Digital Life in 2025: Experts predict the Internet will become ‘like electricity’ — less visible, yet more deeply embedded in people’s lives for good and ill. This report is part of an effort by the Pew Research Center’s Internet Project in association with Elon University’s Imagining the Internet Center to look at the future of the Internet, the Web, and other digital activities. This is the first of eight reports based on a canvassing of hundreds of experts about the future of such things as privacy, cybersecurity, the “Internet of things,” and net neutrality. In this case we asked experts to make their own predictions about the state of digital life by the year 2025. We will also explore some of the economic change driven by the spectacular progress that made digital tools faster and cheaper. And we will report on whether Americans feel the explosion of digital information coursing through their lives has helped them be better informed and make better decisions. Download this 61 pages report form http://goo.gl/LGFTuv

The IT Manager’s Indispensable Guide to E-Discovery: Electronic discovery, also known as e-discovery, refers to any process in which electronic data is sought, located, secured and searched with the intent of using it as evidence in a civil or criminal legal case. More often than not, companies are simply not prepared to find electronically stored information (ESI), especially email and the associated attachments, in the face of pending litigation. Plus, tight timelines imposed by the Federal Rules of Civil Procedure (FRCP) have made the process of discovering and collecting relevant information in a fast, defensible and transparent manner critical to legal professionals. FRCP guidelines stipulate that any company with the potential for litigation within the U.S. federal court system must preserve email and produce relevant emails and other ESI when requested for legal discovery purposes. Companies that fail to produce emails and other electronic content in a timely or appropriate manner face the risk of paying millions of dollars in sanctions and fines, not to mention a tarnished reputation and lost revenue. Read this whitepaper at http://goo.gl/klzaC2

Collaboration B.I. (Before Internet): Complex spoken or signed language: It’s what separates people from animals. (Besides fur. And indoor toilets. And fear of vacuum cleaners.) But seriously—and scientifically—it’s a uniquely human characteristic. And in business, of course, we depend on it. Talking face to face is how language began, and it’s arguably still the most effective way to communicate. When it’s not possible, things get complicated. Fortunately, technology—however primitive—has always come to the rescue. Let’s look back at some of the ways our esteemed forebears have bridged geographical divides to keep business moving. Read the article at http://goo.gl/dypTh4

Seven Simple Truths About Desktop and Mobile Video Conferencing: Desktop and mobile video are all the rage right now. Every video vendor claims they have a viable solution, and there is a seemingly endless string of new entrants to the market. For potential users, it’s hard to cut through the noise. I want to highlight the truth about the applications available today and call out the most important desktop and mobile video conferencing features. Read the article at http://goo.gl/wNbj0m

The Software-Defined Data Center Is Key to IT-as-a-Service: The next wave of virtualization will create broader agility and flexibility across the technology stack to allow IT to be delivered as-a-service. ITaaS means better alignment between IT and business goals, and should be a top initiative for all CIOs. However, delivering on the vision of ITaaS requires IT to shed legacy provisioning and management thinking and migrate to a software-defined data center (SDDC). SDDC is the foundation and will be the first incarnation of ITaaS. Download the white paper from http://goo.gl/pgNGkn

The Cloud Handbook: InformationWeek in association with Cisco presents - The Cloud Handbook Cloud computing is transforming IT in ways that no one imagined a few years ago. Considering revolutionary cost savings and operational flexibility that the technology offers, more and more companies are preparing to join the cloud bandwagon. This handbook, brought to you in association with Cisco, covers all the key areas that enterprises need to examine before embarking on a cloud journey. The handbook also features examples of companies that are already deriving business value from the cloud. Download this free Cloud Handbook from http://goo.gl/YJMV6x

Executive’s guide to microservers in the data center: As companies look for more efficient and cost-effective ways to run their data centers, some are turning to microservers to handle certain types of tasks. These small,
inexpensive servers don’t have the compute power to shoulder demanding enterprise IT chores. But they can handle lightweight, well-defined workloads — such as serving content over the internet at scale or running individual compute jobs for big data analysis — more efficiently than heftier all-purpose servers. To help you determine what role, if any, microservers should play in your data center, ZDNet and TechRepublic put together this comprehensive guide. It looks at the benefits of microservers, how companies are putting them to work, and limitations that may block widespread adoption. It also includes a roundup of results from a recent Tech Pro Research survey on how technology decision makers are approaching microservers. Download the guide from http://goo.gl/t1mcDY

**Patch Management Best Practices for IT Professionals**: Patch management is one of the largest concerns of IT professionals. With new vulnerabilities being discovered almost daily, keeping systems up-to-date with patches is often a full-time job, especially in larger environments. In addition, the lag time between when vulnerability is discovered and when a virus or worm appears is now measured in days or weeks rather than months. This eBook outlines best practices IT professionals can follow to ensure their organizations’ systems are always up-to-date. Download the Patch Management Best Practices eBook to learn more. Download the eBook from http://goo.gl/eliZ5r

**Heartbleed Bug Patch Underway, But Was It Really the Problem?**: More clarity about the vulnerability of banking and credit card data and other sensitive information such as website logins and passwords came this week, when a Google researcher and a team from the Finnish security firm Codenomicon separately reported the existence of an Internet security flaw that is being called the Heartbleed Bug. What makes Heartbleed so insidious is the fact that it can allow hackers to snatch data from a server’s memory 64 kilobytes at a time—even if the information is supposedly encrypted—without leaving a trace. While the end user takes comfort in the ability of SSL/TLS encryption to keep his or her data from prying eyes, the “https” in the URL and the closed padlock icon are a cruel trick. Read the full post at http://goo.gl/1g9Nnv

**Heartbleed: Which Passwords You Need to Change**: The Heartbleed Internet-security flaw is very bad, but contrary to many media reports, you don’t have to run out and change all your passwords now. In some cases, it might be better to wait, or not do it at all. First, to be clear, you don’t need to change any passwords or PINs you use to log into a Windows PC, Mac or mobile device. For the most part, personal computers, smartphones and tablets are not directly affected by Heartbleed. Heartbleed affects Web, email and chat servers by undermining the secure connections they make with you. Not all servers are affected, only those that used certain encryption protocols over the past two years. Most servers running Microsoft software, as well as servers that used other encryption protocols, are unaffected. Read the full story at http://goo.gl/lS4ofi

**U.S. Gives Cybersecurity Advice to Critical Infrastructure Operators—But No Rules**: The U.S. government, finally realizing that it has to take action to ensure a minimum level of cybersecurity in networks that manage the nation’s energy, water and financial services, presented the Framework for Improving Critical Infrastructure Security recently in Feb 2014. The document, which was put together by industry and government experts, is a compilation of cybersecurity standards and best practices; it is the result of the year-old Executive Order 13636, under which President Barack Obama directed operators of critical infrastructure to provide guidance for defending their networks. Read the full post at http://goo.gl/XvyKMs

**Security Analytics Handbook by RSA**: Big Data Security Analytics promises to provide tools needed to combat the ever expanding threat spectrum today. This InformationWeek handbook, compiles a series of articles to help familiarize you with core concepts and developments from big data security analytics. We are living in times of perpetual compromise where the adversary is organized and focused. The task at hand now is one of timely detection and remediation rather than prevention, requiring a level of real-time intelligence that has been unavailable thus far. Security analytics leveraging the power of big data promises to give defenders the tools needed to combat the ever expanding threat spectrum. This handbook, brought to you by RSA, compiles a series of articles in this context that will help familiarize you with core concepts, developments and expectations from big data security analytics. Download it from http://goo.gl/3nkzlf

**Glossary: Startup and Venture Capital terms you should know**: The startup world operates on a lot of lingo. This guide will give you a better context to understand the language of startups, venture capitalists, angel investors, and incubators. See it at http://goo.gl/48t2tp

**10 resume mistakes to avoid: There is one goal for your resume**: To show a potential employer why you are the best person for the job. However, there are so many things that can get in the way of what should be a clear message. Here are ten of the most common mistakes made in resumes. Read them at http://goo.gl/1W9yv0
Video resumes: The good, the bad, and the ridiculous: Job hunters are turning to video resumes to stand out from the crowd. We have some tips on how to use a video resume to land a job, and avoid becoming an office joke. Full post at http://goo.gl/Hh8Z0j

The Five Types of Bad Communicators: Everyone in the office has idiosyncrasies. Luckily, UC can help you deal. It’s the Golden Age of Communication. That’s what the experts and their scholarly articles say. Basically, it means that we’re all talking a lot via the bewildering number of ways available to us. Fortunately, unified communications (UC) is simplifying the whole affair by integrating various communication methods and devices. UC lets you, say, retrieve your office voicemail messages via email or cell phone and respond via text or video call. Most importantly, UC solves the challenges brought on by the diversity of communication styles in your workforce. Read the post at http://goo.gl/35b08a

User Generated Education: Education as it should be – passion-based. Teaching Ethics in the Age of Technology: Ethical decision-making should be included as a 21st century skill (overused term but don’t know of an alternative). Some would profess that ethical decision-making has always been a needed skill. But we are living in the most complex era of human history. Information access and abundance, and emerging technologies are advancing, and being developed and disseminated at rates that the human mind often cannot comprehend. Now more than ever ethics should be integrated into young people’s educations. Read the full post at http://goo.gl/ytcQcw

21st Century Skills for a learner: Many have attempted to identify the skills important for a learner today in this era of the 21st century (I know it is an overused phrase). I have an affinity towards the skills identified by Tony Wagner: Critical thinking and problem-solving; Collaboration across networks and leading by influence; Agility and adaptability; Initiative and entrepreneurialism; Effective oral and written communication; Accessing and analyzing information; and Curiosity and imagination. Some other ones that I believe important based on what I hear at conferences, read via blogs and other social networks include: Grit; Resilience; Hope and Optimism; Vision; Self-Regulation; and Empathy and Global Stewardship. Read the full post at http://goo.gl/S8cF58

Gamification Infographic: Gamification [n]: the use of game design elements in non-game contexts. Gamification has tremendous potential in the education space. How can we use it to deliver truly meaningful experiences to students? Let us know what you think in the comments. See the infographics at http://goo.gl/6rOHZe

3D printer raises $1M in 24 hours, proves there is massive demand: The $299 Micro 3D printer has become an instant hit on Kickstarter and is showing the world that a lot of people really do want one of these on their desk. As it turns out, it doesn't matter how useful or necessary you think a basic desktop 3D printer is (or isn't). There is a demand for them, and it's huge. A recent Kickstarter campaign has proven that if you make 3D printers cheap enough, people will snatch them up -- in 11 minutes, to be precise. Full story at http://goo.gl/XfwqsN

Big data techniques and technologies: Wide variety of techniques and technologies has been developed and adapted to aggregate, manipulate, analyze, and visualize big data. These techniques and technologies draw from several fields including statistics, computer science, applied mathematics, and economics. This means that an organization that intends to derive value from big data has to adopt a flexible, multidisciplinary approach. Some techniques and technologies were developed in a world with access to far smaller volumes and variety in data, but have been successfully adapted so that they are applicable to very large sets of more diverse data. Read the full article at http://goo.gl/dEDYxP

Google Earth Engine Brings Big Data to Environmental Activism: Forests have a new ally in big data. Global Forest Watch, an online tool powered by Google Earth Engine, is mapping deforestation by applying big-data processing techniques to massive troves of satellite imagery. The site's dramatic map of forest loss is created using algorithms and the satellites’ visible light and infrared data. And instead of throwing out any cloudy images, composite pictures are stitched together using many days’ worth of data. Users can explore the global map and even zoom in to a resolution of 30 meters. They can also sign up for alerts, which are generated when the system detects signs of illegal logging or slash-and-burn agriculture. The interactive atlas could herald a new kind of environmental activism. Read the full post at http://goo.gl/IXSoHS

Global E-Waste Will Jump 33 Percent in the Next Five Years: All of those cell phones, computers, tablets, toys, and toaster ovens really add up. Not only are consumers gathering more and more electrical and electronic equipment, but we are also tossing much of it in the trash. The piles of electronic waste, or e-waste, is rising rapidly across the globe, according to a new study by the Solving the E-Waste Problem (StEP) Initiative. The United States and China were responsible for nearly half the world’s total in market volume of e-waste in 2012, which includes anything with a battery or electrical cord. Read the post at http://goo.gl/KcXQOG
Google's 10 big bets on the future: At the Computer History Museum in Mountain View, Calif., on Tuesday, the future attracted more attention than the past. Google held its first Project Ara developers' conference, and those in attendance got a glimpse of tomorrow's smartphones. "Tomorrow" in this instance means January 2015. That's when the first Project Ara phone is expected to ship, priced at a mere USD 50. But you'll want to buy additional hardware modules. From Project Ara smartphones to solar-powered drones, these Google projects try to turn science fiction into reality. Look what's coming at [http://goo.gl/CVpOhK](http://goo.gl/CVpOhK)

How to Migrate from Windows XP: April 8, 2014. That's the day when, after more than 13 years, Microsoft officially ends support for Windows XP. Like millions of others around the world, you may be perfectly happy with your XP system, but it's now time to move on to either Windows 7 or Windows 8. Here's how. After April 8, Microsoft will no longer release any patches or updates for XP, even if critical bugs are found. The only exceptions will be for large corporate customers willing to pay $200 per computer for a year's extension of "premier" support for hundreds, or thousands, of machines. Cyberattackers will be able to target vulnerabilities in Windows XP without fear the flaws will be patched, and there won't be anything users can do to protect themselves besides upgrading to a newer operating system. Experts worry there will be a jump in the number of attacks targeting XP users come April, especially after new flaws in XP are inadvertently revealed by related fixes to Windows Vista, 7 and 8. Since you're going to have to migrate anyway, you might as well as move toward a XP-free future now, instead of waiting for attackers to wreak havoc with your digital life. Full story at [http://goo.gl/MyS0ij](http://goo.gl/MyS0ij)

Older Adults and Technology Use: Seniors and internet adoption. America's seniors have historically been late adopters to the world of technology compared to their younger compatriots, but their movement into digital life continues to deepen, according to newly released data from the Pew Research Center. In this 27 pages report, we take advantage of a particularly large survey to conduct a unique exploration not only of technology use between Americans ages 65 or older and the rest of the population, but within the senior population as well. Two different groups of older Americans emerge. The first group (which leans toward younger, more highly educated, or more affluent seniors) has relatively substantial technology assets, and also has a positive view toward the benefits of online platforms. The other (which tends to be older and less affluent, often with significant challenges with health or disability) is largely disconnected from the world of digital tools and services, both physically and psychologically. As the internet plays an increasingly central role in connecting Americans of all ages to news and information, government services, health resources, and opportunities for social support, these divisions are noteworthy—particularly for the many organizations and individual caregivers who serve the older adult population. Among the key findings of this research report in 27 pages available at [http://goo.gl/hE2O8L](http://goo.gl/hE2O8L)

Distinguished Lecture on “How Internet of Things (IoT) Will Transform Everything Creating a Smarter World”: by Dr. San Murugesan, Distinguished Speaker, IEEE Computer Society, Editor-in-Chief, IEEE IT Professional, Director, BRITE Professional Services & Adjunct Professor, University of Western Sydney, Australia on 23rd Dec 2013 at Chennai. [http://goo.gl/4p2bl3](http://goo.gl/4p2bl3)

Presentation on “Securing the Unsecured in Cyber Space”: by Prof. K. Subramanian, Vice Chair, IEEE Computer, Education Society Delhi Section, Chair, Technology Management Council, IEEE Delhi, Former IT Adviser to CAG of India & Former Dy. Director General (NIC), Min of C & IT on 6th Jan 2014 at Chennai. [http://goo.gl/ZeS1n1](http://goo.gl/ZeS1n1)

Presentation on "Vedic Mathematics in Engineering Applications": by Mr. V. J. K. Kishore Sonti, Asst. Professor, Sathyabama University, Chennai. The event was held on 10th Mar 2014 at Chennai. [http://goo.gl/ih0JLL](http://goo.gl/ih0JLL)

Presentation on "Big Data Problems in Social Media Analytics" by Dr. R. Chandramouli (Mouli), Information Networks and Security (iINFINITY) Lab, Dept. of Electrical and Computer Engineering Stevens Institute of Technology, Hoboken, NJ, USA on 19th Mar 2014 at Chennai. [http://goo.gl/wlNR7r](http://goo.gl/wlNR7r)

Presentation on "Cybernetics of De-Schooled Learning": by Dr. T.V. Gopal, Professor, Dept. of Computer Science and Engineering, College of Engineering, Anna University, Chennai on 26th Mar 2014 at Chennai. [http://goo.gl/mJWxG](http://goo.gl/mJWxG)

Presentation on "Trillion Dollar by 2025 - North Star for Indian IT": by Mr. S. R. Ramaswami, Growth with Governance Advisor, Former President & Partner, Polaris Financial Technology, Chennai on 3rd Apr 2014 at Chennai. [http://goo.gl/yIUiWj](http://goo.gl/yIUiWj)

An opportunity seized but not fulfilled: Open Page article by Dr. S. Ramani, Past President of CSI says the potential and promise of the IT and ITES sector need to be appreciated. Read it at [http://goo.gl/mGavBC](http://goo.gl/mGavBC)
An entertaining story, if assumed auto-mentor, will motivate you:

During a robbery in Guangzhou, China, the bank robber shouted to everyone in the bank: "Don't move. The money belongs to the State. Your life belongs to you."

Everyone in the bank laid down quietly. This is called "Mind Changing Concept" Changing the conventional way of thinking.

When a lady lay on the table provocatively, the robber shouted at her: "Please be civilized! This is a robbery and not a rape!"...This is called "Being Professional" Focus only on what you are trained to do!

When the bank robbers returned home, the younger robber (MBA-trained) told the older robber (who has only completed Year 6 in primary school): "Big brother, let's count how much we got." The older robber rebutted and said: "You are very stupid. There is so much money it will take us a long time to count. Tonight, the TV news will tell us how much we robbed from the bank!" This is called "Experience." Nowadays, experience is more important than paper qualifications!

After the robbers had left, the bank manager told the bank supervisor to call the police quickly. But the supervisor said to him: "Wait! Let us take out $10 million from the bank for ourselves and add it to the $70 million that we have previously embezzled from the bank". This is called "Swim with the tide." Converting an unfavorable situation to your advantage!

The supervisor says: “It will be good if there is a robbery every month." This is called "Killing Boredom." Personal Happiness is more important than your job.

The next day, the TV news reported that $100 million was taken from the bank. The robbers counted and counted, but they could only count $20 million. The robbers were very angry and complained: "We risked our lives and only took $20 million. The bank manager took $80 million with a snap of his fingers. It looks like it is better to be educated than to be a thief!" This is called "Knowledge is worth as much as gold!"

The bank manager was smiling and happy because his losses in the share market are now covered by this robbery. This is called "Seizing the opportunity." Daring to take risks!

So who are the real robbers here?

CSI @ 50 – Golden Jubilee :: Forthcoming Events


16-21, May 2014: Short term training programme on “Network Security” at Viswijayothi, Vazhakulam, near Cochin. Organised by Viswijayothi College of Engg & Tech in association with CSI Cochin Chapter. Contact: Ms. Resmi Cherian. Ph: 08281727876 / 09995572876 email: resmic@vjcet.org, website: [http://vjcet.ac.in/Home.aspx](http://vjcet.ac.in/Home.aspx)

17th May 2014: WTISD 2014:Broadband for Sustainable Development at Udaipur. Organised by SIG-WNs- CSI and IEI ULC. Contact: Dr. Dharshk Singh. Email: Singhdharsh@hotmail.com


Indian Healthcare industry to spend $1.08 billion on IT products and services in 2014 -- Gartner.

The engineering services outsourcing currently stands at about $10 billion will further expand with increased adoption of 3D printing -- CEO, Mindtree.

The global 3D printing industry to reach $10.8 billion from the current $2 billion by 2012. -- Wohlers Associates

National Skill Development Corporation has provided skills training to 13,49,742 people in its first three years of operations. It has also created a capacity to train 7.5 crore people over the next 10 years -- S Ramadorai, Chairman, NSDC.

Telcos are natural partners for Facebook’s initiative of internet.org, a global partnership with the goal of making Internet access available to the next 5 billion people – Director, Facebook

India’s e-commerce to go up from $1 billion to $76 billion by 2020. In 2013 alone, online shopping has increased by 88%

The media and entertainment industry grew by around 12% in 2013 -- FICCI-KPMG report.

‘We don’t really see a slowdown in the IT market’. ‘Internet of Things’ is the next big thing to happen -- Ashish Chowdhary, EVP/President, Nokia Solutions and Networks.

MOOCs are surely the way forward for India which faces the shortage of good faculty. They are the great democratiser. Anyone can register and take courses, as there is no application process, and no costs -- Anant Agarwal, President, edX.

Hardware sector is a ‘victim’ industry. It has become far weaker than it was in 1970s, at least in relation to the global industry -- R Chandrashekhar, President, Nasscom.

There are four types of applications that define a connected vehicle - infotainment/media, advanced telematics, vehicle-to-X communications and autonomous driving capabilities -- Forrester research on connected cars.

Indian companies represent 3% of the global IT and BPO outsourcing market.

Intel forecasts that 40 million tablets would be sold worldwide next year.

The topline of many IT companies will grow in the 15-18% range in 2014 -- higher than Nasscom’s 13-15% growth projections -- Analysts.

With a stagnant $32-billion domestic market contribution, the size of the IT-BPO industry would grow to $118 billion in 2013-14 from $108 billion in 2013. Social, mobility, cloud chip in 5-10% of IT firms’ income - - Nasscom.

Indian IT laws ‘ill-suited’ for social media. Reforms could see Net platforms contributing Rs. 2.5 lakh cr to economy by 2015 – GNI Report.

Mobile data use zooms 87% riding the 3G wave. Data usage has gone up from about 26 petabytes (PB) a month in 2012 to 50 petabytes in 2013 -- MBit Index study.

Out sourcing destinations: India is the clear global leader by revenue, while China is the most serious challenger by scale -- a study of nine Asia-Pacific (APAC) countries.

Digital marketing is the new frontier for IT sector – Nasscom.

Indian vendors imported a total of 15.06 million smartphones in the 4th quarter compared to 5.35 million units in the same period of 2012 --IDC.

Worldwide software revenue totaled $407.3 billion in 2013, a 4.8% increase over 2012, driven by trends such as ‘big data’ – Gartner.

Food portals see 150% jump in orders. The business, which stood at Rs. 1,000 crore in 2012, is set to touch Rs. 6,000 crore by 2017.
• As IT changes with SMAC (social, mobility, analytics and cloud services), so should the laws and regulations – EMC
• The software products market in India is expected to cross the $100-billion mark by 2025, from a mere $2.2 billion last year. The industry would then grow at a rapid pace of 58.5% to reach the $100-billion mark. India has attained a critical mass of product firms with over 3,500 firms on the threshold of maturity stage -- CMD, Infotech Enterprises.
• The next breakthrough software application will come from India, which develops more than 10% of the apps – Microsoft.
• India’s IT-BPO sector may lose out to Philippines unless it cuts costs. Around 30% graduates in the Philippines are employable, unlike 10% in India -- Study by Assocham & KPMG.
• With Windows XP support gone, users eye open-source.
• The current market size for cloud services in India at $600 million. This is growing at a compounded annual growth rate of 33% -- Analysts.
• There are about 350 million PCs and about 2.5 billion mobile phones in the world. But the wearables market promises a market that is five times bigger.
• After US, India likes Facebook most; active user mark hits 100 million.
• The Govt.’s policy document targets 600 million broadband users by 2020.
• Data revenue accounted for 7% of telecom operators’ overall revenue in 2012/13, and is expected to go up to 21.7% in 2017/18 -- PhillipCapital India.
• The anti-fraud market is estimated to be $5 billion -- IDC.
• Nasscom to focus on IT engineering. Proposes to increase it from the current $10 billion to $30 billion by 2020.
• 50% of Japan’s IT offshoring work goes to China while only 13% comes to India. Now, IT vendors expect better days in Japan – Survey.
• If we do well in India, we will do well globally -- HTC’s CFO.
• India was Asia’s No. 1 phishing target in 2013, resulting in an estimated loss of more than $225 million – Study by RSA.
• Currently, the value of the global product development service (PDS) market is $13.2 billion and expected to reach $16 billion in two years.
• Online fashion nearly doubled in value from $278 million in 2012 to $559 million in 2013.
• Average broadband speed in India has increased by 31% to 1.5 Mbps but is still the lowest in the Asia-Pacific region. South Korea (highest with 21.9 Mbps), Hong Kong (12.2 Mbps), Taiwan (8.3 Mbps), Singapore (7.9 Mbps), Thailand (4.8 Mbps) and China (3.4 Mbps).

ICT News: Govt, Policy, Telecom, Compliance

• DOT panel wants penalties for violation by telcos as per gravity of the offence with a fine of Rs. 1 lakh for a warning, Rs. 1 crore for a minor breach, Rs. 5 crore for moderate, Rs. 20 crore for major and Rs. 50 crore for severe offences.
• Mobile phone production sees drastic decline due to Govt. regulations and taxation rules.
• BSNL has the largest fixed-line infrastructure in the country, with a network of over 600,000 route kilometres of optical fibre cable. It’s optical fibre network may be hived off into a new unit.
• Chinese state firms ‘not blocking’ Indian IT companies – Vice-Minister for Industry and Information Technology.
• India ready to join the 4G club; voice-over-LTE is Achilles Heel.
• By 2017, India to have 67 million LTE (4G) subscribers -- Broadcom.
• Competition panel clears Lenovo’s acquisition of IBM server business.
• M-Pesa, an alternative to credit/debit card – Vodafone.
• Walden’s semiconductor fund plan hits a roadblock, with the Planning Commission yet to approve the project.
• India’s broadband penetration is only 2%, while mobile is a vast 72% ( with 893 million subscribers) and rising.
• Telecom towers must be powered by renewable tech such as solar energy, wind energy, biomass energy, fuel cells, hybrid power systems and battery technologies. There are about 5.85 lakh telecom towers in the country -- DoT panel.
• New labeling norm by BIS to impact supply of IT products.
• Parties promise to spend more on technology. IT companies can expect higher revenues from e-governance projects in the next five years.
• BSNL seeks Government permission to buy satellite bandwidth directly from foreign players as the ISRO’s.
• Satyam scam: CA Institute finally brings its erring members to book.
- DoT decides to maintain status quo on security clearance.
- Nokia’s TN plant kept out of deal with Microsoft due to legal issues.
- BSNL in talks with Reliance Jio for sharing tower infrastructure which has 61000 towers.
- NTT DoCoMo to exit Tata Tele. Entitled to get at least Rs. 7,250 crore for the entire stake, which is 50% of its total acquisition price.
- In India, there are as many as 13 players in the mobile services segment, which is the largest number of telecom companies in a country.

ICT News: IT Manpower, Staffing & Top Moves

- IT companies planning to hire people from the IIIT-Hyderabad will have to pay a fee of 8% (of the annual package a candidate gets) will get a chance to pick the best.
- A non-engineering science graduate can aspire for a monthly stipend of Rs. 11,500 during the first year of service in Wipro and an MS degree at the end of the fourth year under the company’s ‘earn while you learn’ programme.
- Nandan Nilekani, the former head of UIDAI to contest in the Lok Sabha elections 2014 from Bangalore South constituency.
- Vodafone to offer 9% average salary hike this year.
- Nasdaq-listed Syntel has about 80% of its global workforce of 23,652 (as of Dec 2013) employed across its 12 development centres in India.
- Nokia hints at job cuts in Chennai unit.
- Telecom Sector Skill Council (TSSC) in partnership with World Trade Center Bangalore, Cisco, ITI, and UTL, organized the skills conclave to promote skills development for the telecom sector. Plans to training to 80,000 youth across India over the next 18 months.
- R Chandrasekaran, Executive Vice-Chairman of Cognizant India, has taken over as Chairman of software industry body Nasscom.
- Nokia India has offered a voluntary retirement scheme (VRS) to its employees in the manufacturing plant at Sriperumbudur.
- TCS will recruit 55,000 personnel in 2014-15 as Asia’s largest IT firm expects stable demand.
- Rising attrition: IT majors dole out more to retain talent. Infy to give 7% hike. Wipro staff to get 8% increase. 10% hike from TCS.
- Infosys reported the highest employee attrition level. Of the 18.7% attrition level at Infosys, 17.5% was voluntary.
- Microsoft completes Nokia acquisition and welcomed into its fold 25,000 Nokia employees globally but left out the 6,600 at the Nokia’s factory in Sriperumbudur.

ICT News: Company News: Tie-ups, Joint Ventures, New Initiatives

- Karbonn mobiles is developing a smartphone that can accommodate both Android and Windows operating systems.
- LG India bets big on mobile, flat panel TVs to drive growth. Plans to invest Rs. 800 crore this year on R&D, production and marketing.
- At $19 billion, Facebook valued each of WhatsApp’s current 450 million users at roughly $400.
- Mobile video ad firm Vdopia eyes overseas expansion. Almost 7 out of 10 Internet users in India watch online videos.
- Australian National University has even created the first ever Hindi MOOC, a 10-week course, called ‘Engaging India’ which will start on April 29.
- Veeble Softtech, develops a new app – LocoMapia (LM) – a real time location sharing mobile app that works even without GPS.
- TNQ Books introduces browser-based proofing technology replacing the traditional PDF-based proofing.
- India Post which has 1,39,086 post offices in its network is open to e-commerce prospects.
- Mobiado, luxury mobile brand, set to enter India with handsets priced between Rs. 2.6 lakh and Rs. 20 lakh.
- IIT Bombay students working on a data analysis app for AAP.
- Microsoft woos small enterprises with Azure cloud platform. Announces its hardware trade-in scheme.
- Airtel’s Rs. 200-cr venture capital fund finds no takers.
- SAP Labs India opens its projects to employees as crowdsourcing model across its R&D centres who can work on them depending on their level of interests.
- Cognizant has come out with a new approach called ‘code halos’ that it believes will open up more multi-million dollar business opportunities.
- IBM to manage Airtel’s infrastructure and application services in a deal valued at about $700 million.
- Nokia unveils its first dual-SIM Lumia phone.
- Google with its new maps technology to help small businesses set up virtual presence.
- Tech Mahindra working on driverless cars and drones.
- A new low-power system-on-a-chip (SoC), developed by a Hyderabad-based start-up is set to power ‘wearables’
- Oracle has pipped IBM to become the second largest player in India’s software market in which Microsoft tops – Gartner.
- TCS plans record Rs. 4,000-cr capex this fiscal, its highest till date.
- CORA -- Configure Once and Run Anywhere, a new design from Polaris will not only help banks provide more services from a single window, but also facilitate the customers to enjoy similar banking services on the web and mobile using a single user identity and password.
- Infosys, Orange offer TV apps with customised content.
- Flipkart offers same-day delivery service in 10 cities.

Books: Brief reviews of books useful to students and professionals are included in this column. The publishers -- CRC Press, Springer, Pearson Education, Wiley India Pvt. Ltd., have come forward to present a copy of the books reviews for adding in to the CSI Library at the CSI Education Directorate at Chennai.

Green Computing: Tools and Techniques for Saving Energy, Money, and Resources: Explaining how going green can pay for itself, this book, ties the green agenda in IT to the broader corporate agenda in risk management, brand management, and reputation management. Written by a leading author in the IT field, this authoritative reference provides easy access to quotable budget justifications that readers can use to place IT stakeholders on the same page for this new agenda that can save valuable resources and the planet. Bringing together everything IT professionals need to know about green computing, the book embodies a new philosophy on how to deploy IT devices, software, and services in a way that makes people more effective with fewer resources. It presents helpful tips on how to maximize energy savings as well as how to present information gradually to allow peers and stakeholders to absorb it. It covers various types of hardware and software, including the changes currently happening, underlying trends, products currently on the market, and what to expect—or, in some cases, what organizations should ask for—from suppliers in the future. On the hardware side, the book considers tablet computers—examining the iPad and Android-based tablets. On the software side, it examines the general trend toward cloud computing. It provides important examples of this rapidly emerging trend as well as guidance on how to use the cloud to make software available and to store large amounts of data. Demonstrating the savings and increased business resiliency that can result from green computing, this book offers C-suite executives, senior IT management, project managers, suppliers, and market analysts with the tools required to understand why you need to act, how to act, what to buy, when to do it, and who should act. The salient features include: Explaining why going green is a necessity for every IT department, and why the green agenda will drive IT for years and decades to come; Demonstrating not only savings but increased business resiliency from green computing; Describing how to use the cloud to make software available and store data; Embodying the green philosophy on how to deploy IT devices, software, and services in a way that makes people more effective with less use of resources; Showing the readers how to make the case for green computing to a wide range of internal and even external audiences. Author: Bud E. Smith. Published by: Auerbach Publications and Distributed by CRC Press (www.crcpress.com). Pages: 262 & 61 illus. Price: USD 69.95/= . A copy of the book is being added in the CSI Library at CSI ED, Chennai.

Big Data and Business Analytics: With the growing barrage of "big data," it becomes vitally important for organizations to make sense of this data and information in a timely and effective way. That’s where analytics come into play. Research shows that organizations that use business analytics to guide their decision making are more productive and experience higher returns on equity. Big Data and Business Analytics helps you quickly grasp the trends and techniques of big data and business analytics to make your organization more competitive. Packed with case studies, this book assembles insights from some of the leading experts and organizations worldwide. Spanning industry, government, not-for-profit organizations, and academia, they share valuable perspectives on big data domains such as cyber security, marketing, emergency management, healthcare, finance, and transportation. By reading this book, one can understand the trends, potential, and challenges associated with big data and business analytics; Get an overview of machine learning, advanced statistical techniques, and other predictive analytics that can help solve big data issues; and Learn from VPs of Big Data/Insights & Analytics via case studies of Fortune 100 companies, government agencies, universities, and not-for-profits. Big data problems are still complex. This book shows you how to go from being data-rich to insight-rich, improving your decision making and creating competitive advantage. Author: Jay Liebowitz. Published by: Auerbach Publications and Distributed by CRC Press (www.crcpress.com). Pages: 304 & 46 illus. Price: USD 69.95/= . A copy of the book is being added in the CSI Library at CSI ED, Chennai.
Ethical and Social Issues in the Information Age: This book, a part of the series, Texts in Computer Science, for undergraduates, provides a wide-ranging survey of the impact of new technologies on ethical and social issues. This enhanced new edition, has new chapters on social networks, mobile telecommunications and virtualization technology. The rapid pace of change in computing demands a continuous review of our defensive strategies, and a strong ethical framework in our computer science education and this book examines the ethical, social, and policy challenges stemming from the convergence of computing and telecommunication, and the proliferation of mobile information-enabling devices. This accessible and engaging text surveys thought-provoking questions about the impact of these new technologies. This book, establishes a philosophical framework and analytical tools for discussing moral theories and problems in ethical relativism; Offers pertinent discussions on privacy, surveillance, employee monitoring, biometrics, civil liberties, harassment, the digital divide, and discrimination; Examines the new ethical, cultural and economic realities of computer social network ecosystems; To review issues of property rights, responsibility and accountability relating to information technology and software; Discusses how virtualization technology informs our ethical behavior; Introduces the new frontiers of ethics: virtual reality, artificial intelligence, and the Internet. Surveys the social, moral and ethical value systems in mobile telecommunications; Explores the evolution of electronic crime, network security, and computer forensics; and Provides exercises, objectives, and issues for discussion with every chapter. This comprehensive textbook incorporates the latest requirements for computer science curricula. Both students and practitioners will find the book an invaluable source of insight into computer ethics and law, network security, and computer crime investigation. Author: Kizza, Joseph Migga. Published by: Springer Press (www.springer.com) Pages: 372+ XVIII, 22 illus. Price: EURO 35.69/= A copy of the book is being added in the CSI Library at CSI ED, Chennai.

Giants of Computing: A Compendium of Select, Pivotal Pioneers. This book provides an overview of a selection of individuals who have made important contributions to the field of computing field; presents the key contributions and brief biographical information on figures from a broad range of sub-disciplines and historical periods; and highlights the richness of the field of computing, and the wealth of contributions made by historical and contemporary figures. This accessible compendium presents an insight into the great minds responsible for the technology which has transformed our lives. Each pioneer is introduced with a brief biography, followed by a concise account of their key contributions to their discipline. The selection covers a broad spread of historical and contemporary figures from theoreticians to entrepreneurs, highlighting the richness of the field of computing. This book, Describes the lives and machines built by Hermann Hollerith, Vannevar Bush, Howard Aiken, John Atanasoff, Tommy Flowers, John Mauchly, and Konrad Zuse; Examines the contributions made by Claude Shannon, John Von Neumann, Alan Turing, and Sir Frederick Williams; Reviews such pioneers of commercial computing as John Backus, Fred Brooks, Gordon Moore, William Shockley, Vint Cerf, Don Estridge, Gary Kildall, and Tim Berners-Lee; Surveys pivotal software engineers, including Robert Floyd, C.A.R Hoare, Dines Björner, Edger Dijkstra, Tom DeMarco, Michael Fagan, Watt Humphries, Ivor Jacobson, David Parnas, and Ed Yourdan; Discusses important characters in theoretical computing, such as James Gosling, Grace Murray Hopper, Kenneth Iverson, Donald Knuth, Dennis Ritchie, Ken Thompson, Dana Scott, Christopher Strachey, Bjarne Stroustrup, and Niklaus Wirth; Includes significant contributors to the field of artificial intelligence, including John McCarthy, Marvin Minsky, John Searle, and Joseph Weizenbaum; and Presents a selection of computer entrepreneurs, including Larry Ellison, Bill Gates, Steve Jobs, Ken Olsen, and Thomas Watson Sr. and Jr. This concise and easy-to-read reference will be of interest to anyone curious about the inspiring men and women who have shaped the field of computer science. Author: O’Regan, Gerard. Published by: Springer Press (www.springer.com) Pages: 306+XXI, 113 illus. Price: EURO 32.12/= A copy of the book is being added in the CSI Library at CSI ED, Chennai.

LAN Switching and Wireless: CCNA Exploration Companion Guide: This is an official supplemental textbook for this CCNA Exploration course from the Cisco Networking Academy. This revised edition matches with the new curriculum with new examples and explanations and includes original material developed by the author and aligns with the CCNA Exploration curriculum. It augments student understanding of course material and incorporates recently improved features to aid instructors and enhance student comprehension. Chapters align with course modules and chapter objectives are stated as questions to encourage students to think about and find answers as they read chapters. End-of-chapter Check Your Understanding questions and Summaries align with chapter objectives to emphasize key topics, while key terms are listed in each chapter opener in the order of occurrence to alert students to upcoming vocabulary words. Other key features include "How To" quick references for step-by-step tasks real-world examples and all-new illustrations concise explanations and style for improved readability and packet tracer activities throughout. The chapters of this text include: Switched LAN Architecture; Basic Switch Concepts and Configuration; VLANs; VTP - VLAN Tunneling Protocol; STP – Spanning Tree Protocol; Inter-VLAN Routing; and Basic Wireless Concepts and Configuration. The Appendix has Check Your Understanding and Challenge Questions with Answer Key. Author: Wayne Lewis. Published by: Pearson Education (www.pearsoned.co.in). Pages: 528. Price: INR 750/= A copy of this book is being added in the CSI Library at CSI ED, Chennai.

Microsoft’s cloud services with the Office applications to share and edit documents. The book also offers in-depth coverage of Office's new features including Word’s new reviewing and layout tools, Excel's new quick analysis tool, PowerPoint’s improved collaboration tools, and Outlook’s better handling of email and schedule. Towards the end, in an exclusive chapter “Combining Office Data” Author: Steve Schwartz. Published by: Pearson Education (www.pearsoned.co.in). Pages: 464. Price: INR 599/= A copy of the book is being added in the CSI Library at CSI ED, Chennai.

**Code Halos: How the Digital Lives of People, Things and Organizations are Changing the Rules of Business:** All of the information flowing between customers’ computers, iPads, iPhones, gaming consoles and other devices creates an invisible blanket of energy. Every click, swipe, like and comment adds to this invisible energy, a Code Halo. The information gathered in this Code Halo is becoming vital to future business success. Netflix beating Blockbuster and Apple beating Kodak are not isolated or random events. Instead, they are canaries in the coalmine. Code Halo provides a seasoned and reasoned view of the huge potential of the next wave of digitization that will power successful business. The book aims to educate front-line business and technology executives on ongoing changes and ways they can re-calibrate their organizations for the future. This book, presented in two parts, in part one, examines the explosion of digital information that now surrounds us, describes the profound impact this is having on individuals, corporations and societies and in part two, outlines a business model that helps business and technology leaders understand the impact Code Halos have in competing and winning in fast digitizing global markets. This is more than just a Big Data story and is all about the next era of business. This book is a must read, survival guide for all IT professionals who want to play a role by aligning with business and want to become business game changers and ensure traditional businesses craft their success in a time of market shifts.

**Authors:** Malcolm Frank, Paul Roehrig, Ben Pring. Published by: Wiley India Pvt Ltd (www.wileyindia.com)


**The catalyst:** This is a collection of articles written by Yasas V Abeywickrama, currently the Secretary of Computer Society of Sri Lanka (CSSL) and Chairman, International Young ICT Group. The articles included in this book were appeared over a period in the newspaper “The Island” and broadly covers ten areas such as Entrepreneurship, Creativity and Innovation, Knowledge Society, Information and Communications Technology (ICT), Business Process Outsourcing (BPO), Careers, Customer Service, Education, Personality, Development Skills (Soft Skills) and General interest items. The author has presented the matter in a simple, lucid manner and thus making the reading easy. The author’s work exposure to various international destinations is visible in his writings though Sri Lankan economy is dealt in detail. This compilation is like an encyclopedia and one can read and update himself by picking any item of his interest without sequential reading. Published in Sri Lanka by Darshana Publishers and prices at LKR 520/= and USD 10/= A copy of the book is being added in the CSI Library at CSI ED, Chennai.

**InfoQuiz–2014-Apr-May (EIGHT Prizes to of INR. 250/= each to Win)**

1. Whose mission is to be the company where “customers can find anything they might want to buy”.
2. ----- is the codename for an initiative by Google that aims to develop a free, open hardware platform for creating highly modular smartphones.
3. Whatsapp was acquired by Facebook at ----- times its turnover making the deal the biggest since Time Warner Inc’s merger with AOL.
4. What is the current tagline of the company whose earlier tagline was “Invent”
5. Which flavour of Linux is set to become an alternative platform to Android for mobiles.

Email your answers by 10th Jun 2014 to csi.infoquiz@gmail.com with subject “infoquiz-2014-Apr-May”. Please provide your name, designation, company/institution, full postal address (to send the prize amount by cheque) and contact phone nos. after the answers. There are EIGHT prizes of INR. 250/= each to win. While four prizes of INR. 250/= are sponsored by Cognitive Platform Solutions (CPS) Pvt Ltd (http://cognitiveplatformsolutions.com), a wholly owned subsidiary of SRA Systems which focuses on software products and solutions, the remaining four prizes of INR 250/= are sponsored by Orbit Innovations Private Limited (www.orbitinnovations.com). Answers along with the winners’ info will be published in the next issue.

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