



## CSI eNewsletter

Vol. 5 Issue 2 :: Jun, 2014

[csi-enl-2014-jun.pdf](#)

<http://www.csi-india.org/web/csi/enewsletter>

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**What will life be like after Windows XP:** Microsoft has been supporting Windows® XP for over a decade but will stop doing so after April 8, 2014. Users will no longer receive security updates, nonsecurity hotfixes, free or paid assisted support options for Windows XP, and online technical content will no longer be updated. The looming end-of-support date means that corporate systems that still run Windows XP may face serious consequences. This paper at <http://goo.gl/EcQn2C> discusses the technology threats, potential liabilities and compliance issues, and increased user computing costs enterprises may face if they continue to use the operating system (OS).

**Bill Gates trustworthy computing memo:** Informed users know that Windows XP was developed in very different circumstances— the famous Bill Gates trustworthy computing memo was sent after Windows XP had been developed and released to the public. Read the memo at <http://goo.gl/pZiKh0>

**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 kabloobie. 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.

**Intel® Roadmap Directions 2014 - A Resource Guide for CIOs and IT Professionals:** Intel's constant endeavour to deliver the best for your business continues in the New Year with new technologies, platforms and product launches. This edition of Intel® Roadmap Directions 2014 will give you a comprehensive insight into boosting your business with cutting-edge technologies and products from Intel. Access this volume at <http://goo.gl/QhkIVD>

**YouthSpark Challenge for Change winners promote STEM and Storytelling :** Recently, Microsoft announced the 2014 YouthSpark Challenge for Change winners, a distinctive group with members who hail from around the globe and who share two things in common: they are already affecting change in their communities, and they have supersized ambitions to do more. Microsoft's YouthSpark Challenge for Change is part of the company's YouthSpark initiative, a global effort to create opportunities for 300 million youth by 2015. We asked students ages 18-25 for their ideas to spark change and ignite social good in their communities or around the world, and received inspirational entries from participants in more than 50 countries. The winners were chosen by public vote and will receive a volunteer travel experience in the Amazon to learn about social change, \$2,500 cash to kick-start their projects and a Microsoft technology bundle including Windows Phone 8, Xbox One and Surface 2 with Office 365 University. Know more about the winners and their initiatives at <http://goo.gl/HIKEpV>

**Is 3-D Printing Buildings As Good For The Environment As You Want It To Be?:** Saving so much on transportation and the ability to use cleaner materials sounds like it should make it a no-brainer, but is it so simple? In the world of manufacturing, many have touted industrial 3-D printing as an inherently green technology. Deeper studies have however questioned and debunked a lot of those claims. Ecological fails--toxicity, exorbitant energy use, and wasteful use of materials--have been found, counterintuitively, to outweigh some of the oft-touted wins like reduced transportation impacts, recyclability, and biodegradability. With compelling applications of 3-D printing bubbling up to the architectural scale, should the environmental alarm bells be going off like they are in the world of manufacturing? Read the full post at <http://goo.gl/vBO5tB>

**15 crazy jobs that will exist in the future:** While many jobs will become redundant as technology evolves, the change will also make way for new career opportunities. To explore how the current education and landscape may evolve, Canadian Scholarship Trust Plan partnered with futurists to imagine a job fair of the future by examining social, technological, economic, and environmental changes occurring today. The exploration led to a list of careers that will be the most important in 2030. While professions will still be around, such as teacher and hotelier, the list also contained 14 jobs that do not exist today. Look at the 15 crazy jobs that may become commonplace in 15 years from now at <http://goo.gl/4ICAUR>

**10 commandments of disaster recovery and business continuity planning:** As requirements for avoiding downtime become increasingly stringent, administrators need tools and platforms that can help them plan, design, and implement disaster recovery strategies that can meet those needs. Know these commandments at <http://goo.gl/cScOaE>

**The ugly side of Indian IT companies:** In a research report on Indian IT sector, Ambit Capital says that many big Indian companies such as Infosys and Tech Mahindra underperform on accounting and corporate governance standards. The report titled 'The underbelly of Indian IT', the financial company has categorised such companies in three categories calling them - the ugly, the bad and the not so good based on their corporate governance. Take a look at eight such well-known companies covered in the report at <http://goo.gl/laLrW5>

**Google's unbelievable projects that will change the world:** Google has already changed the way we live in many ways thanks to its search engine and its mobile operating system. But the company is taking new steps to change the future with its projects that look right out of a science fiction novel. Read more about nine of these projects at <http://goo.gl/bAvdvC>

**The 8 People You'll Meet in Social Media Marketing:** When it comes to promoting your products and your company, there is no better soapbox than social media networks. The marketing channel carries more weight than ever. According to SmallBizTrends, more than 85 percent of marketers view social media as an integral part of their digital marketing mix. Knowing how important social media is to each business, it is vital to recognize the major players in the social arena – the unique set of cast and characters you will meet on your social media marketing journey. Full story at <http://goo.gl/5NQjFO>

**10 Best Practices for Sensitive Data Text Messaging:** Text Messaging Best PracticesText Messaging 10 Best Practices – As more data is moved from one mobile device user to another more sensitive and confidential information is exposed to the potential of data leakage. Janco Associates has found that the 10 best practices that help to minimize risk and meet mandated compliance requirements. Read them at <http://goo.gl/F6WlrX>

**Silicon Valley's next invention may change lives of the ordinary:** In the shadow of Internet monoliths such as Facebook, Google and Twitter, it's easy to forget that Silicon Valley got its start from hard-scrabble tinkerers building radios, microchips and other devices. Now, a proliferation of high-tech but affordable manufacturing tools and new sources of funding are empowering a generation of handy entrepreneurs and laying the foundation for a hardware renaissance. Inventors are working on projects as varied as drones, improved artificial limbs, smart jewellery and handheld devices for detecting gluten in food. Read the full post at <http://goo.gl/g47XVj>

**Dogs, Technology and the Future of Disaster Response:** Imagine a team of humans, dogs, robots and drones swooping onto the scene in the aftermath of a disaster and working together to find and rescue anyone trapped in collapsed buildings. That's the goal of a team of researchers from around the United States working on what they call the Smart Emergency Response System (SERS). Full story at <http://goo.gl/ntlq9O>

**Top 10 best practices for effective risk and reputational management:** Best Practices – Reputational risk is the exposure that your company will lose potential or existing business because its trustworthiness has been called into question. A recent study placed economic values on their corporate brand or reputation ranging from less than US\$1 million to more than US\$10 billion, with the average coming in at US\$1.56 billion. Most major enterprises assign high value to corporate reputation and its protection that their annual reports contain special sections dealing with this topic. With today's widespread use of social media and other sources of instant news and communication, a company's reputation has never been more vulnerable. Janco has found the 10 best

practices in organizations that were most confident in their ability to prevent and mitigate IT-related reputational risk. Read them at <http://goo.gl/kRNijn>

**Gentle Introduction of Hadoop and Big Data:** This 72 pages Hadoop book was written with following goals and principles: Make Hadoop accessible to a wider audience -- not just the highly technical crowd; There are a few unique chapters that you won't find in other Hadoop books, for example: Hadoop use cases; Hadoop distributions rundown; BI Tools feature matrix. Download the Full Book from <https://bitly.com/72Hadoop>

**Video: An IT Manager's Nightmare: Is Your Company prepared For The Next Vicious DDoS Attack?:** DDoS attacks are on the rise and companies, from startups to Fortune 500, have to worry about their website disappearing from public view causing lost revenue and wreaking havoc on brand integrity. In this quick, 15-minute webinar, Dyn's Director of Architecture and subject matter expert, Andrew Sullivan, gives an overview of DDoS attacks and provides three important tips on how you can plan ahead before your company gets hit. Prevent your company from becoming another business statistic today! Watch this video at <http://bit.ly/1pYbr7E>

**2014 Cloud Guide: Insights For a Great Migration:** The cloud space is noisy—full of opinions, statistics and data. There's plenty of information out there—but knowing what and who to trust can be a challenge. Here's a quick look at important cloud computing trends and a short list of trusted resources that will point you in the right direction. You'll find answers to these questions and more: Why are so many businesses moving to the cloud?; What's the return on investment for adopting cloud computing?; What applications should you move to the cloud?; What type of cloud makes the most sense for your business—private, public or hybrid?; How secure is the cloud?; and What should you look for in a cloud provider? To read visit <http://bit.ly/1p2iRHr>

**Where is the ROI for UC?:** What's the business case for unified communications? The majority of companies (82%) that implement a UC solution earn a positive ROI. Yet, it can be challenging to get key decision makers on board. To build a business case, follow these steps: Determine how your organization will evaluate hard- and soft-dollar savings opportunities; Compare how UC collaboration tools can deliver savings in audio conferencing, video and web conferencing, presence management and carrier costs; and Learn how an advanced solution like Communications Enabled Business Processes (CEBP) can help overhaul inefficient business processes by reducing product development times, increasing the volume of transactions, accelerating approval processes and building enhanced customer loyalty. Identifying these opportunities for savings will help you demonstrate the value of UC to decision makers. Read the whitepaper for more ideas on how to get your organization on board. Download it from <http://bit.ly/1p2iRHr>

**Are You Prepared for a Software Audit?:** A software audit can be either an internal process, executed by an in-house team or consultants, or it can be done externally, by the vendor. If done internally, the results are used by the organization to check what software is installed across the network, how the software is being used and how this usage compares with the entitlements owned by the organization. If you haven't already been audited—get ready; it's not a case of if, but when. Pl. visit <http://bit.ly/1hUJZaA>

**Top Ten Considerations when Evaluating Unified Communications Solutions:** Unified communications (UC) is an increasingly important investment for organizations looking to improve productivity and responsiveness while reducing their IT costs. The convergence of voice, video, and data communications around a shared IP-based infrastructure - allowing users to easily make a call, send a message, or join an audio or video conference - is bringing benefits to businesses of every size, industry, and geography. But how should you select an enterprise-class UC solution? UC is a rapidly evolving area, making it harder to predict future requirements. A narrow decision based on a single application - say, instant messaging (IM) - may limit your choices later when it comes to supporting smartphones, tablets, video, or social networking. Likewise, a UC deployment that does not adequately consider the implications on IT infrastructure - such as security, directories, media handling, application hosting, networking, and so on - could become problematic as the solution evolves beyond its original scope. The key is to build in sufficient flexibility to accommodate new developments as your needs evolve, while extending the value of your existing IT investments, establishing immediate value, and promoting user adoption. This document at <http://bit.ly/1r2kjzm> helps you navigate this path, by suggesting ten areas that you should consider when evaluating an enterprise-class unified communications solution.

**Monitoring Mobile Employee Productivity:** Many companies today are allowing employees to work remotely. A full third of companies allow some employees to work from home, with 10% of Americans telecommuting at least once a week. With technologies like Cloud-based applications, video conferencing, VoIP calling and others in play, remote employees are fully enabled to get their job done, no matter where they are. But with those benefits, there also come challenges Download the whitepaper from <http://is.gd/jlOnn>

**16 Top Big Data Analytics Platforms:** Data analysis is a do-or-die requirement for today's businesses. This post at <http://ubm.io/1qUAHM6> analyzes notable vendor choices, from Hadoop upstarts to traditional database players.

**16 NoSQL, NewSQL Databases To Watch:** Traditional relational databases weren't invented with mobile, social, and big data types -- or extreme scale -- in mind. Get expert context on 16 next-era NoSQL and NewSQL choices from <http://bit.ly/1qk3FHD>

**Critical thinking calls for the ability to:**

- Recognize problems, to find workable means for meeting those problems
- Understand the importance of prioritization and order of precedence in problem solving
- Gather and marshal pertinent (relevant) information
- Recognize unstated assumptions and values
- Comprehend and use language with accuracy, clarity, and discernment
- Interpret data, to appraise evidence and evaluate arguments
- Recognize the existence (or non-existence) of logical relationships between propositions
- Draw warranted conclusions and generalizations
- Put to test the conclusions and generalizations at which one arrives
- Reconstruct one's patterns of beliefs on the basis of wider experience
- Render accurate judgments about specific things and qualities in everyday life

In sum: "A persistent effort to examine any belief or supposed form of knowledge in the light of the evidence that supports or refutes it and the further conclusions to which it tends.

**CSI @ 50 – Golden Jubilee :: Forthcoming Events**

**26-27 Jun 2014: Open source hands on workshop on MOOL (Minimalistic Object Oriented Linux)** at IIT Madras Chennai in association with CDAC and IITM. For registration contact: [csiprograms@csi-india.org](mailto:csiprograms@csi-india.org)

**4-5 July 2014: ICIS-2014: The International Conference on Information Science 2014** at Le-Meridian Cochin, Kerala. Organized by the Department of Computer Science & Engineering, College of Engineering, Cherthala in collaboration with the Computer Society of India. (CSI) Division III, IV & V and Cochin Chapter and the event is sponsored by Technical Education Quality Improvement Programme (TEQIP II). Contact : Ms. Sony P. Ph: +91-9895999790, email: [iciscec@gmail.com](mailto:iciscec@gmail.com) Website: [www.iciscec.in](http://www.iciscec.in)

**8 – 9 Aug 2014 ICICSE: II International Conference on Innovations in Computer Science and Engineering** at Hyderabad. Organized by Guru Nanak Institutions, Ibrahimpatnam, Hyderabad in association with CSI Div IV. Contact: [hssaini@gmail.com](mailto:hssaini@gmail.com) / [drddsarma@gmail.com](mailto:drddsarma@gmail.com)

**22-24 Aug 2014: BiDA2014: National Workshop on Big Data Analytics** at Hyderabad. Organised by CR Rao Advanced Institute of Mathematics, Statistics & Computer Science and supported by CSI Div III. Website: <http://www.crraoaimscs.res.in/bida> Contact: Dr. Saumyadipta Pyne. Ph: +91-7799000431, email: [spyne@broadinstitute.org](mailto:spyne@broadinstitute.org)

**25-17, Aug 2014: NITC 2014 : ICT For Inclusive Development.** Organised by The Computer Society of Sri Lanka (CSSL) at Colombo, Sri Lanka. For CFP and other details, pl. visit <http://www.nitc.lk/> Email: [info@cssl.lk](mailto:info@cssl.lk) / [events@cssl.lk](mailto:events@cssl.lk)

**12-14 Dec 2014: CSI-2014: 49th Annual Convention.** Organised by Computer Society of India, Hyderabad Chapter In association with JNTU, Hyderabad & DRDO. Theme: Emerging ICT for Bridging Future. Paper submission deadline: 15<sup>th</sup> Jul 2014. Details at: <https://www.easychair.org/conferences/?conf=csi2014> website: <http://www.csihyderabad.org/csi-2014>

**16-20 Dec 2014: ICISS-2014: International Conference on Information Systems Security** at Institute for Development & Research in Banking Technology (IDRBT), Hyderabad. This conference is co-sponsored by CSI Division IV and CSI SIG-IS. For further details, please Visit [http://www.idrbt.ac.in/ICISS\\_2014/](http://www.idrbt.ac.in/ICISS_2014/)

**19-21 Dec 2014: EAIT-2014: Fourth International Conference on Emerging Applications of Information Technology** at Kolkata. Organized by CSI Kolkata at ISI. Website: <https://cmt.research.microsoft.com/EAIT2014>  
Email: [csieait@gmail.com](mailto:csieait@gmail.com)

### ICT News: Voices & Views

- About 70% of the global offshoring capability is centered around India – Cap Gemini.
- With many subscribers holding multi-SIMs, the company sees an opportunity as the total number of Indian mobile users will not be more than 500-550 million – Idea Cellular MD.
- The tele-shopping market in India is estimated to be worth Rs. 2,000 crore and has been growing at more than 40% over the last four-five years.
- IT infra market will touch \$1.9 b this year and will touch \$2.35 billion by 2017 – Gartner.
- The global IT services opportunity by 2017 will be \$752 billion and that for APJC is forecast to be \$159 billion with \$11.9 billion as Indian share having a CAGR of 10.2% -- IDC.
- There are over 350,000 telecom towers in the country and a substantial number of them are still not connected to the power grid.
- At least 20 per cent of the villages in the North-East do not have mobile connectivity -- TRAI.
- The Indian analytics market is set to be \$1.15 billion by 2015 from the current \$ 375 million with over 500 companies operating in this segment.
- India today has a little over 2,630 MW of solar and about 20,000 MW of wind power capacity. The growth in both these major has been far below potential.
- Flipkart.com, acquiring fashion e-retailer Myntra.com is seen as an early phase of consolidation in the Rs. 62,000-crore e-commerce market.
- Oracle's victory over Google on API copyright may impact software development.
- The digital payment industry is expected to grow at 40% to touch Rs. 120,120 crore by end 2014. Out of around 800 million online transactions in 2013, nearly 53 per cent were done through credit (21%) and debit (32%) cards.
- Cisco estimates that about 50 billion devices will be connected to the Internet by 2020.
- India is aiming for a big chunk of China's domestic IT-BPO business, which is estimated to grow to \$84 billion in the next six years.

### ICT News: Govt, Policy, Telecom, Compliance

- IPR: US does not blacklist India.
- The DoT is planning to set up an application development center to provide testing facilities, support for launch and commercial run and storage capacities to selected entrepreneurs, with an outlay of Rs. 1,000 crore over a three-year period..
- The National Telecom Policy 2012 targets 175 million broadband subscribers by 2017 and 600 million by 2020. Rural telecom penetration in India is targeted to be 70% by 2017 and 100% by 2020.
- DoT seeks infra sector tax breaks for tower firm.
- BSNL exploring ways to improve Internet connectivity in north-eastern States
- The National Cyber Safety and Security Standards will release a comprehensive set of guidelines for private and public sector companies to secure their online data.
- Telecom user-base rises to 933 million in March. The country's overall wireless tele-density rose to 72.94.
- Rs. 5,000-cr project to improve mobile connectivity in North-East through Universal Service Obligation Fund.
- The Kerala cell of Telecom Enforcement Resource and Monitoring (TERM), under Telecom Dept., has given clean chit for mobile towers in the State in respect of compliance to radiation norms.
- DIPP Secretary discusses FDI in e-commerce with industry.
- Nasscom expects Modi to make India fully digital.
- As Narendra Modi took charge of the BJP's Parliamentary Committee, the twitter handle @PMOIndia was renamed @PMOIndiaArchive.

### ICT News: IT Manpower, Staffing & Top Moves

- BPO firm EXL may hire 6,000 this fiscal.

- Cognizant ended the March quarter with around 178,600 employees of which 167,300 were service delivery.
- Low-skilled IT jobs 'grounded' as firms look for 'cloud' professionals.
- US war veterans are increasingly hired by Indian BPO firms.
- 5,000 workers at Nokia Chennai plant opt for voluntary retirement scheme.
- The analytics professionals in India obtain a 250% hike in their salaries from entry level analysts to manager.
- Infosys stops giving loans and advances for employees for car, home, personal computer, telephone, medical, marriage, education and personal loans, salary advances, and loans for rental deposits, ranging from one month to eight years. It has \$41 million in these kinds of loans and advances.
- Nandan Nilekani is the top choice of Infosys employees for the new CEO's job.
- Infosys received 9.11 lakh job applications in 2013-14 while touching the record 14.23 lakh in 2005-06.
- Infosys President BG Srinivas resigns.

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

- Ericsson in India now has the largest number of employees (18,000) making it the largest operations for the telecom equipment maker in the world.
- Technopark-based Seaview Support Systems is introducing MobScan, a computer mouse with in-built scan technology.
- India is the hub of innovation and delivery for Cap Gemini, and its headcount in India crossed 50,000 recently making it the largest employee base in the world. It employs a total of 1.34 lakh personnel across 44 countries.
- Autodesk to sell software under monthly installment scheme. Its entire software portfolio free of charge for students across India.
- Happiest Minds is creating a platform that will help the company bag deals in the Internet of Things (IoT) or machine-to-machine solutions.
- Out of 60,000 student innovators, a team from Hyderabad wins Microsoft Imagine Cup.
- Brands are earmarking about 10-20% of their total advertising spend on digital marketing, of which selfie campaigns are becoming a major part.
- Cognizant is betting on Code Halo – the information flowing between computing devices – to drive its consulting business.
- Infotech Enterprises renamed as Cyient, targets \$1-billion revenue.
- ItzCash eyes 60% growth in pre-paid consumer cards.
- Hannover Milano Fairs, will hold the world's largest IT trade exhibition, CeBIT, for the first time in India during Nov 12-14 at Bangalore.
- Viom Networks, Japan's NEDO tie up to cut diesel use in towers.
- LED TV maker Vu Technologies goes online to sell more and cheaper too.
- IBS Software tooling up Gatwick airport operations.
- Lean Start up is a methodology that asks entrepreneurs to vet their ideas with stakeholders, get feedback and fine-tune the idea before going ahead with product development.
- Election results drive data usage for telecom firms.
- IIT to handhold start-ups with early-stage funding, mentoring.
- Samsung's new series of printers with near-field communication (NFC) capability, which will allow printing from smartphones.
- Microsoft launches a new initiative -- ThinkNext partnering with iSPIRT and TIE.
- Ojus ATM employs a range of modern and traditional global health practices, such as AYUSH (ayurveda, yoga, unani, siddha and homeopathy), acupuncture and energy medicine.
- Microsoft unveils Skype Translator

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

**Unit and Ubiquitous Internet of Things:** Although the Internet of Things (IoT) will play a key role in the development of next generation information, network, and communication technologies, many are still unclear about what makes IoT different from similar concepts. Answering fundamental questions about IoT architectures and models, this book introduces essential IoT concepts from the perspectives of mapping and interaction between the physical world and the cyber world. It addresses key issues such as strategy and education, particularly around unit and ubiquitous IoT technologies. Supplying a new perspective on IoT, the book covers

emerging trends and presents the latest progress in the field. It also: Outlines a fundamental architecture for future IoT together with the IoT layered model; Describes various topological structures, existence forms, and corresponding logical relationships; Establishes an IoT technology system based on the knowledge of IoT scientific problems; and Provides an overview of the core technologies, including basic connotation, development status, and open challenges. This book examines ubiquitous sensing, networking, and communications, as well as information management involved in unit IoT. It describes global IoT applications and includes coverage of ubiquitous, local, industrial, national, and transnational IoT. Presenting detailed case studies that illustrate various application scenarios, the text considers the main IoT supporting technologies including resource management, loop control in actuation, session management, space-time consistency, security and privacy, energy management, spectrum management, nanotechnology, quantum technology, and big data. **Author: Huansheng Ning. Published by: CRC Press ([www.crcpress.com](http://www.crcpress.com)).** Pages: 260 & 51 illus. Price: USD 63.99/=. A copy of the book is being added in the CSI Library at CSI ED, Chennai.

**Conflict and Cooperation in Cyberspace: The Challenge to National Security:** This book brings together some of the world's most distinguished military leaders, scholars, cyber operators, and policymakers in a discussion of current and future challenges that cyberspace poses to the United States and the world. Maintaining a focus on policy-relevant solutions, it offers a well-reasoned study of how to prepare for war, while attempting to keep the peace in the cyberspace domain. The discussion begins with thoughtful contributions concerning the attributes and importance of cyberspace to the American way of life and global prosperity. Examining the truths and myths behind recent headline-grabbing malicious cyber activity, the book spells out the challenges involved with establishing a robust system of monitoring, controls, and sanctions to ensure cooperation amongst all stakeholders. The desire is to create a domain that functions as a trusted and resilient environment that fosters cooperation, collaboration, and commerce. Additionally, the book: Delves into the intricacies and considerations cyber strategists must contemplate before engaging in cyber war; Offers a framework for determining the best ways to engage other nations in promoting global norms of behavior; Illustrates technologies that can enable cyber arms control agreements; and Dispels myths surrounding Stuxnet and industrial control systems. General Michael V. Hayden, former director of the National Security Agency and the Central Intelligence Agency, begins by explaining why the policymakers, particularly those working on cyber issues, must come to understand the policy implications of a dynamic domain. Expert contributors from the Air Force Research Institute, MIT, the Rand Corporation, Naval Postgraduate School, NSA, USAF, USMC, and others examine the challenges involved with ensuring improved cyber security. Outlining the larger ethical, legal, and policy challenges facing government, the private sector, civil society, and individual users, the book offers plausible solutions on how to create an environment where there is confidence in the ability to assure national security, conduct military operations, and ensure a vibrant and stable global economy. **Editors: Panayotis A Yannakogeorgos, Adam B Lowther. Published by CRC Press ([www.crcpress.com](http://www.crcpress.com)).** Pages: 360 & 13 illus. Price: USD 38.99/= . A copy of the book is being added in the CSI Library at CSI ED, Chennai.

**Concise Guide to Databases:** Modern businesses depend on data for their very survival, creating a need for sophisticated databases and database technologies to help store, organise and transport their valuable data. This textbook/reference presents a comprehensive introduction to databases, opening with a concise history of databases and of data as an organisational asset. As relational database management systems are no longer the only database solution, the book takes a wider view of database technology, encompassing big data, NoSQL, object and object-relational, and in-memory databases. The text also examines the issues of scalability, availability, performance and security encountered when building and running a database in the real world. The Topics and features include: Review and discussion questions at the end of each chapter, in addition to skill-building, hands-on exercises; Introduction to the fundamental concepts and technologies in database systems, placing these in an historic context; the challenges faced by database professionals; the use of a variety of database types in business environments; and discussions on areas for further research within this fast-moving domain. With its learning-by-doing approach, supported by both theoretical and practical examples, this structured textbook will be of great value to advanced undergraduate and postgraduate students of computer science, software engineering, and information technology. Practising database professionals and application developers will also find the book an ideal reference that addresses today's business needs. **Authosr: Peter Lake & Paul Crowther. Published by: Springer Press ([www.springer.com](http://www.springer.com))** Pages: 307+ XIX, 113 illus. Price: EURO 44.99/= A copy of the book is being added in the CSI Library at CSI ED, Chennai.

**What Is Computer Science? An Information Security Perspective:** This book addresses the fundamental question: What Is Computer Science? Rather than supplying a brief overview of every relevant topic, the book showcases a set of representative concepts broadly connected by the theme of information security. The presentation of each topic can be treated as a "mini" lecture course, demonstrating how it allows us to solve real problems, as well as how it relates to other subjects. The discussions are further supported by numerous examples and practical hands-on exercises, which together will be sure to whet your appetite for the many fascinating aspects of computer science. This book: Presents a concise introduction to the study of algorithms, and describes how computers work using the example of computer viruses; Introduces the concepts of data compression, and error detection and

correction; Highlights the role of data structures, and how their design can have a profound influence on algorithms that operate on them; Explores the topic of web-search, with a specific focus on examples drawn from cryptography and information security; Reviews both historic and modern cryptographic schemes, examines how a physical system can leak information, and discusses the idea of randomness; Investigates the science of steganography, the hiding of secret data within non-secret data; and Provides additional supplementary material at an associated website. This easy-to-read textbook is an ideal introduction to the study of computer science for students beginning on, or contemplating taking, an undergraduate degree. Teachers wishing to offer a primer on the field will also find the book an excellent educational resource. **Authors: Daniel Page & Nigel Smart. Published by: Springer Press ([www.springer.com](http://www.springer.com)) Pages: 232+XVIII, 84 illus. Price: EURO 32.12/=** A copy of the book is being added in the CSI Library at CSI ED, Chennai.

**IPv6 for Enterprise Networks:** This book brings together all the information you need to successfully deploy IPv6 in any campus, WAN/branch, data center, or virtualized environment. Four leading Cisco IPv6 experts present a practical approach to organizing and executing your large-scale IPv6 implementation. They show how IPv6 affects existing network designs, describe common IPv4/IPv6 coexistence mechanisms, guide you in planning, and present validated configuration examples for building labs, pilots, and production networks. The authors first review some of the drivers behind the acceleration of IPv6 deployment in the enterprise. Next, they introduce powerful new IPv6 services for routing, QoS, multicast, and management, comparing them with familiar IPv4 features and behavior. Finally, they translate IPv6 concepts into usable configurations. Up-to-date and practical, IPv6 for Enterprise Networks is an indispensable resource for every network engineer, architect, manager, and consultant who must evaluate, plan, migrate to, or manage IPv6 networks. **Authors: Shannon McFarland, Muninder Sambi, Nikhil Sharma, and Sanjay Hooda. Published by: Pearson Education ([www.pearsoned.co.in](http://www.pearsoned.co.in)). Pages: 372 + XXII. Price: INR 675/=.** A copy of this book is being added in the CSI Library at CSI ED, Chennai.

#### **InfoQuiz-2014-Jun (EIGHT Prizes to of INR. 250/= each to Win)**

1. OMG means -----
2. Whose Goal is "Providing a free encyclopedia to everyone on the planet.
3. Classical Computer : bits = Quantum Computer : -----
4. The successor to Mr N. R. Narayana Murthy as CEO at Infosys is considered as the father -----, an in-memory, column-oriented, relational database management system developed and marketed by SAP.
5. ----- is the latest invention from HP that could revolutionize the computing world and is claimed can manage 160 petabytes of data in a mere 250 nanoseconds.

Email your answers by **10<sup>th</sup> Jul 2014** to [csi.infoquiz@gmail.com](mailto:csi.infoquiz@gmail.com) with subject "**infoquiz-2014-jun**". Please provide your name, designation, company/institution, full postal address (to send the prize amount by cheque) and the 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](http://www.orbitinnovations.com))**. Answers along with the winners' info will be published in the next issue.

#### **Answers to InfoQuiz-2014-Apr-May**

Amazon, Project Ara, 950 times, Make it matter, Ubuntu

#### **The winners of INR. 250/= each**

- Ashish Dandekar, Mumbai
- Tarun Chintam, Secunderabad
- Sivasubramanyam, Chennai
- Pavan Shankar Koli, Navi Mumbai
- B. Sundaram, Chennai

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