networking than that ubiquitous networking environment we are most used to. His one-hour-twenty-minutes, uninterrupted, streaming-like-talk was enjoyed by everyone. He spared his time to answer a number of queries from the audience.

At the time of vote of thanks, standing ovation was given to Dr. Cerf. Mementos were presented to him by Mr. A. Chandrasekaran, Chairman of CSI Chennai and Mr. K. Bhaskaran, President of IITMAA.

Mohan. H.R
Editor IEEE MAS LINK & Chairman,
IEEE CSIEEE Madras Section

IEEE Queensland Section: Distinguished Lecture –PES Chapter

IEEE Power and Energy Society (PES) chapter in Queensland invited Professor Ryuichi Yokoyama from Waseda University in Tokyo, Japan for distinguished lectures in Brisbane and Sydney. Two lectures in Sidney and Brisbane as well as one workshop at the University of Queensland in Brisbane were organized.

The distinguished lecture was held at Energex



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WITH THE LATEST RELEASE OF MUKHTAR AHMAD'S BOOK ARTECH HOUSE IS PLEASED TO ANNOUNCED THAT OUR ELECTRICAL/ELECTRONICS ENGINEERING LIST IS EXPANDING SUBSTANTIALLY THIS YEAR WITH EXCITING TITLES FROM THE WORLD'S TOP EXPERTS.



POWER SYSTEM STATE ESTIMATION

Mukhtar Ahmad, Aligarh Muslim University, India
2013, Pages: 208, ISBN: 978-1-160807-511-9

This valuable resource provides thorough coverage of state estimation, helping you overcome power system control and operational challenges involving quality, reliability, security, stability, and economy.

- Introduces critical new state estimation techniques, including current measurements and phasor measurement units.
- Provides expert guidance for current projects and discusses cutting-edge developments for work with future energy management systems.

For a full description/contents/Author's info/download a chapter, click below:

<http://www.artechhouse.com/International/Books/Power-System-State-Estimation-2007.aspx>

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(distribution service provider in south east Queensland) conference venue in Brisbane on Thursday 4 November 2012 and was well attended by 44+ engineers, researchers and power system consultants.

In this lecture Professor Yokoyama briefly gave an overview of the power system in Japan and explained the impacts of Tohoku Earthquake and Fukushima Nuclear power plant disaster in March 2011 on the power system. Then, the current status and features of the government driven developments for smart grids and communities in Japan were introduced, and the new concept of cluster-oriented expandable networks focusing on resiliency of the grid against natural disaster were discussed.



Professor Yokoyama, IEEE DL, presenting the resilient networks concept at Energex

The presentation was followed by technical discussions with audience. The discussions included current challenges of the distribution networks in Australia and Japan and provided a fantastic opportunity for power system engineers and experts to share their experiences and ideas.

The seminar was followed by a technical workshop on the impacts of large-scale PV solar generation on distribution networks at the University of Queensland on Friday 5 November. The aim of the workshop was to discuss the issues of large-scale integration of intermittent renewable sources into distribution networks and explore the solutions and present research findings in this area.

In this workshop, Professor Tapan Saha and Dr. Ruifang (Richard) Yan from the School of Information and Electrical Engineering at the University of Queensland presented the outcome of their continuing research on integration of solar energy into distribution networks. They also shared their experience with the 1.2MW roof-top PV installation at the University of Queensland which is the largest roof-top PV installation in its kind in Australia. Then, Professor Yokoyama explained the concept of resilient power distribution networks and how energy storage can be utilized to mitigate the intermittency of solar

generation. This workshop was well attended by 45+ power system researchers and engineers and provided an excellent opportunity for academics to interact with engineers from power industry as well as promoting the IEEE within the local power industry.



Dr. Dave Allan Receives Outstanding PES Engineer 2011

The workshop was concluded by introducing the recipient of the 2011 Outstanding PES Engineer Award, Dr. Dave Allan, Manager Research and Development in Powerlink Queensland..

*Dr. Mehdi Eghbal
Adj. Research Fellow, School of ITEE
The University of Queensland, Brisbane, Australia
PES Chapter Chair 2012-13
IEEE Queensland PES Chapter*

IEEE Taipei Section: Invited Talk by Prof. Eric Wong

The speech was held at the National Chiao Tung University on Dec. 21, 2012. There were 84 Participants in total and most of them were IEEE Reliability Society Taipei/Tainan Chapter's members. The forum invited Professor Eric Wong to give speeches with "Program Debugging with Effective Software Fault Localization" and "Challenges in Automatic Test Generation"



Opening Introduction of speaker (Prof. Eric Wong)

Program debugging is an important activity in the development of reliable and trustworthy software. This activity can be very expensive and time consuming due to the difficulty of identifying the exact locations of program faults. In this talk, Dr. Wong explained how to take advantage of sophisticated analysis of the static and dynamic behavior of the software under examination to prioritize suspicious code in terms of its likelihood of containing program bugs. Codes with higher risks can then be examined before that with lower risks, as the former is more suspicious (more likely to contain program bugs) than the latter.



Talk1: Program Debugging with Effective Software Fault Localization)

Different techniques for fault localization based on execution slicing, code coverage, heuristics, neural networks, statistical analysis and fuzzy clustering were discussed. Empirical data from case studies on programs with single and multiple bugs was used to show that the new techniques outperform others having the same goal.



Talk 2: Challenges in Automatic Test Generation

One of the most significant challenges in assuring the safe and secure operation of a software system is how to generate a small suite of test inputs designed to reveal program bugs, safety violations, or security vulnerabilities both efficiently and effectively. In this talk, the speaker discussed the use of sophisticated static and dynamic analyses to automate the test

generation process for structural-based coverage testing (such as all nodes and all edges) and CEFSM-based communication testing (such as send-receiver pair, round-trip and n-step message transfer). An innovative approach for testing software safety was presented. The same approach can be extended to test software security.

*Sy-Yen Kuo
Chair, IEEE R10 Taipei Section 2013*

IEEE Xi'an Section

IEEE Xi'an Section 2012 annual summary and the New Year annual meeting was successfully held.



IEEE Xi'an Section 2012 annual summary and the New Year annual meeting were held in Tang Dynasty West Market Hotel on December 23. Professor Jiandong Li, the vice president of Xidian University and the Executive Committee member of IEEE Xi'an section, presided over this meeting, and Professor Junbiao Wang, the head of Technology Department of Northwestern Polytechnical University, had a speech on the meeting. More than 80 members, including the Executive Committee members of IEEE Xi'an section, the Technical Committee members, IEEE members and students, participated in this meeting.



Professor Jianguo Huang, the chair of IEEE Xi'an section and also the chair of IEEE Xi'an section Signal

Processing Chapter, gave a report about the summary of the works in 2012 and working plan of 2013. The report began with a review of the IEEE Xi'an Section international conferences held in 2012, inviting experts to Xi'an for academic communication and lectures and IEEE membership development situation. Since then further expectation was proposed for IEEE Xi'an section development, and called for more scientific and technical elites to join the IEEE Xi'an section to contribute in the fields of electrical and electronic scientific research and teaching in Xi'an area.

Then, the chairs or representatives of Electron Devices Chapter, Signal Processing Chapter, Computational Intelligence Chapter, Communications Chapter, Computer Chapter, Microwaves Theory and Techniques Chapter and Control Systems Chapter had reports about their own works in 2012 and work programs of 2013.

Finally, three student branches of IEEE Xi'an section—Xi'an Jiaotong University student chapter, Northwestern Polytechnical University student chapter, Xidian University student chapter, also introduced annual events in 2012 and activity plan of 2013.

After the meeting, the Executive Committee members of IEEE Xi'an branch had an executive board meeting, which including guests, the IEEE Xi'an Branch Development and expansion of in-depth discussion

and negotiation. In addition, TENCON2013, which is sponsored by IEEE R10 and IEEE Xi'an section, will be held in Xi'an in 2013 October are discussed.

Chengbing He, and Yan He
Associate Professor,
Northwestern Polytechnical University
IEEE Xi'an Section

WIE AFFINITY GROUP

IEEE Kerala Section: WIE FORUM-DARSHAN 2013

DARSHAN 2013 was a remarkable event in the history of Kerala section which was organized by the WIE Affinity Group of TKM College of Engineering, Kollam, on 6th January 2013 at TKMCE campus. The one day event witnessed a participation of around 80 active student members from various colleges in the section. The event mainly aimed to provide opportunities for WIE members to network and increase their know-how about WIE and IEEE and also to enhance their own technical, analytical and organizing skills.

Mrs. Mini Ulanat, the Student Activity Chair (SAC) of Kerala Section graced the occasion. The day started with a one minute silent prayer followed by the Code of Ethics. The welcome address was given by Mrs.

Reaches out and touches the world

Being a key to Taiwan's success and at the heart of its ICT revolution to help promote the development of the ICT industry and deploy the information society, the III (Institute for Information Industry) has been sharing its ICT experiences with APEC countries and assisting them to establish DOCs(*) ever since 2003. III has established ADOC International Partner Offices, 101 Centers among PMEs (*) across 3 Continents, and trained more than 420,000 people in pursuing a better life. Hence, III won the WITSA(*) 2010 Global ICT Excellence Awards in recognition of its distinguished achievement in the promotion of an e-Society.

財團法人資訊工業策進會
INSTITUTE FOR INFORMATION INDUSTRY

DOCs(*) : Digital Opportunity Center PMEs(*) : Partner Member Economies WITSA(*) : World Information Technology and Services Alliance
Original: III Photo Contest 2012 Merit winner. This photo is not provided by ADOC.

Sunitha Beevi, the Vice Student Activity Chair (VSAC) of Kerala Section and the Counselor of IEEE SB TKMCE. She pointed out the fact that IEEE is a basic platform for implementing our innovative ideas. She also stressed the importance of overcoming the crisis of having a poor pass percentage in engineering colleges of Kerala. Prof. S. Parameswaran, Principal of TKMCE gave the presidential address in which he highlighted the significance of having qualified engineers for the society.

The Chief guest of the day, Mrs. Mini Ulanat gave the keynote address. In her opinion the WIE, as an elite group of the higher educated people have a lot of responsibility to the society. She stressed on the importance of being passionate about what you are doing, to prioritise and also to enjoy. Her motivating lecture was really mind-touching and surely it will encourage the young members to get involved with diverse activities of WIE and IEEE for technical and social benefits and advancements. Dr. M. Jayaraju, Director of ANERT felicitated the event. The inaugural session was concluded by the vote of thanks by Ms. Jina, the chairperson of WIE Affinity Group, TKMCE.

Following the inaugural session, there was a talk by Dr. M Jayaraju, the Director of ANERT (Agency for Non-conventional Energy and Rural Technology) on “Present power scenario”. He brought into our notice that civilization is not just about the usage of energy but also need the intelligence to use it efficiently. The various innovative solutions to the energy crisis were mentioned out which the top one was energy conservation. He pointed out that energy saved is energy produced. He explained the various ways in which we could save energy in our household. The talk was concluded by quoting Gandhiji’s famous words: “Energy conservation is essential for sustainable development”.



In the Afternoon, an ice braking session was arranged by the active volunteers of the student branch of TKMCE. The entire participants were divided into 5 groups and a competition named ADSAP- Advertising. A Product was conducted.

Each group were given two items which have no connection whatsoever (like shoe and jam) and was asked to relate them as a combination and advertise their new product. The groups were allotted total of 10mins, 5mins for discussion, and 3 mins for presentation and 2mins for questionnaire. The winners were selected based on their group work, coordination, ideas, and active involvement of all members. Through this session the students got a chance to showcase their talents and it was indeed entertaining for all.

After the entertaining gaming session there was a panel discussion on “Meeting the industry demand by academia”.

The panellists were Mrs. Mini Ulanat - SAC, IEEE Kerala Section, Prof. Shanthi K J – Chairperson, WIE Affinity Group, Kerala Section, Mrs. Sarada Jayakrishnan - Senior Manager, Terumo Penpol Ltd, Tvm, Prof. Wahida Salam – Asst. Professor, MCA Dept, TKMCE and Ms. Akhila K – Student Representative. They brought into our notice if the students are not directed in the proper way, they will never be futile for the industry and their life would turn out to be meaningless. They highlighted the importance of communication skills which are also lacking in most of the students nowadays.

The panel discussion was full of interactions and it is hoped that it will be an eye opener for the participants. The event provided opportunities for the participants as well as the volunteers to network and to familiarise with WIE and IEEE activities. The freshers got highly motivated and were able to get a better idea about the value and benefits of being an IEEE member. The presentation, soft skills and spirit of IEEE volunteerism and organizational concepts were easily improved. The event was overall a great success and had an excellent response from all the participants.

*Documented by Dhanuja Lekshmi J
Secretary, WIE SB /
IEEE SB TKMCE,
Kerala Section*

Views expressed in articles published in this newsletter are those of author(s) and do not necessarily represent the views or official position of IEEE R10

Seminar on “Women in Science”

A seminar on “WOMEN IN SCIENCE” is organized by Student Branch and WIE Affinity of Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad (GRIET) in collaboration with IEEE WIE Affinity Group, Hyderabad Section on 10th October, 2012. The aim of this program is to promote engineers and scientists by increasing awareness, enhancing capacity building, dissemination & sharing of knowledge, and providing mentoring.

Speakers were Dr. Kaleem Fatima, Professor and Head, ECE Department, MJCET and Dr. Swarna Bai Arniker, Scientist 'E', Imarat Research Centre, DRDO along with Dr. J. N. Murthy, Principal of GRIET and Dr. Y. Vijayalata, Chair IEEE WIE-AG and IEEE GRIET SB Counselor.



Talk : by Dr. Kaleem Fatima

Women, “Leaders of Evolvment and Elegance” has been proving themselves in every possible field and excelling beyond expectations. From astrophysics to zoology, women have been standing out and making a career in science! Though there are large number of women engineers and scientists employed in educational institutions/govt. bodies and public & private sector organizations, there is still lot of untapped talent available in the country.

The Student Branch and WIE Affinity of GRIET in collaboration with IEEE WIE Affinity Group, Hyderabad Section resolved to conduct an enlightening seminar “Women in Science” about the women’s progress and opportunities available in this era. This program is supported by R10 WIE funds.



Talk : by Dr. Swarna Bai Arniker, Scientist 'E', RCI

Dr. Kaleem Fatima spoke on “Essence of Self Learning in Engineering Education” where she firstly reminded us of some highly influential Scientists from a variety of scientific fields. She mostly dealt with the various levels of attainment of the desired knowledge and understanding required for the ever growing and highly demanding professional world. It also looked into various other issues such as different ways of learning and different types of personalities.

She also focused on Art of Self Learning and current features of engineering graduates. Her speech was quite striking as she stated the weakness of today’s students and their must set goals and more participation in various activities to excel in not only academics but also personally and professionally. The students were also guided by the fact delivered by the speaker that they should make our own Papers and also we should make papers upon the topics that are really implemented.

This guest lecture was followed by a refreshing tea break and was moved to the next talk by Dr. Swarna Bai Arniker, who addressed on “Career in Science”. In this talk the attendee came to know about great women in world who have achieved something as equivalent to men and also beyond it. As people are familiar to persons as Father of Nation, Father of computers, we were enlightened about Great women as Ada Byron (Mother of Compiler). She inspired about how a woman can reach to peaks.

The guest talk also gave out tips on not only getting a good job but also keeping. On the whole, it outlined the need for attaining excellence in today’s competitive world. The session altogether covered the basic things about knowledge at the level of just knowing things and the huge difference that arises when it comes to applying the knowledge.

This talk was followed by the honoring of guests with monuments and also the accounting of every college’s respective achievements. This was an interactive

session that sparked the mood for the ideas session that was held later. The ideas session engaged the participants to talk about an initiative to help the remote villages and providing them education and at least a facility that can make the children in that village study along with their parents in village. There was an excellent response from the participants who shared their innovative and easy to implement ideas during this open talk.

Then the vote of thanks was given by GRIET WIE Affinity Group Chair Sujana and also the branch counsellor Dr. Y. Vijayalata. The session ended on a good note that saw participation of 45 students from various institutions and also faculty of GRIET. After this session, the participants were diverted to the Technical festival that was going on the same day.

*Dr. Y. Vijayalata
Professor, Department of Computer Science Engineering
Gokaraju Rangaraju Institute of Engineering & Technology
Chair, IEEE WIE Affinity Group
Hyderabad Section*

Two day series on “Advances in Software Quality Engineering” with hands-on lab

IEEE WIE Affinity Group, Hyderabad Section in association with Padmasri Dr. B. V. Raju Institute of Technology have organized Two day series of talks on “Advances in Software Quality Engineering” with hands on lab on 24th and 25th November 2012 at BVRIT Campus. Hyderabad, being one of the biggest IT hubs in south India, is host to a number of working women professionals in various roles such as Product development, Quality Assurance, etc.



The aim of the program is to help the women professionals to stay tuned with the current technologies related to software testing. The aim is also to enhance the visibility of IEEE WIE Affinity Group and its benefits with the local community. The program is partially funded by R10 WIE.

The seminar was organized to bring the women working professionals, academic staffs to a common platform to assist to enhance the Technical skills of women working professionals to stay updated with the latest technologies and to establish a platform for women Professional to form a Network and to increase the visibility of IEEE WIE and consequently increase the membership amongst professional not aware of IEEE. The event saw over 90 participants from the Software Quality background.

Mr. Kodela Charan Singh from NCR Corporation was the first speaker who has 10 years experience in Manual testing and Test Automation. He gave a talk “Introduction to Test Engineering”. Followed by the talk was a hand-on session on QTP, an automation test tool by Mrs. Rashmi Ambale, Professional services Consultant for Europe region, NCR Corporation and Treasurer & Secretary IEEE WIE AG, Hyderabad Section and Mr. Satish Kumar is a Software Professional working for Infosys Ltd.

The final talk of the evening was by Dr. Y. Vijayalata, IEEE WIE AG Chair, Hyderabad section, gave a talk on events conducted by WIE and upcoming events of WIE. She also focused on the different resources available for a woman scholar to carry the research.



The event proved to be a networking platform for the participants from various Software firms, students and Academician's.

*Dr. Y. Vijayalata
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Gokaraju Rangaraju Institute of Engineering & Technology
Chair, IEEE WIE Affinity Group
Hyderabad Section*

Student Professional Awareness Conference-‘Make an Impact with IEEE’

Jeppiaar Engineering College organized a Section Level - Student Professional Awareness Conference themed ‘Make an Impact with IEEE’ on February 8th, 2013. The conference deliberations aimed at creating an insight on volunteer activities, and opportunities for students in personal growth and technical development especially with IEEE.

It was a one day Conference with four eminent speakers Mr. Prasanna Venkatesan, Cofounder, amgonna.com, Voting Member & MGA Representative - IEEE Educational Activities Board, IEEE R10 GINI Coordinator (2010 – 2012), Mr. Arjun R Pillai, Cofounder & Chief Executive Officer, Profoundis Labs Pvt. Ltd., Network Coordinator- Asia Pacific Student Activities Committee, Member - Asia Pacific Humanitarian Technology Committee, Mr. Barnabas Muthu, Mentor- IEEE Madras Section Student Network, Executive Committee Member- IEEE GOLD AG

Madras Section, Mr. Anand Balu, Vice Chairman - Student Branch Networking- IEEE Region 10 SAC India, Student Network Coordinator- IEEE Madras Section, Chairman, IEEE Madras Section SIGHT.

Firstly, Mr. Prasanna drew his experience to give a bird’s eye view of immense opportunities around and how young volunteers can choose specific volunteering path to generate maximum impact. Secondly, Mr. Arjun emphasized the importance of networking with the Engineering community, which not only provides us an open platform for the establishment and progression of individual ideas, enhancing the ‘out-of box thinking’ capability but also provides a wide ranged recognition among our peer mates, making us an even better and efficient engineer, capable to produce and innovate new technologies.

Followed by, Mr. Barnabas elucidated on Career based skills, Information and Leadership which can be enhanced only through associating with a professional organization like IEEE. He explained the present scenario of the multinational companies and also the key role of a corporate leader in development of the economic progression of a country, worldwide, in improving their standards and providing a global

recognition. He concluded with an interesting quiz session.

The last session was by Mr. Anand mainly focusing on the developments of technology and its impact on the national and global economy, which would provide every individual, a huge jumpstart to their dream career which should be utilized properly to climb up the ladder.

There were around 400 participants and the Conference was wholly, a huge boost up and created a wide-ranged awareness among the students of the engineering front.

Anusha, Ramakrishnan
Student member, Jeppiaar Engineering College SB
IEEE Madras Section

ICT for Humanity

Digital Opportunity for Visually Impaired in the Philippines

The APEC Digital Opportunity Center (ADOC) Project is an Economic and Technical Cooperation (ECOTECH) initiative first proposed in 2003 by Chinese Taipei at the 11th APEC Economic Leaders’ Meeting in Bangkok, Thailand.

The mission of ADOC is to narrow the digital divide within APEC member economies and enable the development of digital economies to cope with the challenges of globalization. In particular, it aims to help disadvantaged groups or areas overcome obstacles resulting from age, gender, or education disparities and enjoy the benefits of digitalization.

In the eight years since ADOC was established (August 2004–2012), 101 ADOC centers were established in 10 PMEs, namely Chile, Indonesia, Papua New Guinea, Peru, the Philippines, Thailand, Vietnam, Mexico, Malaysia, and Russia, and around 420,000 people, including women, children, micro and small entrepreneurs, and other local community members received training.

One of the efforts to help disadvantaged groups by ADOC Project was the establishment of the first computer training center for visually impaired people in the Philippines in 2009. Against the stereotypical image that visually impaired people could not operate computers successfully, ADOC worked to break that cliché, and had directly and indirectly trained over 300 visually impaired young adults and introduced more

than a hundred blind school children to information technology. In addition, the center provides various training programs that have benefited over a hundred Special Education teachers, rehabilitation workers, university instructors, and parents of blind children. ADOC Project gives visually impaired individuals a sense of hope and the confidence to strive for a brighter future.



Call Center Service Training



Computer Assembly Training

The story of a young man from the Philippines perfectly illustrates how ADOC helps disadvantaged people to improve their lives. This young man, age 16, is a Low Vision Freshman at the AMA Computer School in Paco, Manila. After High School, he attended PC Operation Course with Access Technology and PC Refurbishment with ATRIEV ADOC Center.

Life is difficult for him. Going to school in Paco from Dagat-Dagatan Caloocan City to Paco is an everyday problem. To save money, he skips lunch most of the time so he can have money for the next day. To make matters worse, his vision is deteriorating. He finds it difficult to travel alone at night. With limited vision, he can only identify the bus that takes him home from its color. The young man's father is the sole provider for the family.

Working as a security guard, the small salary he makes is the only financial resource for the family with three

children. His father simply cannot provide the financial resources for him to get more help, let alone the walking can that may help him walk in safety at night.

The hardship has not deterred this young man. He is determined to finish his studies. Equipped with the technology and the knowledge he acquired from the PC Refurbishment Course, he works as a part-time Technician in a Computer Shop near the school. He also shares his time and expertise with ATRIEV ADOC Center during his free time. Patience, Perseverance and Potentials... are the three qualities that will lead the young man making his dream a reality.

Stories like this is what motivates ADOC to devote further endeavor to our current projects. We would invite interested partners and corporations to join this project for making it a success. We continuously hope to use ICT to transform digital divide to digital opportunities for the disadvantaged groups in the global village.

For more information about ADOC, please visit <http://www.apecdod.org>.

*Jose Cheng,
Project Manager for ADOC Project, Institute for
Information Industry (III), Taiwan*

**Upcoming IEEE
Conferences in R10**

R10-HTC2013 Call for Papers

R10-HTC2013 Organizing Committee, co-sponsored by IEEE Humanitarian AdHoc Committee, Region10, and Japan Council on behalf of nine IEEE Sections all Japan (Fukuoka, Hiroshima, Kansai, Nagoya, Sapporo, Sendai, Shikoku, Shinetsu, Tokyo) are honored to announce that the first Humanitarian Technology Conference of IEEE Region 10 will be held in Sendai, Japan, in this special period of the history, after the March 11, 2011 Earthquake. Although HTC2013 is a Region 10 event, participants from all over the world will be welcome. Beside technical sessions, we also plan many invited talks, tutorials, exhibits and a tour to the disaster-stricken area.

Following the conference theme of "Lessons learned from Japan's 2011 earthquake and other natural disasters around the world," the technical papers and invited/tutorial tracks will cover disaster-related topics but also open to a wide range of topics:

Information Services: Big Data, Data Mining, Social Media/SNS, Alarm Distribution, etc.

Communication Infrastructures: NW Damage/Recovery, Disaster Tolerance, Role/applications of Communication in Disaster, etc.

Electricity and Energy Infrastructures: Electrical Grid, Power Plant, Batteries, Renewable Energy, etc.

Sensors and their Applications: Remote Monitoring, Sensor Data Aggregation, Location Services, etc.

Robotics and its Applications: Rescue Robot, Life Support Robot, Robots for Unmanned Inspection, etc.

Health and Medical Technology: Telemedicine, Welfare for Elderly People, etc.

Educational Technology: E-Learning, Educational System with Data Mining, etc.

Other Disaster related topics which are not covered by the above

Other Humanitarian Challenges and Approaches

More information on technical sessions, registrations for the conference, hotel reservations and exhibits is available on the R10- HTC 2013 website:

<http://r10-htc2013.org/>

Tomonori Aoyama
IEEE R10-HTC2013 Organizing Committee Chair

TENCON2013 Call for Papers

TENCON is a premier international technical conference of IEEE Region 10. Held annually since 1980, TENCON provides an important forum for researchers and engineers from the industries, and professors and graduate students from the academia to network and to discuss new ideas and development in emerging areas of electrical and electronic engineering, computers science and related fields.

The TENCON 2013 will be held in Xi'an, Shaanxi, China, in October 22-25, 2013. Xi'an is an ancient but vibrant city. Delegates can join the local tours to visit the famous USECO World Heritage Site of Terracotta Warriors and Horses and other historical sites including the City Wall, Qian Tomb, Big Wild Goose Pagoda, Famen Temple, Hua Qing Palace, etc., leaving you with unforgettable memories of Xi'an.

For more details, please visit the website:

<http://www.tencon2013.org>

Looking for more conference & events?

There are a lot of IEEE conferences to be organized in Region 10. Here is the step-by-step instruction to call up all the conferences and events:

1. Please visit the website
<http://www.ieee.org/index.html>
2. Click on the tabs "Conferences and Events" on the top
3. Under "Search Conferences", type in Region 10 Asia Pacific in Location field.
4. Narrow the search by selecting the date range.

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2013-2014**

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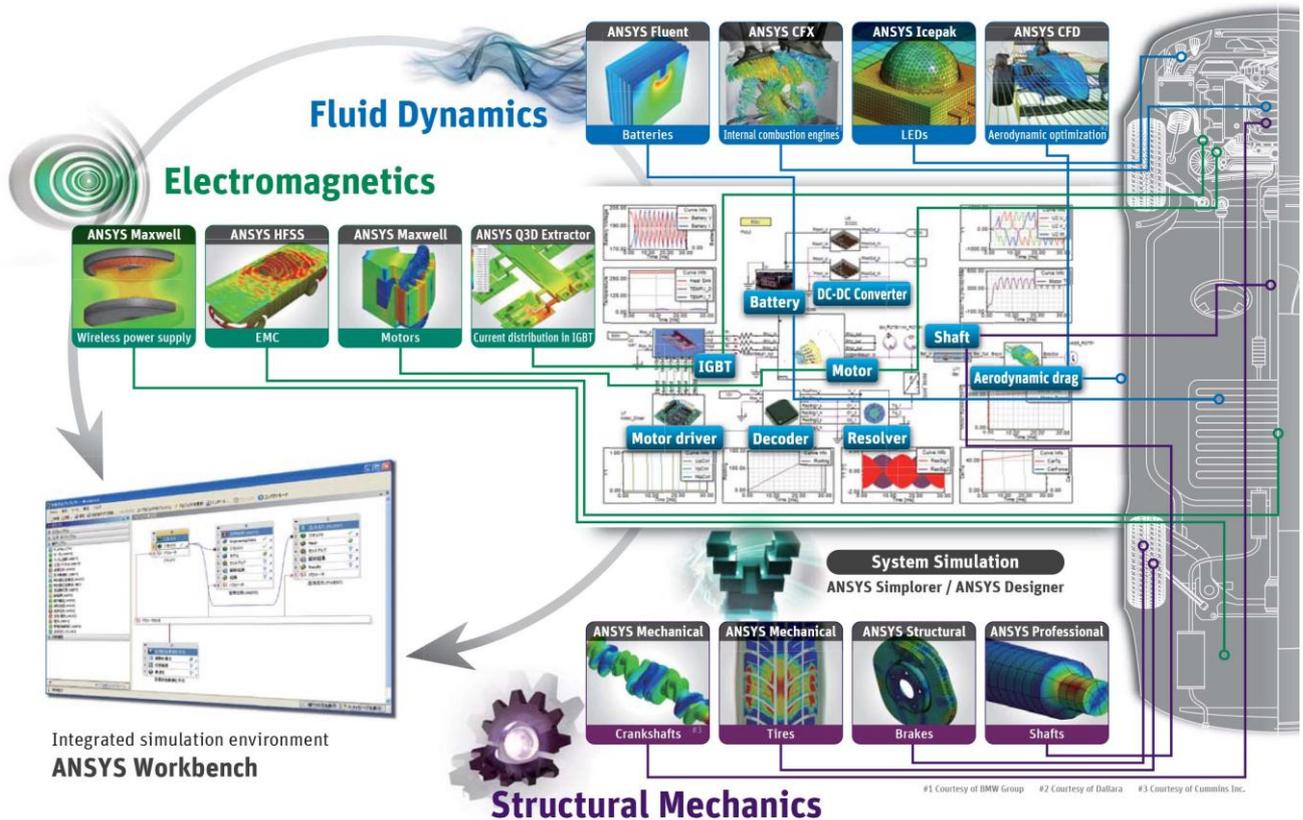
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Integration of Multiphysics and Multidomain Analyses

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