

Message from Chairman



Dear Members,

As you are probably aware, the Region 10 has announced the 2013 Region 10 Distinguished Large Section, Medium Section and Small Section Awards. Bangalore Section is selected for the Distinguished Large Section Award, Pune Section for the Distinguished Medium Section Award and Northern Australia Section for the Distinguished Small Section Award. Each of these awards carries a cash bonus of USD1,000 along with an Award certificate. It is a great honor and pleasure that two of our Sections in India have won the Large Section and Medium Section awards. Let us record our appreciation and greetings to the Bangalore and Pune Sections for their achievement. As you know, there are a number of awards instituted by the IEEE R-10 and IEEE Head quarters. I wish that the IEEE Units in India should try to win as many awards as possible. It is definitely possible if we sincerely work to increase our activities and to improve our Membership strength.

I am happy to place on record that the Second IEEE Region 10 **Humanitarian Technology Conference 2014** was conducted successfully by the Madras Section during 6 -9 August 2014. I sincerely appreciate the Chair and his dedicated team of volunteers and convey my Heartiest Congratulations for their achievement.

The IEEE Computer Society, Pune Section has proposed to organize “All India Computer Society Student Congress 2014” during 13th and 14th December, 2014. The IEEE Electron Device Society, Bangalore Chapter is organizing the 2nd ICEE-2014 from 4-6 December, 2014, at the Indian Institute of Science, Bangalore, with a pre-conference tutorials on Dec. 3rd. IEEE Advanced Technology for Humanity, CTIF Aalborg, GISFI India, IEEE Bombay Section, and IEEE SIT student branch is Technically co-sponsoring the 1st IEEE Global Conference on Wireless Computing & Networking (GCWCN-2014), being organized by the Department of E&TC, Sinhgad Institute of Technology, Lonavala, Pune, during December 22-24, 2014. I appreciate the efforts taken by the various IEEE Units in India for organizing conferences and workshops, as listed above, for the benefits of the IEEE community in India.

As far as the Membership status is concerned, the overall IEEE Membership in June 2014 compared to May 2014 has gone up by 3.8% increasing from 361,445 to 375,272. With respect to the Membership status in India, the MGA has identified India as a high priority country for membership growth. But, seeing the problems of retention of membership in India, MGA has constituted an IEEE Strategic Direction and Environmental Assessment (SD&EA) committee during 2013 to develop a clear plan for India, relating to membership. The High Level Process Steps for the Committee included, critical assessment of applicable internal and external factor data for India, SWOT Analysis, Development of recommended high level strategies and to develop tactical programs for top strategies for MGA. SD&EA Committee

discussed the various issues over a teleconference on 21st June 2014 and has made observations and Recommendations to improve the situation in India. It has been decided to Start with Bangalore Section for implementing the recommendations. Mr. Harish, Director, IEEE India Office (GIEEE) will work with Bangalore Section to come up with proposals in 1-2 months. The Recommendations of SD&EA will be made available in the IEEE IC website. I request all the Sections to do their best to implement the recommendations. I would like to appeal to the IEEE Member Volunteers to make use of the IEEE Member-Get-a-Member (MGM) program to improve the Membership strength in their areas of service.

Looking forward for your support and inputs in future.

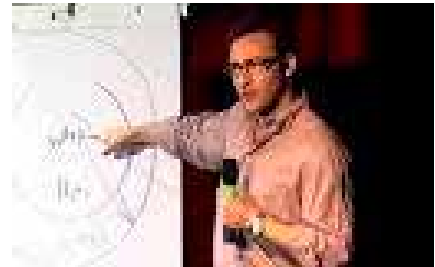


M.Ponnavaikko.

Chair, IEEE India Council With kind regards,

Simon Sinek - Words of wisdom

- **“ If you hire people just because they can do a job, they’ll work for your money. But if you hire people who believe what you believe, they’ll work for you with blood and sweat and tears.”**
- To be authentic is to be at peace with your imperfections. The great leaders are not the strongest, they are the ones who are honest about their weaknesses. The great leaders are not the smartest; they are the ones who admit how much they don’t know. The great leaders can’t do everything; they are the ones who look to others to help them. Great leaders don’t see themselves as great; they see themselves as human.
- When people are financially invested, they want a return. When people are emotionally invested, they want to contribute.
- If I waste my money, I can always make more of it, but if I waste my time, there’s no getting it back.
- Trust doesn't develop from always doing the right thing. It comes from taking responsibility when you do the wrong thing.
- Pushing yourself to be the best is unsustainable. Simply push yourself to be better than the day before.
- Innovation is the application of technology to solve human problems.
- A good leader shares information, even if they don't know the whole story. Without any information, people create their own, which causes fear and paranoia.
- People don't buy what you do, they buy why you do it



Simon O. Sinek: Author best known for popularizing the concept of *"the golden circle"* and to *"Start With Why"*, described by TED as "a simple but powerful model for inspirational leadership all ...
[Wikipedia](#)

Born: October 9, 1973 Wimbledon, United Kingdom

Books: [Start with why](#), [Leaders Eat Last](#)

Education: [Brandeis University](#), [City University, London](#)





Dematurity - Calling for attention

Clayton M. Christensen of Harvard Business School popularized the concept, *Disruptive Innovations*, defined thus: *Disruptive innovation describes a process by which a product or service takes root initially in simple applications at the bottom of a market and then relentlessly moves up market, eventually displacing established competitors.*

This way we saw the toppling of many established businesses operating in comfort zones, blissfully unaware of or refusing to look at the horizon for possible technology or other innovative onslaughts likely to severely affect them. Film based photography, a case in point, had to give way to digital camera and the rest is history. Conventional hoardings on waysides publicizing merchandise for several decades, suddenly were thrown out mercilessly by the computer generated flex-boards, in the process sending many stakeholders to their homes - paint and brush suppliers, artists who used to stand on scaffoldings, drawing pictures of soap brands and film stars. Personal computers (PCs) with their appearance in the 80s posed severe threats to mainframes and minicomputers that were ruling the IT arena... The list is endless.

Now, dematurity, yet another disruptor, is in the process of reshaping old industries and businesses, making them young again.

Here are some excerpts from an article in *Strategy+Business* magazine(<http://www.strategy-business.com>):

When contemplating possible threats to their business, many executives worry about disruption. They see competitors with new technologies poised to capture their existing customers, and they know it's better to be a disruptor than a disrruptee. But disruption is often misunderstood. Many celebrated cases have been less disruptive than they were portrayed as being. What most industries experience as disruption is typically not a sudden change from one source, but the accumulated impact of a range of interacting factors. If you want to be prepared for disruption, it's critical to understand *the more gradual, prevalent, and multifaceted dynamic that underlies it*: a phenomenon called *dematurity*.

Dematurity is what happens to an established industry when multiple companies adopt a host of small innovations in a relatively short time. Those seemingly trivial moves combine to rejuvenate the old mature industry and make it young again. The term was coined in the early 1990s by Harvard Business School professors William Abernathy and Kim Clark. They were thinking of the U.S. auto industry, which was undergoing a profound operational renewal, spurred by Japanese competition, the quality movement, and lean management. Toyota and Honda, with their superior production methods, did not fully disrupt Detroit. They dematured it. Instead of collapsing, the *Detroit Three* adopted their rivals' tools and techniques, and the entire industry advanced to higher levels of quality and customer satisfaction.

You can think of dematurity as a crescendo of mini-disruptions that add up to great effect. It will hit most industries sooner or later; it struck sectors as varied as software development, entertainment, and defense contracting. It is happening right now in the U.S. in healthcare and electric power generation. In the long run, dematurity is a great boon, but it can also be terribly threatening to individual companies. Nearly all cases of dematurity have one thing in common: the genuine surprise of executives when it happens to their industry. It is all too easy to be caught off guard—to ignore the small changes that appear one by one, to fail to believe they will affect you, and to end up at the tail of the wave, outpaced by competitors who saw the possibilities earlier.

The solution lies in gaining better sensitivity—in other words, improving our ability to recognize and respond to the signals of incremental change. This is difficult, but not because information about the pending changes is sparse. Rather, the signals are too abundant: News breaks of deals, partnerships, and market entrances or exits. Scholars, commentators, and business leaders talk of looming disruption. Some of that talk is accurate in its foresight, and some of it is hyperbole. It is difficult to know which is which.

Here, then, to help us sharpen our mental gauge for disruption and dematurity, are five often overlooked but genuinely prescient signals of pending industry change. They reflect more than 20 years of close observation of innovation launches in a variety of industries. These phenomena tend to arise when an industry is on the verge of dematurity. Look for early signs of these five changes, and we can better recognize the impact of today's events—and the trajectory of tomorrow's.

Here are the five indicators that reveal when an industry is about to be transformed by dematurity:

1. New customer habits
2. New production technologies
3. New lateral competition
4. New regulations (comes in both more strict or more relaxed forms)
5. New means of distribution

Unquote:

It is time, we engineers turn our attention to dematurity as well, in addition to the disruption side of industries. Let us probe deeper and prepare for it.

With best wishes for brighter days ahead,

N T Nair



Words of Wisdom

*Drag your thoughts away from your troubles...
by the ears, by the heels, or any other way you can manage it.*
- Mark Twain

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*We must not allow the clock and the calendar
to blind us to the fact that each moment of life is a miracle and mystery.*
- H. G. Wells

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*Great spirits have always encountered violent
opposition from mediocre minds.*
- Albert Einstein

IT in July 2014

Prof. S. Sadagopan Director, IIIT-Bangalore s.sadagopan@gmail.com



General

- On July 15, 2014, India joined Brazil, Russia, China and South Africa to create a historic BRICS Bank (*New Development Bank*); the new Institution will be headquartered in China, India will nominate the first President; Brazil will nominate the first Chairman, Board of Directors and Russia will nominate the first Chairman of Board of Governors, and Johannesburg in South Africa will host a Regional Headquarters; all five countries to have an equal share of the capital - \$ 50 billion initially, to be raised to \$ 100 billion
- Government of India raises FDI cap in Insurance to 49% on July 22, 2014
- World Bank talks of \$12-15 Billion loan to India in 2015
- Evacuation of Indians stranded in war-torn Iraq kept Indian government busy much of July 2014; more than 2,500 nurses return in July
- Malaysian Airlines crash kills 295 people on July 18, 2014; Taiwanese Airplane crash kills 47 on July 23, 2014; Algerian plane crash kills 116 people on July 24, 2014

Markets

- The new Government's Budget was presented on 8th & 10th July 2014 (Railway budget and Main budget); pre-budget expectations take stock market index Sensex to 26,000 on July 7, 2014
- India's e-commerce major **Flipkart** raises \$ 1 billion; its reported market capital evaluation exceeding \$ 6 billion makes front page news
- **Apple** posts record profit of \$ 7.7 billion and \$37.4 Billion sales in April-June quarter of 2014
- **Google** buys music streaming service **Songza**, that uses music experts to curate content (Playlists) on July 1, 2014
- **Twitter** buys **TapCommerce**, (startup focusing on Advertisement service to target existing base of mobile customers) on July 1, 2014

Products

- Chinese smartphone manufacturer **Xiaomi** launches first handset **Mi 3** in India on Flipkart July 8, 2014; it crashes the website; reportedly sold 100,000 units within 34 minutes of launch!
- **Samsung Galaxy Tab S Tablet** (8" and 10" versions) with LTE support launched in India on July 15, 2014
- On July 16, 2014 Microsoft talks of sub \$ 200 **Windows laptop from HP** for 2014 holiday soon
- Indian electronics store major **Croma** launches Intel processor-based **Windows 8.1 Tablets** at ₹11K and ₹13K price points on July 31, 2014

Indian IT companies

- Indian IT services leader **TC Spots** strongest growth in 3 years; its market capitalization touched ₹5 Lakh crores (\$ 80 billion) in July 2014
- **Flipkart** to add 12,000 people to its 12,000 strong employees and looking for 1.5 million sq. ft. Office space in Bangalore in July 2014
- Mysore-based **Skannray** (2007 founded) acquires Italian X-ray firm CEI Italy on July 17, 2014; with earlier acquisition of medical units division of Coimbatore-based **Pricol** and **L&T**, Skannray is

emerging as major force in medical equipment supply, where India has no place so far

- India's IT services major (4th among Top 10) **Wipro** bags \$1.2 B contract from Canadian utility **Atco** for 10 years on July 18, 2014; it also buys its IT subsidiary Atco I-Tek for \$195 million
- **Infosys** wins multi-year contract from **Daimler Chrysler** on July 22, 2014

MNC companies in India

- **IBM** signs deal with micro-finance company Janalakshmi for six years (20 million accounts by 2020)
- **Wal-Mart** starts Biz-to-Biz e-Commerce in India in July 2014
- **Apple** and **IBM** join hands to promote iPad adoption in corporate sector in July 2014
- **Ericsson** opens 4th global data center in Kolkata on July 8, 2014
- **Amazon** to invest \$ 2 billion in India as per CEO call on July 30, 2014
- **Intuit** acquires Jaipur-based KDK software (set to be used by “1 out of every 5 accountants” in India) on July 31, 2014

People

- Gen. Suhag with very humble beginning becomes India's 26th Army Chief on July 31, 2014
- Bank of Baroda CMD SS Mundra takes over as RBI Deputy Governor on July 31, 2014
- Distinguished visitors to India during July 2014 include
 - o US Secretary of State John Kerry
 - o World Bank President Jim Yong Kim
 - o Facebook COO Sheryl Sandberg

Education & Research

- Boston University Professor Sushil Vachani takes over as Director, IIM, Bangalore on July 1, 2014
- India-born Prof Sujit Choudhry becomes the Dean of UC Berkeley's Law School on July 6, 2014
- Dr. Gopich and Katragadda, Head Research in GE Tech Center in Bangalore set to be Technology Adviser to Cyrus Mistry, Chairman of Tata Sons
- Dr. Nikhil Srivastava of Microsoft Research India wins 2014 George Polya Prize for solving Kadison Singer problem on July 31, 2014

Telecom

- Airtel has 300 million telephone customers by July 31, 2014

Infrastructure

- **Uri II** Power station with 240 MW capacity goes on stream in Kashmir on July 4, 2014; Katragadda-Udampur Railway line that connects Vaishnavo Devi temple was inaugurated on July 4, 2014

Interesting applications

- **State Bank** (SBI) launches “**InTouch**” (touch banking) in July 2014
- Punjab and Haryana High Court use VPN to go “paperless” on July 15, 2014, the first to do so in India
- Unusual start-ups **TravelKhana**, **MeraFood** and **TrainKhana** use Apps to deliver food to train passengers in the place of their choice
- Prime Minister launches **MyGov** as a way to connect the citizens with the Government on July 26, 2014
- Bangalore's electric utility **BESCOM** makes bills (including past bills, usage analytics) just a click away from July 31, 2014

Interesting numbers

- **Telecom subscriber** base on May 31, 2014 stood at 938.34 million with 910.16 million mobile subscribers and 28.18 million wire-line subscribers (with net addition of 2.71 million mobile subscribers and net reduction of 0.18 million wire-line subscribers in May 2014) (TRAI Press Release No. 37/2014 dated July 7, 2014)
- **India's Foreign Exchange** on July 31, 2014 was at \$ 320.7 billion (RBI)
- **Indian Rupee** stood at 61.18 against USD on August 1, 2014 (RBI)
- On July 31, 2014 **BSE Sensex** and **NSE NIFTY 50** (Indian stock market indices) were at 25,739 and 7,667 respectively (Reuters)
- **TCS** is No 3 globally in headcount; IBM (4,31,212), HP (3,17,500), TCS (300,464), Accenture (280,000), Cognizant (178,000), Fujitsu (168,733), Infosys (169,405) are Top Tech employers as of June 2014; Coal India (357,926), BSNL (244,891), SBI (223,000) are the other big employers
- **E-Commerce companies** in India to hire 60,000 professionals in 2014
- **Microsoft** announces 18,000 job cuts across the globe; small-size cuts in India too
- **Twitter** buzz reached 672 million during World Cup (12th June to 13th July, 2014)
- **Flipkart** turnover touches \$ 1 billion by March 2014, raises \$ 1 billion by July 2014 and valuation reach \$ 5 billion!
- **NASSCOM** talks of 1.8 Lakhs job creation in 2014-15 by the \$ 107 billion Indian IT industry that employs 3.1 million currently
- **TCS** has a market capitalization of ₹ 5 Lakhs Crores (\$ 84 billion) compared to Infosys (1.9), Wipro (1.4), HCL (1.1) in Tech Industry and ONGC (3.5), Reliance (3.3), ITC (2.8) and Coal India (2.4)
- **Airtel** has 300 million telephone customers by July 31, 2014 (100 million in 2009, 200 million in 2012, started in 1995)

Professor Sowmyanarayanan Sadagopan (ss@iiitb.ac.in) is the Director of IIIT-Bangalore.
These are his personal views.



Words of Wisdom

*Before you can learn a new way of doing things,
you have to unlearn the old way. So beginnings depend on endings.*

- Rick Maurer

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*We must remember that one determined person can make a significant difference,
and that a small group of determined people can change the course of history.*

- Sonia Johnson

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*The purpose of life, after all, is to live it, to taste experience to the utmost,
to reach out eagerly and without fear for newer and richer experience."*

- Eleanor Roosevelt

Information Resources

Compiled by

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How 'Solar Roadways' plans to create smart roads to produce clean energy and save lives and money: A smart grid of solar roads could reduce pollution, improve the economy, and have the potential to produce three times the amount of power the US currently uses. About an hour south of the Canadian border, in Sandpoint, Idaho, a visionary couple came up with a ridiculous plan. They decided we should replace all the asphalt roadways with solar panels, which would drastically reduce our greenhouse gas emissions and generate clean, renewable energy. Turns out, this project is actually far more practical than it sounds. Full story at <http://goo.gl/jqWMQv>

10 foods that technology has transformed: As a society, we are getting more curious about our food -- where it comes from, how it's made, where it goes, how it affects our world, and how technology is changing it. Of course, technology has been changing our food for decades, beginning with modern agriculture tools and genetically engineered produce. But it affects our food in more ways than we realize. Research shows about 70% of our calories come from processed food -- and it makes sense when you try to pronounce half of the ingredients on the back of most any grocery store item. Technology has changed food for the better, though, as well. Not only does it give us a chance to feed our population that's growing closer to 9 billion people, but it also offers new ways to grow food as we face a future of a changing climate. Hydroponics, aeroponics, vertical and urban farming, and lab-grown foods are all driving big changes. To read the 10 common foods that have been powerfully altered by technology pl. visit <http://tek.io/1jfSND5>

Iconic Microphone Is Named an IEEE Milestone: It was the microphone of choice for Frank Sinatra and Elvis Presley, and it has been used by politicians around the world, including every U.S. president since Lyndon B. Johnson. The Shure Unidyne was recently named an IEEE Milestone in Electrical Engineering and Computing. Full story at <http://bit.ly/1kKNpME>

The inside story of the open source PC, and how it could stop you being a slave to your hardware: Hardware engineer Andrew 'bunnie' Huang on how his path to building an open source computer started with a childhood fascination with the Apple II and why we need to rediscover open hardware. Full story at <http://tek.io/TAmKaQ>

10 things you should know about Bitcoin and digital currencies: Bitcoin has injected itself into a lot of conversations about the future of technology, economics, and the internet. The future of digital currencies remains a controversial topic. After reading these 10 things to know about the confusing world of digital currencies, you'll feel confident joining the conversation. More at <http://tek.io/110NYwU>

10 apps to take your IT job search mobile: The job hunt is going mobile. Read about 10 apps to help you land a technology gig from your phone at <http://tek.io/1pw0ASb>

Video resumes: The good, the bad, and the ridiculous: Job hunters are turning to video resumes to stand out from the crowd. Read some tips on how to use a video resume to land a job, and avoid becoming an office joke at <http://tek.io/1nuirZd>

From agribusiness to subsistence: high-tech tools now available to all: Devised for industrialised farms, precision agriculture now has the potential to increase the yields of smallholder farmers. Full story at <http://bit.ly/1pw8HOF>

15 ways to fund drugs for development: From making research openly available to tackling counterfeits, our panellists reflect on how to develop high-quality drugs for diseases of poverty without breaking the bank More at <http://bit.ly/1ke8ytQ>

Special Report: The Self-Driving Car: To know all the tech tricks and politics that will make driverless cars common place, pl. visit <http://bit.ly/1liAjpJ>

Special Report: The Future We Deserve: We don't know precisely what the next 50 years will bring. But we have an excellent idea of what will be possible, and we know what we hope will happen. So here are scenarios for eight of the most promising of today's technologies. If they develop along the lines we describe, we'll get the future we deserve. More at <http://bit.ly/1n2hHbX>

Eight Easy Ways to Green Your Business: Greening your business has short-term effects that will save you money, let employees breathe better, and maybe even help land you a few more customers. These tips, sites, and kits can help your business go green. More at <http://bit.ly/1115m4P>

Sound the Alarm: A History of Disaster Detection and Warning Technologies: Electrical and computing technologies have greatly enhanced the ability to warn of impending natural disasters. Before electrical communications, a severe storm simply traveled faster than observers could warn of its formation. Read the full story at <http://goo.gl/HdT1uC>

Phonebloks – A Stunning Innovation (Phone Idea): Now a phone that comes apart like a lego toys. Phonebloks designed by Dutch designer Dave Hakkens, aims to negate the way people currently buy and dispose electronics. Hakkens is of the view that current consumer behaviors are inherently wasteful. Whenever new devices comes out, old ones are tossed into the garbage or put on the shelf to collect dust. Hakkens wants to change this with a Lego-like device where parts of the phone only (not the entire device), can be replaced. More at <http://goo.gl/nKOOHY>

11 reasons encryption is (almost) dead: Everyone who has studied mathematics at the movie theater knows that encryption is pretty boss. Practically every spy in every spy movie looks at an encrypted file with fear and dread. Alas, this theorem of encryption security may be accepted as proven by math geniuses at Hollywood U., but reality is a bit murkier. Encryption isn't always perfect, and even when the core algorithms are truly solid, many other links in the chain can go kablooi. There are hundreds of steps and millions of lines of code protecting our secrets. If any one of them fails, the data can be as easy to read as the face of a five-year-old playing Go Fish. Encryption is under assault more than ever -- and from more directions than previously thought. This doesn't mean you should forgo securing sensitive data, but forewarned is forearmed. It's impossible to secure the entire stack and chain. This post at <http://goo.gl/u7TcR9> lists 11 reasons encryption is no longer all it's cracked up to be.

Power Of Thinking Differently– Invent, Imagine, Create, Disrupt.. Change The World: Companies Must Think Different Or Fail...: Thinking differently: Here's to the crazy ones. The misfits. The rebels. The trouble-makers... Here's to the ones who see the world differently... They're the ones who invent, imagine, create... They're the ones who push the human race forward. While some may see them as the crazy ones, we see genius. Because the people who are crazy enough to believe they can change the world are the ones who actually do– they 'think different'... This theme is from– Apple's, Steve Jobs; 'Think Different' Ad campaign, 1997... According to Lauchlan Mackinnon; I've been thinking quite a bit lately about just what exactly it means to 'think differently' and the meaning is not as simple as it sounds! The Apple campaign was very clever– it inspired people to become one of those– crazy ones, one of these innovators, one of the people who change the world... But this Apple theme also, interestingly, explored– who thinks differently, how people who 'think different' can be geniuses or misfits or exceptional or stubborn, they might or might not fit in... But they make a difference– they do important work and they change the world... Also, there are other ways people can think differently, for example: Be revolutionary– question old ways of doing things... Be an innovator– create new powerful ways to do things... Be creative– express new powerful ideas... Be a performer– push boundaries, think in new ways that lead to improved results... Be a seeker– gain a deeper, better understanding of the world... Be a visionary– imagine an expanded vision of what's possible and what's worthwhile... Be independent– think independent for yourself... Be a leader– have the courage to discover and express your individual uniqueness... Full story at <http://bit.ly/VKN3MR>

Here's How Nikola Tesla, Thomas Edison Stack Up As Inventors: Nikola Tesla would have celebrated his 158th birthday recently (10). The Serbian-American scientist was a brilliant and eccentric genius whose inventions enabled modern-day power and mass communication systems. His nemesis and former boss, Thomas Edison, was the iconic American inventor of the light bulb, the phonograph and the moving picture. The two feuding geniuses waged a "War of Currents" in the 1880s over whose electrical system would power the world — Tesla's alternating-current (AC) system or Edison's rival direct-current (DC) electric power. Amongst science nerds, few debates get more heated than the ones that compare Nikola Tesla and Thomas Edison. So, who was the better inventor? Read the full story at <http://huff.to/1wrJeqZ>

11 Simple Inventions That Could Change The World: We have a tendency to lionize mankind's mind-bogglingly complex inventions. It's why we teach our children about the Alexander Graham Bells and Thomas Edisons of the world, and scour the Internet for every little iPhone rumor we can find. But sometimes, it's the simple technologies that truly change the world. Think of what pasteurization did for public health or what mechanical clocks did for, well, time. These unheralded inventions maybe don't appear incredibly complicated at first glance, but they nevertheless improved the lives of countless people. So what are the little-known technologies that hold the power right now to transform the world for the better? We decided to find out and give them their due. Full story at <http://huff.to/1meRFQK>

Innovation Earth: This Technology Could Make Red Lights Obsolete And Boost MPG By 30 Percent: The Treasury Department estimates that traffic congestion wastes 1.9 billion gallons of gas and costs American drivers \$100

billion (in lost fuel and time) a year. Add an extra five seconds to a light here and there from a texting or web-surfing driver, then multiply that times the 311,000 traffic signals in the US flashing red and green for the more than 250 million cars on the road, and you start to sense the enormity of the problem. Full story at <http://huff.to/1wrNTZX>

Space lives! 10 projects powering the next generation of space tech: Space exploration is far from dead. There are many innovative projects occurring around the world to advance our understanding of the universe, and they're using amazing technologies. When NASA started announcing huge budget cuts, it crushed the hopes of space exploration geeks everywhere. But fear not -- innovation is still alive and well in the US and around the world through private and public companies, governments, and space agencies. There are plenty of projects to progress planetary science, deep space exploration, and the search for extraterrestrial life forms. Here are 10 of the most mind-blowing ones we know. Full story at <http://tek.io/1AmyE8t>

Computer vision and the future of mobile devices: Computer vision and machine learning may play a role in the next evolution of mobile device. Another emerging area of mobile technology to watch out for is computer vision. According to Raja Bala, principal scientist, area manager of Xerox/PARC/Systems Lab, computer vision is capturing images or video with software trying to make sense out of them. Applications of such technology include the recognition of faces, objects, and landmarks with mobile devices. The emphasis is in building software algorithms that can operate fast and in real time on a smartphone. "Computer vision is making sense out of visual data. It involves capturing and using machine learning to make sense of it," Bala said. It's not quite an out of the box solution. There's a lot that takes place behind the scenes with training the machine-learning component of computer vision to understand objects and even faces. Full story at <http://tek.io/1t5Ht46>

Special Feature: 3D Printing: Building the Future: When you look at the industries that 3D printing is destined to disrupt in the future, the list is long and distinguished. Here is our take on the state of 3D printing, the ways companies are using it today, and how it's going to revolutionize the future of business. Access the feature having 12 stories at <http://zd.net/VtMNRN>

The digital fightback: The struggle to stop work taking over our lives: German carmaker Daimler is the latest company to try to discourage staff from using computers and phones to work out of hours. But is it fighting a losing battle? Read the story at <http://tek.io/1qfuJDg>

Glossary: Startup and Venture Capital terms you should know: The startup world operates on a lot of lingo. This guide at <http://tek.io/1pw4VEX> will give you a better context to understand the language of startups, venture capitalists, angel investors, and incubators.

9 Free Business Productivity Tools For Startups: Starting a business can be a daunting endeavor, especially if all you have is a cool product and not enough capital. In the tech world, or in any other niche for that matter, most startups fail not because they have bad products but because they are unable to generate enough consumer interest in their products. Considering overheads and other back-office expenses, this scenario doesn't come as a surprise. So if you're still starting out and find yourself strapped for much needed funding to keep your startup afloat, the following free business productivity tools are worth checking out. Check them at <http://bit.ly/1rfpgTa>

18 Of The Best Cloud Platforms For Your Business: In recent years, traditional business models in terms of infrastructure and management have been disrupted greatly by the rapid development of the Software-as-a-Service (SaaS) industry. But with literally hundreds of choices available for nearly every function from HR to Accounting, all offering the ability to streamline processes several fold through cost savings, flexibility and the benefits of scalability as your company grows – choosing the right cloud platforms for your company can often be a daunting task. While no means exhaustive, in no particular order we've put together some of the best and most popular cloud platforms across six crucial business functions. With no one single platform being a one-size-fits-all solution, start from our recommendations as you explore options for your company – and find the cloud platform with the features and functionalities most ideal for your business!

Healthcare IT is Enabling the Digital Doctor: By fusing innovative digital solutions with existing healthcare knowledge, communications and high-tech companies and the health industry are developing cost-effective new ways to engage patients and deliver care, anywhere, anytime. Download the post from <http://bit.ly/1v1OZfi>

Growth Strategies for a Digital World: By any measure, the world is increasingly digital. So the most fundamental questions for business leaders are these: how will digital technology deliver growth? And what must we do to ensure that we become a truly digital business? To properly answer those questions, executives must confront the challenges that connect digital technologies to business growth. Being a digital business is more than equipping the field sales force with iPads or striving for "Likes" on Facebook or even putting more of the organization's data in the cloud. Digital business leaders seek new sources of growth and results from using technology to extend the potential of products and services, resulting in higher performance through new combinations that can benefit the organization's customers, its workforce and its trading partners. Full story at <http://bit.ly/VuZTxK>

Book: Clustering: Author(s): Xu, R.; Wunsch, D. Publisher: Wiley-IEEE Press . This is the first book to take a truly comprehensive look at clustering. It begins with an introduction to cluster analysis and goes on to explore: proximity measures; hierarchical clustering; partition clustering; neural network-based clustering; kernel-based clustering; sequential data clustering; large-scale data clustering; data visualization and high-dimensional data clustering; and cluster validation. The authors assume no previous background in clustering and their generous inclusion of examples and references help make the subject matter comprehensible for readers of varying levels and backgrounds. IEEE members can access the book at <http://bit.ly/SLcNGW>

Book: Nuclear Physics: Author: R. Prasad. Publisher: Pearson Education India. Pages 492+xii. This book apart from providing a concise introduction to the subject, reviews the evolution of the subject from its emergence to its present-day advancements and examines the future directions of nuclear particle physics. It brings together the essence of nuclear, particle and cosmic ray physics and serves as a text for undergraduate engineering students. The salient features of this book include: Exclusive chapters on elementary particles and cosmic rays; Focus on contemporary developments like heavy ion reactions, in-complete fusion, neutrino oscillations, big accelerators, colliding beam experiments & Higgs's particle; Over 220 illustrations and over 300 MCQs and problems for practice.

eBook: Washington Accord & Multi-Objective Integrated Model for Developing WCU: The Indian Higher Education Story Needs To Be Rewritten. This book deals with Integrated Model for developing World Class Universities (WCU) and Tier-1 Institutes under Washington Accord to achieve multiple objectives. It highlights the crucial role of various factors like Globalization, Good Governance, Finance, GDP, Knowledge Based Society, Nation Building, Brand Name, Benchmarking, Productivity, Graduate Attributes and Employability etc. This model consists of hundreds of factors with Complex Inter Relationships among them. Without understanding this complex relationship it is difficult to develop World Class University or Institute. This model will give very clear direction and Roadmap for developing World Class Universities and Institutes in India and rest of the world. To download this eBook, pl. visit <http://bit.ly/VuXAuK>

Contest: Star Innovator 2014: Registrations are open now for Mumbai, Bangalore, Chennai and Hyderabad zones only and closes on 18th August for Bangalore and Hyderabad and on 23rd August for Chennai. **IEEE India Student Activities Committee** in association with **Lambda Edulabs** is organizing **Star Innovator 2014**, contest on innovation which is a combination of workshop, project internship and contest to be held from August to October 2014. Interested student members can register and participate in this one of its kind event which is organized at pan India level. Star Innovator is a premier contest for identifying, encouraging and developing student innovators of this country to solve the problems of today and tomorrow through innovative patents, products and solutions. The idea is to bring out the innovation from India for India. **Contest Tracks:** Robotics, Arduino, Solar, Android. The contest involves workshop, project internship and zonal contest.. The selected top two project teams of each track will receive the below mentioned recognition. **Zonal Level Contest: Winner-up Prize: INR.10000 + Certificate of appreciation; Runner-up Prize: INR.5000 + Certificate of appreciation.** **Registration:** The registration fee includes, fee for participating in the workshop, project internship and zonal contest. Each team will be provided with a workshop kit; student can participate as individual/in twos/in threes and share the fee accordingly. To register: <http://starinnovator.com/registration/>

CSC Newsletter: The IEEE Council on Superconductivity was pleased to bring you the inaugural issue of the CSC Newsletter. It is permanently posted on the CSC website for your viewing pleasure: <http://ieeecsc.org/newsletters/ieee-csc-newsletter-issue-1-2014>

TechQuiz-2014-08

- 1.----- is the 3D mobile game from Indian Air Force
2. Who had said this: $IT + IT = IT$
- 3.----- has become the first person to receive 100m 'likes' on Facebook.
- 4.----- is the political leader to have the 2nd largest no. of Twitter followers after the US President Barack Obama.
5. In the 70/20/10 Model for Learning and Development, how much is learnt from courses and reading.

Email your answers by 5th Sep 2014 to ieee.techquiz@gmail.com with subject "techquiz-2014-08". Please provide your full address and contact phone numbers after the answers. Randomly selected two who have answered correctly will receive a prize of Rs. 250/= each from IEEE Computer Society Madras Section.

Answers to TechQuiz-2014-07: Excite, Calico, "Don't be evil", Googleplex, Orkut

Winners of TechQuiz-2014-07: As no correct entries were received, there are no winners to receive the two cash awards of Rs. 250/= each.



Ultra-stretchable Fibers

With Electrical Conductivity intact

Electronic textiles (e-textiles or smart textiles) are fast emerging as a major area in textile industry. These fabrics will have electronic sensors, digital circuits with computing and/ or communication capabilities etc. embedded in them to do specific functions - say, for example, monitoring body's vital parameters like temperature, blood pressure etc. The field of embedding advanced electronic components onto textile fibers is also called fibertronics. One of the fundamental requirements in such fabrics is to have the ability to stretch some of the interwoven fibers that are required to conduct electrical signals among the digital components.

Now researchers led by Dr Michael Dickey, assistant professor of chemical and biomolecular engineering at North Carolina State University, have created a wire that retains its electrical conductivity even when stretched eight times its length. The fibers consist of a liquid metal alloy, eutectic gallium indium (EGaIn), injected into the core of stretchable hollow fibers composed of a triblock copolymer, poly[styrene-*b*-(ethylene-co-butylene)-*b*-styrene] (SEBS) resin. The hollow fibers are easy to mass-produce with controlled size by using commercially available melt processing methods. The fibers are similar to conventional metallic wires (metal core, surrounded by polymeric insulation), but can be stretched orders of magnitude further while retaining electrical conductivity. Dr Dickey said: "Our approach keeps the materials separate, so you have maximum conductivity without impairing elasticity." For example, users of headphones may never again have to run the risk of the wires breaking, thanks to these stretchy cables.

While making the stretchy wires is relatively easy, Dickey says, solving the problem of the liquid metal leaking out of the polymer if the wires are damaged will have to be address before they find their way into popular electronics like headphones or phone chargers or used to make electronic textiles.

[Source: www.ncsu.edu, www.ccm.ece.vt.edu, <http://en.wikipedia.org>]



Hydrogen Storage

A Nano-scale Solution

Hydrogen is considered a major alternative fuel source of the future to run vehicles, portable electronic devices and a host of other day to day applications. But all these warrant practical methods for hydrogen storage.

For the first time, researchers at the University of New South Wales (UNSW), Australia, have demonstrated that hydrogen can be released and reabsorbed from a promising storage material, a commonly overlooked chemical compound, sodium borohydride, overcoming a major hurdle for its storage. Lightweight compounds known as borohydrides (including lithium and sodium compounds) are known to be effective storage materials, but it was believed that once the energy was released it could not be reabsorbed - a critical limitation, which has now been overcome.

The UNSW researchers have synthesized nanoparticles of sodium borohydride and encased it inside nickel shells, demonstrating that energy in the form of hydrogen can be stored with this chemical at practical temperatures and pressures. In its bulk form, sodium borohydride requires temperatures above 550°C just to release hydrogen. But with their core-shell nanostructure, the researchers saw initial energy release happening at just 50°C, and significant release at 350°C. By controlling the size and architecture of core-structure, their properties can be tuned so that they can release and reabsorb hydrogen, according to researchers.

The development is expected to herald significant advances in the design of novel hydrogen storage systems.

[For details: <http://newsroom.unsw.edu.au>, <http://www.asianscientist.com>]



IEEE NEWS

From Around India



**2nd IEEE International Conference on
Emerging Electronics
3-6 December 2014
J. N. Tata Auditorium
Indian Institute of Science, Bangalore**



General Chairs

Rudra Pratap (IISc)

Anil Kottantharayil (IIT-B)

Steering Committee Chairs

*Renuka Jindal (Univ. of Louisiana
at Lafayette)*

M.K.Radhakrishnan, NanoRel

Technical Committee Chairs

K N Bhat (IISc)

Saurabh Lodha (IIT-B)

Organizing Committee Chairs

S A Shivashankar (IISc)

Sanjeev Srivastava (IISc)

Publicity/Industry Liaison Chairs

S. Mohan (IISc)

Navakanta Bhat (IISc)

Tutorial Chairs

Srinivasan Raghavan (IISc)

Swaroop Ganguly (IIT-B)

Advisory Committee

S. Mohan (IISc)

J. Vasi (IIT-B)

IEEE Liaison

M.K.Radhakrishnan, Nanorel

Contact Us:

ICEE Secretariat,

Centre for Nano Science

and Engineering (CeNSE),

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Email: icee@cense.iisc.ernet.in

Phone: +91-80-23603281

<http://www.cense.iisc.ernet.in/icee>

2nd IEEE International Conference on Emerging Electronics (ICEE) will be held at J N Tata Auditorium, Indian Institute of Science during December 4-6, 2014. The theme of the conference is "From Materials To Devices". ICEE 2014 will be technically co-sponsored by IEEE Electron Devices Society.

TUTORIAL: There will be pre-conference tutorials on December 3, 2014.

FOCUS AREA: The following focus areas have been identified for ICEE 2014.

(a) Advanced Logic & Memory devices (b) Photovoltaics and Energy Systems
(c) Flexible Electronics (d) Nano-electro-mechanical Devices and Systems
(e) Nanobiosensors (f) Low - dimensional Semiconductors: Growth & Applications
(g) Photonics and Plasmonics Computational Modelling at the Nanoscale
(h) Semiconductor Process Technologies Compound Semiconductor Devices
(i) 3-D Systems and Packaging Technologies.

IMPORTANT DATES:

4 Page camera ready manuscript submissions: August 16, 2014

Paper acceptance notification: September 10, 2014

Early registration deadline: September 15, 2014

SUBMISSION OF MANUSCRIPT:

Please submit the manuscript in IEEE format (see ICEE-2014 website) only through EDAS website: <https://edas.info/papers.php?c=17877>

This conference is included in the IEEE Conference Publications Program (CPP). IEEE has a long-standing commitment to ensuring the high quality of its conferences and of the conference proceedings published in IEEE Xplore®. The 1st ICEE proceedings are available at:

<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6621060>

REGISTRATION FEE:

Category	Early Bird Registration Before September 15, 2014		After September 15, 2014	
IEEE Member	Rs.4000	\$200	Rs.5000	\$300
Non-IEEE Member	Rs.5000	\$300	Rs.6000	\$400
Students	Rs.3000	\$150	Rs.4000	\$200

Pre-conference tutorial: Delegates: Rs.2000/, Students: Rs. 1000/.

2014 International Conference on High Performance Computing and Applications (ICHPCA)

[www.ichpca-2014.in]

22-24 December, 2014

AT

C. V. Raman College of Engineering, Bhubaneswar, Odisha
**Technically Sponsored by IEEE Kolkata Section & CSI Div-
V(E&R)**

Proceedings will be published in IEEE Xplore

CALL FOR PAPERS

Original high quality papers are invited for the following tracks. For more details on each track please visit the links: <http://www.ichpca-2014.in/call.php> & [http://www.ichpca-](http://www.ichpca-2014.in/style.php)

[2014.in/style.php](http://www.ichpca-2014.in/style.php)

[Track-1: Parallel and distributed architectures](#)

[Track-2 : Parallel and distributed software](#)

[Track-3 : Performance in Communications and Networks using HPC Techniques](#)

[Track-4 : High Performance, Parallel and Distributed Algorithms](#)

[Track-5 : Parallel and Distributed Computing in Data Bases and Data Mining](#)

[Track-6 : Optimization and Computational Intelligence](#)

[Track-7 : HPC in Scientific, Engineering, Medical and Social Applications](#)

Paper Format: <http://www.computer.org/portal/web/cscps/formatting>, & http://ichpca-2014.in/2014_04_msw_a4_format.doc

Kindly send your paper through online paper submission link

<https://www.easychair.org/conferences/?conf=ichpca2014>

Important Dates

Paper Submission, Last date	: <i>15th Aug 2014.</i>
Notification to Authors for Acceptance	: <i>15th September 2014.</i>
Last date for receiving Camera Ready Paper	: <i>1st October 2014.</i>
Last Date for Author Registration & Copyright form submission	: <i>5th October 2014.</i>

Contacts

Conference E-mail: ichpca2014@gmail.com

Mobile Contacts:

Prof. (Dr .) Rachita Misra, Convener (91 9438485177)
Dr. Brojo Kishore Mishra, Publication (91 9437875808)
Mr. Debasis Mohanty, Tech/Web support (91 9853325323)

Address for correspondence:

Department of Information Technology, C. V. Raman
College of Engineering, Bidyanagar, Mahura, Janla
Bhubaneswar - 752 054, Odisha, India

IEEE INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE & COMMUNICATION TECHNOLOGY

(Technically sponsored by IEEE UP Section)

13-14 Feb, 2015

ABES ENGINEERING COLLEGE, GHAZIABAD

Call for Papers

ABES Engineering College, Ghaziabad, one of the pioneer institutions in the field of Engineering, Research and Technology is organizing its 1st IEEE- International Conference on Computational Intelligence & Communication technology: CICT-2015

Venue:

ABES Engineering College, Ghaziabad

Important dates:

Paper submission deadline : 31st August, 2014

Notification of acceptance : 15th Oct 2014

Camera ready Paper Submission Deadline : 15th Nov 2014

Last Date of Registration : 15th Dec 2014

Conference website: <http://www.cict.abes.ac.in>

Contact person:

Dr. Munesh Chandra Trivedi M. Tech.(CSE), Ph.D.(CSE),

Organizing Secretary, IEEE-ICICT-2015

Sr. Associate Professor, Dept. of Computer Science & Engineering. ABES Engineering College, Ghaziabad Phone: +91-9999013200

Webpage: <https://sites.Google.com/site/profdmuneshchandratrivedi>

E-Mail: munesh.trivedi@gmail.com, munesh.trivedi@abes.ac.in

2ND IEEE INTERNATIONAL CONFERENCE ON MOOCS, INNOVATION AND TECHNOLOGY IN EDUCATION

19-20 Dec, 2014 at Thapar University, Patiala, Punjab, India by IEEE Education Society

Conference Website: <http://ieeemite2014.com/>

Papers are invited on wider aspects of Education and Computing including the following, but not limited to:

- Education technology
- Bringing innovation as part of education
- Accreditation, Quality and Assessment
- Massive Open Online Courses
- Education paradigms in developing and developed World
- Case studies of teaching learning process
- Computing research for advancing education technology
- Education policies, strategies and opportunities in India

For call for papers go to <http://ieeemite2014.com/call-for-papers>

Submission deadline: **September 30, 2014**

Papers to be submitted to deepakgarg@ieee.org

For author instructions go to <http://ieeemite2014.com/author-instructions>

Proceedings of the conference will be published in the *IEEE Xplore* (Catalog Number: 978-1-4799-6876-3) and submitted to various popular indexes for archiving.

Conference is being organized in association with IEEE Computer Society Chapter, India Council and Computer Society of India, Div IV Communications and Infosys Ltd.

For sponsorship & support go to <http://ieeemite2014.com/sponsors>

News from IEEE Kerala Section

Visit by Dr. Kukjin Chun

Dr. Kukjin Chun, Professor at Electrical and Computer Engineering department of Seoul National University, visited Kerala Section on the 12th of July, 2014. Dr. Kukjin enlightened the members of Kerala section on the various research efforts in MINT Lab at Seoul National University and also enlisted possibilities of collaboration between various section in R10 for research and development.



E-Scientia Inauguration

IEEE E-Scientia, a hands-on scientific space center exhibit, intended to engage pre-university students with know-how on engineering and technology, and to raise awareness and interest about careers in these disciplines, was established at the Centre for Science in Society (C-SiS), Cochin University of Science and Technology, Cochin. Developed through partnerships between IEEE Sections and science centers, IEEE E-Scientia enables IEEE volunteers to make informal engineering and technology education opportunities available to teachers, students and the public in their local communities. This E-Scientia exhibit takes students/visitors on an engineering-themed adventure using multimedia interactives and hands-on exploration of science and technology concepts. During the experience, students are challenged to take on the role of engineers to solve real-world technology problems. The flagship IEEE E-Scientia exhibit was established at the Espacio Ciencia in Uruguay in 2010. The exhibit has since expanded to the B.M. Birla Science Centre in Hyderabad, India and the Shanghai International Sci-Tech Exchange Center in Shanghai, China. This, the 8th one, would be the first independently built E-Scientia installation and the last in the world.

E-Scientia, Cochin was inaugurated by Dr Moshe Kam, IEEE President 2011 on Wednesday, 16th July 2014, in the august presence of Dr. Poullose Jacob, Pro Vice Chancellor CUSAT and Dr K G Nair, Director, C-SiS.





Antenna & Propagation Society Inauguration & Distinguished Lecture

IEEE Kerala Section Antenna & Propagation Society Chapter (KS.AP03) was approved to Kerala Section and was inaugurated by Dr. Moshe Kam on the 16th of May, 2014. The Inaugural was held at the Seminar hall, Department of Electronics, CUSAT with a Distinguished Lecture on **Architectures and Applications of Decision Fusions** by Dr. Moshe.

AICERA ICMMD 2014

Amal Jyothi College of Engineering, Koovapally

The International Conference on Magnetism, Machines and Drives (iCMMD) was held at Amal Jyothi College of Engineering, Kanjirapally on 24, 25 & 26th July 2014 under the technical sponsorship of IEEE Kerala Section. This event, the fourth in the series, was held under the aegis of AICERA (Annual International Conference on Emerging Research Areas), an initiative of Amal Jyothi. The theme of this conference was centered on Magnetism, Machines and Drives. The focus was on the electromagnetic aspects of static and rotating electrical machinery, transmission elements, bearing systems, electrical dynamics, power delivery and associated drives. The aim of the Conference was to integrate these three essential aspects to gain a complete view of this facet of Power engineering.



Dr. Sreeram Kumar, Vice-Presidency for Projects, King Abdul Aziz University, Jeddah, Saudi Arabia, and Dr. Udaya Kumar, Professor, High Voltage Engineering, Indian Institute of Science, Bangalore delivered Keynote addresses among several other plenary speakers. Over 420 papers were received and after stringent reviews by the IEEE plagiarism check tool and a double-blind review process, involving external and internal reviewers, 132 papers were selected for presentations. 130 papers were presented in 10 tracks, spread over 6 venues. The Conference also featured a product exhibition, involving equipment vendors like Fluke, ABB etc.

News from SB – CEC RAS Activity

The IEEE RAS Student Branch Chapter at College of Engineering, Changanur was formed in 2013 with the intent of introducing students and young professionals to various concepts and practices in the field of Robotics, and also to promote awareness of one of this rapidly growing field of engineering. The society chapter aims in improving the technical knowhow of Robotics in students and to impart in them a skillset which would otherwise be difficult to obtain. As part of its activities, the chapter in consultation with Mr Tushar Mohan, a student at the Singapore University of Technology & Design,

specialized in robotics, CEC conducted a workshop on robotics during the second week of October 2013. This workshop, analogous to a Hackathon, had participants fabricating a complete functioning robot from scratch. The workshop met its motive in introducing robotics to the chapter's student members, along with evangelizing IEEE.



Reported by:

Sabarinath G

Secretary, IEEE Kerala Section

Senior Member: IEEE | IEEE CAS

Asst. Professor, SoE, Dept. of ECE

SJCET, Palai

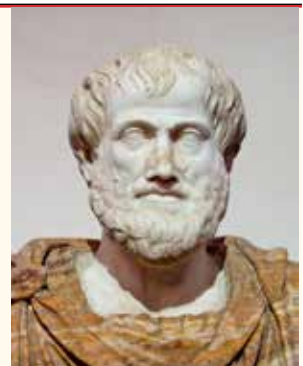
email: sabaripillai@ieee.org | sabaripillai@gmail.com | sabari@sjcetpalai.ac.in



Words of Wisdom

*We give up leisure in order that we may
have leisure, just as we go to war in order that we may have peace.*

- Aristotle



2nd IEEE Region 10 Humanitarian Technology Conference

A Report

The 2nd IEEE Region 10 Humanitarian Technology Conference (IEEE R10 HTC 2014) was successfully conducted by IEEE Madras Section from August 6 – 9, 2014, at the Hilton Hotel, Chennai. The conference was attended by Dr Howard Michel, IEEE President Elect 2015, Dr Toshio Fukuda, IEEE R10 Director, Mr K Ramakrishna, IEEE R10 Director-Elect 2015, DrTakako Hashimoto IEEE R10 WIE Chair, Mr Deepak Mathur, IEEE R10 SIGHT Chair, Prof VS Subrahmanian IEEE R10 HTC 2014 Program Chair and Prof University of Maryland, USA, Prof. Romain Murenzi Program Co-Chair and ED The World Academy of Sciences, Trieste, Italy, Prof. Krithi Ramamritham, Program Co-chair and Prof IIT Bombay and an array of keynote speakers and participants.

The conference focused on technology developments, research opportunities and solutions to humanitarian problems in Energy, Water, Urban Development, Ocean Technology, Healthcare, Agriculture, Education, Communication, Disaster Management and Terrorism. In addition special sessions on IEEE Community Solutions Initiative, Women in Engineering and Student paper, project and poster contest was also held.

The conference was sponsored by IEEE Madras Section, Tata Consultancy Services Ltd., IEEE SIGHT, IEEE R10, IEEE India Council, SWELECT, Sri Eshwar College of Engineering and Sri Shakthi Institute of Engineering and Technology.

The 1st IEEE R10 HTC 2013 was held in Sendai Japan. Dr Tomonori Aoyama, Organizing Chair of that conference attended the IEEE R10 HTC 2014 conference at Chennai.

More details of the conference can be found at

<http://www.ieeer10htc.org/index.php>

<https://www.facebook.com/IEEER10HTC>

Twitter - #r10htc2014





Report by: T.S. Rangarajan

Conference Chair – IEEE R10 HTC 2014

Note: The 1st IEEE R10 HTC 2013 was conducted at Sendai Japan last year.





INDICON 2014

Emerging trends and innovation in Technology

11th-13th December 2014, Yashada, Pune, India



IEEE INDICON 2014 organized by IEEE Pune Section will be held at YASHADA, MDC, Pune, Maharashtra, India from December 11-13, 2014.

INDICON is the most prestigious conference conceptualized by IEEE India Council in the field of Electrical Engineering, Electronics and Communication Engineering and Computer Science and Engineering, in general.

INDICON 2014 is expected to attract delegates from academia and industry, coming from all over the country and abroad. The theme of the conference this year is "Emerging trends and innovation in Technology". The conference will consist of very high quality technical sessions and tutorials.

We invite you to submit original technical papers for presentation at the conference as well as publication in the proceedings and in IEEE Xplore.

Topics within the scope of the conference will include, but are not limited to:

- Big data and Data mining
- Cloud and Ubiquitous Computing
- Emerging trends in Engineering
- High Performance Computing
- Information and network security
- Power and Energy
- Software and Database System

The paper submission deadline is June 25, 2014.

For Call for papers, please visit <http://www.indicon2014.in/CFP.pdf>.

For more details and contact information, please visit <http://www.indicon2014.in>

Rajesh Ingle,
Chair, IEEE Pune Section
General Chair INDICON 2014
ingle.rb@gmail.com





CALL FOR PAPERS – GCWCN2014



1st IEEE Global Conference on Wireless Computing and Networking (GCWCN-2014)

December 22- 24, 2014, SIT, Lonavala, Pune, India

:: Scope

GCWCN2014 is the first global conference which addresses the developments in the field of wireless technology and networking over the globe. The theme of event is **“Revolutionary Green and Secure Networking in Wireless Communication Technology”**. The conference brings together the academia, industry, standardization forums and SDO's working on green, secure and cognitive communication. This conference explores incremental, ambitious and innovative activities, trends and future challenges towards ICT globalization. It includes issues in existing and novel wireless technologies such as cellular, short-range, sensor, future radio access, vehicular communication and embedded ones. Conference also focus on issues in cognitive and self-organizing networks, Internet of Things, Signal processing, network without borders, recent advances in information theory and its application, multimedia applications and services.

:: Topics of Interest (but not limited to)

Track1: Security

Security and privacy
Reliability aspects
Mechanisms for authentication
Secure communication
Encryption algorithms
Sensor secure management
Data integrity and trustworthiness issues
IoT security
Information-theoretic security
Cyber security and policies

Application layer security
End-to-end security and mobility
Wireless network security and privacy
Green and secure MAC
Embedded security

Track2: Cognitive radio networks and Green communication

Cognitive radio networks
Future wireless internet
Green communication
Cloud computing and data center networks
Internet of Things
Interworking of heterogeneous wireless networks
Localization for wireless networks
Optimal energy-aware clustering
Traffic and energy consumption rate
Energy-efficient topology control
Energy optimization in multi-hop communications
Energy supply, lifetime and transmission power
Energy harvesting for autonomous networks

Track3: Wireless Communication

Multiple accesses controls
Ad hoc and sensor networks
Co-operative networks
Network protocols and QoS scheduling
Radio resource and mobility management
Next generation networks
Wireless telemedicine and e-health services
Radio propagation and channel modeling
Source, Channel coding and access techniques
RFID and wireless sensor networks
Positioning and localization protocols
Cross-layer design and optimization

Track4: Media and Signal Processing

Image, Video, and Multimedia signal processing
Virtual reality signal processing
Speech and audio signal processing
Social media networks
Multimedia communication



Sinhgad Institutes



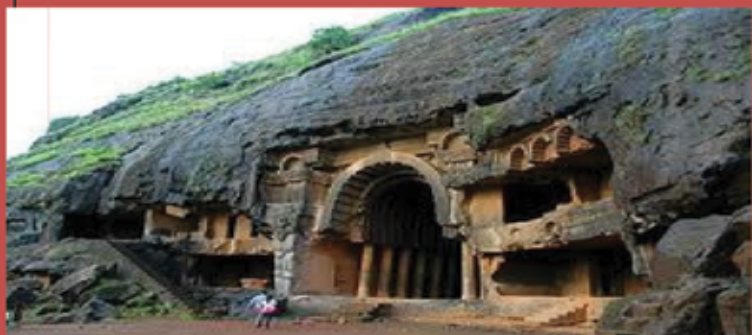
GLOBAL ICT STANDARDIZATION FORUM FOR INDIA



Center for TeleInfrastruktur



Advantia



Technically Cosponsored by IEEE and GISFI

Compressive sensing and compressive sampling
Adaptive signal processing
Signal processing applications and systems
Sensor array & multichannel signal processing
Multi-rate signal processing
Spoken language processing
Video processing, segmentation and analysis

Track5: Communication Networks

Congestion and admission control
Machine-to-Machine (M2M) communication
Multimedia QoS and traffic management
Wireless networking in smart cities
Smart grid networks
Mobile social networks
Inter-working of 2G, 3G and 4G wireless networks
B3G/4G systems, WiMAX, WLAN, WPAN
5G Internetworking
Vehicular networks
Self-organizing networks
MIMO antennas and network architectures
LTE/LTE-A

Track6: Mobile, Wireless Computing and Networking

Mobile and wireless IP
Mobility, location, and handoff management
Data replication and wireless broadcasting, and routing
Service oriented architectures, service portability, Context and location aware applications
Multi-hop and relay networks
Network estimation and processing techniques
E2E protocols over wireless networks
Proxies and middleware for wireless networks

:: Important Dates

Paper submission: September 03, 2014
Acceptance notification: October 02, 2014
Camera ready submission: November 14, 2014
Conference date: December 22-24, 2014

:: Organizing Committee

General Chair:

Dr. M. S. Gaikwad, Principal, SIT, Lonavala.

General Co-Chair:

Prof. D.S. Mantri, HOD, E & TC, SIT, Lonavala.

Local Organizing Chair:

Prof. D. D. Chaudhary, vice principal, SIT, Lonavala.

Technical program Chair:

Dr. D. K. Singh, Dean (R & D), SIT, Lonavala.

Prof. V. V. Deotare, SIT, Lonavala and

Dr. S. N. Merchant, vice chair, IEEE Bombay.

:: Steering Board

Chair: Prof. M. N. Navale, Founder President STES, Pune.

Member: Dr. (Mrs) S. M. Navale, Secretary, STES, Pune.

Member: Dr. Ramjee Prasad, CTIF, Aalborg.

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Member: Hon'ble Ms. Rachana M. Navale, Vice President (Admin) STES, Pune.

Member: A. K. Banerjee Chair, IEEE Bombay.

Member: Prof. Suryanarayana Doolla, Treasurer, IEEE Bombay.

Member: Mr. Ankit Pawar, Chair, IEEE student branch, SIT, Lonavala.

For More Information and Contact:

<http://www.gcwc2014.net>

<http://www.sinhgad.edu/gcwc2014>

Contact E-mail: gcwc2014.sit@gmail.com

Note: The accepted and presented papers will be included in the IEEE Xplore: Digital Library.

Presented papers meeting quality criteria will be sending to Wireless Personal Communication–Springer Journal (TBC)

Submission of Paper: <http://edas.info/18405>

IEEE INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE & COMMUNICATION TECHNOLOGY (CICT-2015) 13-14 Feb, 2015

(Technically sponsored by IEEE UP Section)

ABES Engineering College, Ghaziabad, one of the pioneer institutions in the field of Engineering, Research and Technology is organizing its 1st IEEE- International Conference on Computational Intelligence & Communication technology; CICT-2015 This technical conference aims at providing a platform for industry and academia to discuss various emerging trends and innovations, share research results and new directions in upcoming areas. CICT-2015 will provide a leading edge, scholarly forum for researchers, engineers, and students alike to share their state-of-the art research and developmental work in the broad areas of pervasive computing and communications. The conference will feature a diverse mixture of interactive forums, core technical sessions of high quality cutting-edge research articles; targeted workshops on exciting topics; live demonstrations of pervasive computing in action; insightful keynote speeches; panel discussions from domain experts and posters of emerging ideas

The papers should be submitted through on-line paper submission process (Easy chair submission system). Authors are requested to follow paper submission link on website.

<https://www.easychair.org/conferences/?conf=cict2015>

All accepted & presented papers of the Conference by duly registered authors, will be submitted to IEEE Xplore Digital Library for Publication.

IMPORTANT DATES

- Paper Submission deadline : 31st September, 2014
- Notification of Acceptance : 15th Oct 2014
- Camera ready Paper Submission Deadline : 15th Nov 2014
- Last Date of Registration : 15th Dec 2014

Conference website: <http://cict.abes.ac.in>



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