



## CSI eNewsletter

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**The IT Leaders 100 list:** "Computing" magazine unveiled its long-awaited IT Leaders 100 list at its first annual IT Leaders Summit recently. According to the Computing's editor Stuart Sumner, "We decided to call this the IT Leaders 100, because you could be in charge of technology strategy and direction at a multinational firm, with hundreds of IT staff, tens of thousands of users and a multimillion pound budget, and you might not necessarily have the CIO title. You could be the CTO, or the COO. You might even be the CMO, as that role is increasingly responsible for areas of IT. Or you might be the head of IT, or IT director. So we decided that the phrase 'IT Leader' was appropriate as it encompasses such a wide variety of roles." Many factors seems to have been taken into account formulating this list, such as size of organisation, number of IT staff, number of users, size of technology budget and level of transformation achieved. Computing is all about the IT leader - whether that's the CIO, CTO, IT director, chief architect or any one of dozens of other titles. Having spoken to hundreds of IT leaders over the last 12 months and beyond, we feel well qualified to produce the definitive rankings for the top 100 IT leaders in the UK. The interviews with many of these leaders are worth reading. <http://goo.gl/KT7L6x>

**A Strategist's Guide to the Internet of Things:** The digital interconnection of billions of devices is today's most dynamic business opportunity. Humanity has arrived at a critical threshold in the evolution of computing. By 2020, an estimated 50 billion devices around the globe will be connected to the Internet. Perhaps a third of them will be computers, smartphones, tablets, and TVs. The remaining two-thirds will be other kinds of "things": sensors, actuators, and newly invented intelligent devices that monitor, control, analyze, and optimize our world. <http://goo.gl/Tozzdw>

**What Are MOOCs Good For?:** Although massive open online courses (MOOCs) have not revolutionized the higher-education model the way advocates expected them to, they still have value. In September, researchers led by the Massachusetts Institute of Technology's (MIT) David Pritchard published a study of an online course, which determined the MOOC effectively communicated difficult concepts, even to students who were not up to MIT's standards. MOOCs essentially are content, similar to textbooks, that when used as the centerpiece of a well-taught course can benefit learners. MIT's Sanjay Sarma says many of the MOOCs' underlying technologies, which are interactivity- and assessment-centered, can be useful for students on campus. Meanwhile, Harvard University's David Malan notes MOOC tools add another dimension to his lectures by enabling them to be split up online into shorter segments, so students can spend as much time on each unit as they require. "We're nearing the point where it's a superior educational experience, as far as the lectures are concerned, to engage with [students] online," he says. Pritchard says MOOCs are prompting people across higher education to consider how they can warrant charging huge lecture fees to students when better and less costly courses are available online. He also thinks MOOCs could play a role in education at the high school and lower levels, given that teachers are already a major audience. <http://goo.gl/k4km3o>

**Top 10 Clever Google Search Tricks:** Google is a more powerful tool than most people realize. You can get much more refined searches with Google's built-in tools, advanced operators, and third-party extensions. You can also use it for some pretty cool stuff if you know the right tricks. Here are 10 of our favorite lesser known tricks and features. <http://goo.gl/zBTXZy>

**Internet Tricks That You Might Not Know:** That of Internet is an endless saga, and this is proved every single time we come across something that we didn't know. It might be something as hard as the mystery behind our dreams, or as simple as some tricks that could have made our life easier. Here is a list of some tricks for your Windows Laptop/ Desktop that you would wish you had known before. <http://goo.gl/6OI7no>

**2014 Global Report on the Cost of Cyber Crime:** The incidence and cost of cyber crime is escalating. The headlines show us that. But now the Ponemon Institute provides the numbers you need to plan and manage your investments in cyber security. One of the major findings of the 2014 Global Report on the Cost of Cyber Crime is that investments in security personnel, processes, and technology can reduce your losses. Download the complete report from <http://goo.gl/mByUOu> to learn: What kind of attacks are most common and most costly; Which security activities receive the most investment by respondents; and How deployed security information and event management (SIEM) affected losses.

**10 Big Data Trends Apt to Influence Enterprises in 2015:** Enterprises that know their customers and potential customers will know success. The more they collect and analyze information to determine customers' wants, needs and preferences for a particular product or service, the more efficient the business can operate. This science is called big data analytics, and it's a market that IDC has forecast will surge from \$3.2 billion in 2010 to \$17 billion in 2015. Ideally, big data toolsets provide scalable, high-performance analytics at the lowest cost and in near-real time to the increasing numbers of business users demanding access to such information. By analyzing this data, companies gain greater intelligence as well as competitive advantages. All enterprises need to address how they are going to harness all this information, and do it efficiently, so that the IT they use pays them dividends. This slide show, edited by eWEEK highlights key trends in store for 2015. <http://goo.gl/6mAiEW>

**The next 30 years could see PCs fading away and robots taking over:** Kaspersky predicts how life would be impacted by 2045 to mark 30 years of the birth of PC. The boundaries between humans and robots will blur. The world's population would include billions of people and billions of robots. 3D printers could design and create what we need at home. <http://goo.gl/jlOKVc>

**Beginner's guide to R:** With so much emphasis on getting insight from data these days, it's no wonder that R is rapidly rising in popularity. R was designed from day one to handle statistics and data visualization, it's highly extensible with many new packages aimed at solving real-world problems and it's open source (read "free"). If you're ready to learn, we have just the ticket: A free PDF of Computerworld's "Beginner's guide to R." Included in this 45-page guide: Introduction: First steps, including downloading R and RStudio, setting your working directory and installing and using packages; Get your data into R: Importing local and remote files, copying data from your clipboard, saving after import; Easy ways to do basic data analysis: Examining a data object, seeing basic stats with one line of code, slicing/subsetting your data; Painless data visualization: Base R graphics, ggplot2, adding color, exporting graphics; Syntax quirks: A few ways in which R is most unlike other programming languages -- learn these and you'll be ready to tackle R's idiosyncrasies. Plus: How to use SQL syntax within R; and Additional resources: More than 60 recommended websites, videos, blogs, social media/communities, software and books to help you on your R journey. Sure, it will take more than any single guide to make you an R master. But if you read all the explanations and follow the code, you should be well on your way to using R to get more out of your data. Download the PDF guide from <http://goo.gl/jsLGbd>

**Don't trust that lamp! How 12 common devices can now be hacked:** The Internet of Things, that is to say all of those devices we use that are connected or "smart," continues to multiply like rabbits in spring. According to various sources, the number of wirelessly connected devices is estimated to reach more than 40 billion worldwide by 2020, including one billion smart electric meters, 150 million connected cars, and 100 million smart lights. From insulin pumps to thermostats to coffee makers, more and things we use in our daily lives that we don't normally think of as computers, are, in fact, behaving like computers. By now having brains and being connected, these devices make our lives easier by offering apps to control them and by tailoring their behavior to us. But this convenience comes at price; namely, that many of these devices that we now connect to our computers, home networks or the Internet are now susceptible to malware and hacking. Use the navigation buttons above to see how 12 devices many of us use in our daily lives have been shown to be hackable. <http://goo.gl/ueWPgg>

**Sher-locked: 12 famous passwords used through the ages:** Passwords - we all have a million of them in our lives. Like them or not, you can't escape having to use them for just about everything these days, from unlocking your mobile phone to accessing your bank account online to streaming a movie on Netflix. While the prevalence of passwords has greatly increased thanks to computers and the Internet, they've actually been used, in one form or another, to protect things for hundreds, and even thousands, of years. Inspired by a recent Quora thread, here are a dozen of the most famous passwords used through (mostly recent) history, in both the real and fictional worlds. <http://goo.gl/2zAksC>

**9 fantastical future display technologies:** For decades, there was exactly one way to look at electronically displayed text and images: the cathode ray tube. This hardworking, stalwart technology was the display of choice for everything, from radar systems in the 1940s all the way to desktop PCs in the 1990s, with millions of heavy, fragile cabinet TVs in between. As computing has moved out of the office, into the home, and onto the streets, so has display technology. Here we look at emerging initiatives for the traditional workstation, as well as potential developments in screen tech for mobile, gaming, and outdoor environments. Consider this less a comprehensive overview of display technology -- entire segments of the industry are dedicated to that -- than a leisurely scroll through some of the more far-out displays the future may hold. <http://goo.gl/5i3920>

**7 social engineering scams and how to avoid them:** Social engineering threats are widespread, affecting even the most savvy IT professionals. While there's no guaranteed way to defend against them, half the battle is recognizing the methods they use. Here are seven ways social engineers may pilfer your money and data, plus tips to protect yourself against them. <http://goo.gl/DHXNMs>

**Ring a bell: 11 common phrases and terms that came from obsolete technology:** Most technology becomes obsolete sooner or later. But just because a particular piece of tech is no longer in our lives, doesn't mean it isn't still with us in some ways. One of the ways in which technology can leave a lasting, but less obvious, impact is in changes it makes to the way we speak. New terminology and phrases can sprout from technology, be incorporated into our daily language and remain in use well beyond the lifecycle of the thing that inspired them. Here are 11 examples of terms and phrases many of us still use which were derived from technology that has since become obsolete. <http://goo.gl/WSq86a>

**8 areas where CSOs and CIOs will converge in 2015:** In recent years, CIOs and CSOs have been closer together than ever before, and for good reason – to remain cohesive, effective and to maximize resources and ROI on business-focused efforts. As physical security is increasingly running on corporate IT infrastructure, these departments are no longer siloed, and their integrations extend further than just cybersecurity and into all realms of business, from business intelligence and company strategy, to HR and BYOD decisions. Here's a look at some of the areas where the gap will be bridged in 2015. <http://goo.gl/L5IBUB>

**Infographic: Password, Your Days Are Numbered:** Passwords are still used globally to protect our valuable information but they're failing miserably - opening up massive opportunities for criminal networks - putting companies and individuals at risk. It's easy to think you're safe but hacking has grown in recent years - both in numbers and expertise, at the consumer and business levels. This infographic will highlight the top ways password security is mishandled. The post-password era has dawned. Think beyond the password and keep hackers guessing as they work to catch up to technology's next great security advancements. <http://goo.gl/uMjCOa>

**F.C.C. Net Neutrality Rules Clear Hurdle as Republicans Concede to Obama:** Senior Republicans conceded on Tuesday that the grueling fight with President Obama over the regulation of Internet service appears over, with the president and an army of Internet activists victorious. The Federal Communications Commission is expected on Thursday to approve regulating Internet service like a public utility, prohibiting companies from paying for faster lanes on the Internet. While the two Democratic commissioners are negotiating over technical details, they are widely expected to side with the Democratic chairman, Tom Wheeler, against the two Republican commissioners. This story also includes a 2m 53s video on "How Net Neutrality Works" <http://goo.gl/GYgLRi>

**Server OS Buyer's Guide:** Vendor-neutral tips for choosing the best server operating system for your organization. Traditionally, choosing a server operating system meant simply selecting between Windows or Linux. However, now organizations have a plethora of choices and customization options, making it more critical than ever to utilize the right one to stay competitive. Fortunately, this brand-new guide can help— inside, explore the pros and cons of each server OS option and review a long list of key considerations you must keep in mind when making your decision. <http://goo.gl/AekrTq>

**The ways people described computers in the 1990s are hilarious:** In the 1990s, the internet was a hard-to-explain concept to people. Even though it's commonplace now, the idea of electronic mail and being able to surf endless amounts of information without using an encyclopedia was quite foreign. Many books, videos and images were created to help explain the Internet, some helpful, others not so much. Let's relive those early attempts at educating the masses about the relatively new concept of a connected digital world. <http://goo.gl/SmKPft>

**Video: Blind man sees wife for first time in 10 years:** A blind man from Minnesota is able to see his wife for the first time in 10 years, after receiving a bionic eye. Allen Zderad, 68, was diagnosed with a degenerative eye disease around 20 years ago, which eventually left him blind. Minnesota's Mayo Clinic gave Zderad a prototype eye device, known as Second Sight, allowing him to see shapes and human forms. Watch the video at <http://bit.ly/1DUIQt6>

**The digital black hole: will it delete your memories?:** Google's vice-president Vint Cerf has warned that all digitally stored information could be wiped out by tech upgrades, putting the sum total of human knowledge under threat. An author and scientist explains why today's systems are so vulnerable – and how pioneers are preparing for the worst. <http://goo.gl/0ETHI9> Realted Story: Google boss warns of 'forgotten century' with email and photos at risk at <http://goo.gl/7Y2yxn>

**2014 Gartner Magic Quadrant for Client Management Tools:** The Gartner Magic Quadrant for Client Management Tools evaluates tools that manage configurations and support system administration tasks for client devices. These tools automate system administration and support functions that would otherwise be done manually. New client management tool capabilities have emerged to support evolving enterprise initiatives. These capabilities are increasingly important to end-user computing and support managers in their tool selection process. <http://goo.gl/xD6XiR>

**How Google determined our right to be forgotten:** Google has acted as judge, jury and executioner in the wake of Europe's right to be forgotten ruling. But what does society lose when a private corporation rules public information? Mario Costeja González spent five years fighting to have 18 words delisted from Google search results on his name. When the Spaniard googled himself in 2009, two prominent results appeared: home-foreclosure notices from 1998, when he was in temporary financial trouble. The notices had been published in Spanish newspaper La Vanguardia and recently digitised. But their original purpose – attracting buyers to auction – had lapsed a decade ago, as had the debt. Costeja González asked the newspaper to remove them. When that was unsuccessful, he challenged Google, and the case was eventually elevated to the European Court of Justice, Europe's highest court. <http://goo.gl/bxGUSy>

**2015 Telecoms.com Global Industry Survey Report:** The 2015 Telecoms.com Intelligence Annual Industry Survey has garnered responses from 2,066 professionals from all parts of the telecoms sector. This is a substantial representation of today's industry, with more than half of all responses coming directly from service providers, and represents one of the industry's broadest and most comprehensive analysis pieces available today. Surprises and contradictions are what one tends to look for when examining the results of surveys such as this and there were several that stood out. Take multiplay, for example, where the trend's early movements came from fixed-line and internet service providers adding TV offerings to its portfolio. Surprisingly, the majority of respondents (60%) believe it will indeed be by mobile operators who are in the strongest competitive position to move towards multiplay. But clearly identified by operator respondents as the biggest challenge facing operators over the next five years was competitive pressure between operators (64%), swiftly followed up by competitive pressure faced by OTT content providers. Compared to last year, when the majority of respondents saw regulatory pressure on pricing as the biggest challenge facing the industry, this marks a substantial shift in mind-set sweeping across the industry. The survey was wide-ranging in scope. Telecom.com had asked the industry about operators' BSS strategies, the ongoing mission of deploying and expanding LTE networks, the move towards NFV and SDN-based network management, and telco network security among other issues. The benefits and challenges associated with each of these areas of operator focus emerged clearly, with network performance and quality of service for customers among the dominant concerns throughout. <http://goo.gl/Ta6jNd>

**Surfing the web safely: keeping your browsers safe:** How often do you use your browser? Cyber-criminals target browsers constantly, making it a potential Achilles heel for security. Hackers increasingly exploit vulnerabilities in browsers and plug-ins. Read to find out an easy way to reduce risk of attack. <http://goo.gl/aN2ZwQ>

**2015 Senior Wearables Predictions:** There are many reasons for parents to be concerned about their children. On the one hand, there is a lot going on in the world today, which is something that has made parents more conscience about the safety and wellbeing of their children. On the other hand you have parents that want their children to be free and run around and enjoy themselves. Both of these circumstances have the same end result being that all parents want their kids to be safe. This is an area for which wearable technology is well suited. In fact, over the past year we have seen several startups running Indiegogo and Kickstarter campaigns to produce devices that will give parents piece of mind. <http://goo.gl/MdX5fi>

**Rampant software errors undermine scientific results:** Errors in scientific results due to software bugs are not limited to a few high-profile cases that lead to retractions and are widely reported. Here I estimate that in fact most scientific results are probably wrong if data have passed through a computer, and that these errors may remain largely undetected. The opportunities for both subtle and profound errors in software and data management are boundless, yet they remain surprisingly underappreciated. <http://goo.gl/H2W17F>

**How cloud computing - and other new technology - could lead to the destruction of humanity:** Back in 2000, technologist Bill Joy, one of the co-founders of Sun Microsystems, penned a feature for Wired magazine that caused a storm. Although Joy could boast a CV packed with technology breakthroughs, "Why the future doesn't need us" saw him cast as a neo-Luddite. In it, he postulated that far from ushering in an age of comfort and leisure, new and advanced technology posed a potential threat to humanity. He cited nanotechnology with "uncontrolled replicators", genetic engineering, and robotics, to name just three, that separately or collectively posed a mortal threat to humanity if mis-used or mis-applied. If Joy were writing the same article today, he would no doubt add cloud computing to the list of threats: networks of servers controlled by a small group of companies - which will only get smaller with consolidation - that will increasingly communicate with each other so that organisations can run applications across disparate clouds. <http://goo.gl/dvlBVL>

**Video- Interactive: Where I went right:** Anyone can change everything, but to be successful you need to make the most of the time you have. From the battle for the open web to comet landings, via polar expeditions and a giant diplodocus, celebrated innovators Tim Berners-Lee, Maggie Aderin-Pocock, Ranulph Fiennes and Alice Roberts provide unique insights into the formative moments that have shaped their remarkable careers. <http://goo.gl/bnE1tN>

**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 startupper 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. <http://goo.gl/eiln4B>

**8 Things You Must Ignore To Stay Happy:** Happiness is a simple concept; yet, many people don't realize it. We all want to be happy but we search for it in wrong places. Some people find happiness in materialistic gains like owning a house, latest gadgets, expensive cars and more. But sometimes, even the biggest achievement of life does not make a person happy. On the other hand, you will come across many people who feel happy and satisfied although they have not done anything significant in their life. So what actually makes people happy? It is just the difference in perspective, the way we see things. This is the major difference between happy and unhappy people. Happy people tend to ignore a few negative things in life to stay happy while the unhappy ones fall into those traps and remain miserable. Sometimes people create their own problems and miseries by their own action. Check out these 8 traps you should avoid if you want to be happy in life. <http://goo.gl/XQjvmj>

**The 10 Intrapreneurs Commandments:** How Companies Can Benefit: Beats by Dr. Dre, Gmail, the Facebook "like" button, Java, Sony PlayStation. These products, icons and services, and many more, are now part of our lives – and some of us could not imagine living without them. But very few know these names were the result of innovative, smart intrapreneurship, way before the word was even invented or became mainstream jargon. Intrapreneurs are employees who work within companies but still retain some level of entrepreneurship. These professionals benefit companies, themselves and the public in several ways. <http://goo.gl/mRKVMD>

**Five career-advancing information technology skills:** IT pros want to advance their careers. See which IT skills will enhance your worth in 2015, and the training and certifications that will propel you forward. <http://goo.gl/HlzLrG>

**10 Social Media Customer Service Tactics You Must Implement During 2015:** In online terms, social media customer service is a low hanging business fruit and an area where you can steal a march on your competitors during 2015. Usually around this time of year, I write about those online marketing trends that I expect to feature heavily during the following year. However, this year I'm changing the focus to social customer service, where customer expectation is not being met by the majority of businesses. It's worth noting that social customer service activities double as some of the best online marketing tactics you could employ. The following are 10 social customer service tactics that I recommend all businesses must implement during 2015: <http://goo.gl/e19Cs7>

**What Self-Made Billionaires Do Best:** They don't just generate results. They produce breakthroughs. Self-made billionaires are distinguished from the average business leader in one respect. It's the way they look at the world. Their unusual perspective allows them to turn good ideas into great businesses. We found that most self-made billionaires practice five habits of mind as they apply to ideas, time, action, risk, and leadership. These five habits can be summed up with the word produce. To produce, in our lexicon, is to look beyond an existing business or market to envision something new, develop the often divergent resources necessary to make it real, and sell it to customers who didn't even know they wanted it. Producers see unmet demand or potential for disruption and meet it head-on. They do this not once or twice, but throughout their careers. If they suffer professionally, it's because producing is difficult to measure, and sometimes it's difficult to spot. <http://goo.gl/81PTKQ>

**The 10 Types of Nightmare Bosses:** I've been lucky to have some great bosses over the years (hat-tip to Anita) but I've also had some really bad ones. Dealing with difficult or nightmare bosses can be both physically and emotionally draining and unfortunately it can also have a direct impact on your career and your effectiveness. The following are ten types of nightmare bosses (behaviour patterns) that I've come across. In my experience, it's rare that a bad boss fits the exact stereotype but rather will demonstrate his or her own unique set of unproductive or destructive behaviours. Also, good bosses particularly on bad days or in bad situations can behave badly on occasion. I know I have! <http://goo.gl/aL9yHI>

**Best Business Books 2014: Innovation:** This year's three best business books on innovation offer answers to this crucial query in intriguing and insightful, if sometimes indirect, ways. In The Second Machine Age, economist Erik Brynjolfsson and information technologist Andrew McAfee suggest that smart machines are not only the products of innovation, but also essential enablers of innovation prowess. In Social Physics, MIT data scientist Alex Pentland offers a data-driven and eye-opening inquiry into the flow of ideas among people. And in How Google Works, high-level company insiders Eric Schmidt and Jonathan Rosenberg, with Alan Eagle, take us down to where the rubber meets the road. <http://goo.gl/dRNgnPN>

## Results of Student Essay Contest on Harnessing the Power of ICT for our New Initiatives

Computer Society of India, Chennai Chapter, in association with the IEEE Computer Society, Madras and IEEE Professional Communication Society, Madras conducted an Essay Contest in two streams: Stream 1: Open to School Students (from 8<sup>th</sup> Standard to Plus 2); and Stream 2: Open to College/Polytechnic Students (UG/PG students of all disciplines).

The participants had the option of submitting an essay on “ICT for Digital India” or “ICT for Make in India” or “ICT for Clean India” by 31st Jan 2015.

Submitted essays were evaluated on criteria such as originality, novelty, applicability, potential value of the proposed idea(s) and clarity and style of presentation by a panel consisting of Mr. Ramesh Gopaldaswamy (Author, Consultant and Guest Faculty, IIT Madras), Mr. Pramod Mooriath (President, Qatalys Software Tech & Chair, CSI Chennai), Ms. Latha Ramesh (VP-Academic Engagement & Service Delivery, Classle Knowledge Pvt Ltd & Past Chair, CSI Chennai) and Mr. K. Adhivarahan (ICT Consultant & Past Chair, CSI Chennai).

We present below in the table, the winners of the first three prizes in each stream. Consolation prizes of Rs. 1000/= and Certificates of Merit are also have been announced to a select number of participants. For the full list pl. visit <http://goo.gl/FziCmK> Our congratulations to all the winners and thanks to all the participants.

Prize	Amount (Rs)	School Stream Winners	College Stream Winners
First	10,000	Karthik Balaji M St. John’s Public School, Chennai	Ganesh L Panimalar Inst. of Tech, Chennai
Second	5,000	Sanjana Lakshmi CN St. John’s Public School, Chennai	Swati Kesarwani Shambhunath Inst. of Engg & Tech, Lucknow
Second	5,000	Shlok Prakash Kendriya Vidyalaya, Chennai	Vipin Paul Mount Zion College of Engg & Tech, Pudukkottai
Third	2,500	Vijayalakshmi Sundar Pushpalata Vidya Mandir, Tirunelveli	Akhila Sai V Panimalar Engg. College, Chennai
Third	2,500	Vineel Tipirneni Sri Chaitanya School, Vijayawada	Manjula S College of Engg. , Anna Univ., Chennai
Third	2,500	Gowri R SDAV Hr. Sec School, Chennai	Sivabalan KC Tamilnadu Agricultural Univ., Coimbatore
Third	2,500	Mangala Shenoy K HHSIBS Hr. Sec School, Kasaragod	Jayamathan S Sri Ramakrishna Engg. College, Coimbatore

We would like to thank Dynamic Group, Anjana Software Solutions Pvt. Ltd, HP Networking, Cognitive Platform Solutions (CPS) Pvt Ltd, Orbit Innovations and CloudReign Technologies for the generous sponsorship of the prizes.

Our thanks to Prof. San Murugesan (Adjunct Professor, University of Western Sydney, Australia) and Mr. S. Ramasamy (GM, Great Lakes Institute of Management & Past RVP-VII and Past Chair, CSI Chennai) for their support in the successful conduct of this essay contest. We also take the opportunity to thank all those who had helped us in this contest and facilitated the participation.

The prize winning essays are being hosted at the website at <http://goo.gl/FziCmK> and the ideas presented in them will be shared with various agencies for possible implementation.

The prize money and the certificates will be sent to the winners during March 2015. Queries if any in this regard may be sent to [essay.csi@gmail.com](mailto:essay.csi@gmail.com)

## CSI Institutional Membership for Schools

Computer Society of India (CSI), India's longest serving premier society of Information Technology and Computer Science professionals, has been rendering yeoman service to IT Education, Research and Industry.

As you are aware, computers and communication technologies have become pervasive and their usage in our daily life continues to increase in several areas including education, entertainment, banking, travel, hospitality, healthcare and commerce. Our country is well known for providing IT solutions to the entire world. Indian IT industry earns over \$120 billion per year representing about 6% of our GDP and employs over 3.5 million people in the areas of IT and IT-enabled services. By 2020, the earnings are expected to be about \$300 billion along with increasing employment in all sectors. This tremendous growth, of course, demands continuous learning and updating ones knowledge in computing, IT, Communication and related areas.

CSI has been playing a key role in fostering this growth and in harnessing ICT (Information and Communication Technology) for improving nation's socioeconomic status and quality of life through its various activities - awareness creation, improving digital literacy, providing updates on advances in ICT, training and educational programs, conferences and seminars. The primary focus for CSI, now in its Golden Jubilee (50th) year has been serving the needs and interest of IT professionals, academics, college students, and the IT industry. Consistent with realizing the enhanced and ambitious vision of "IT for Masses", CSI has launched an initiative that extends its services to schools through Institutional Membership (IM) to schools. Some schools have already become IMs and enjoying the benefits.

This Institutional Membership scheme is aimed at helping schools in computer education and use. As can be seen from the brochure at <http://goo.gl/aXYd2S> the Institutional Membership provides significant, long lasting benefits of value to the school - its management, teachers and students. Becoming an Institutional Member is easy. The website at <http://goo.gl/zEQTUK> provides the details on how a school can become an Institutional Member.

We look forward to having schools as Institutional Members, joining us in the exciting journey of taking ICT in India to the next levels.

We request our members to promote the IM in CSI among the schools in their area / in which their or their friends or contacts children are studying. Student members, may please promote the IM in CSI among the schools in which their or their friends brothers & sisters are studying.

If the schools have any queries or need assistance to become an IM, they may please contact: Mr. Y. Kathiresan, Senior Manager (Promotions), Computer Society of India, Education Directorate, C.I.T. Campus, IV Cross, Taramani, Chennai - 600113. Phone: 044 - 2254 1102 / 1103; Mobile: 09444896312; email: [csipromotions@csi-india.org](mailto:csipromotions@csi-india.org)

## ICT News: Voices & Views

- Mobile attacks would deploy Cryptolocker solutions to lock files on your mobile devices, seeking a ransom. Mobile ransomware will break into cloud accounts and encrypt the data -- FireEye.
- India ranked 6th largest source of world's spam. The US (14%), Russia (6.1%) and Vietnam (6%) were the three biggest sources of spam in the 3<sup>rd</sup> quarter of 2014. -- Kaspersky.
- A new breed of writers is taking the self-publishing route, capitalising on the digital boom and spread of e-books. Self-publishers can make up to 70% from royalties as opposed to 5-20% from traditional publishing.
- Domestic demand for IT hardware and electronics is expected to touch \$400 billion by 2020 of which \$320 will be imported. 'Make in India' to offer big opportunity for IT manufacturers – MAIT.
- As on March 2014, India had a total of 1,60,005 ATMs, of which 58% are in metro and urban centres, 27% in semi-urban centres and only 14.5% in rural centres.
- The margins for selling saris can go up to 200% in the online segment compared with 60% for other categories like apparel, and consumers durables.
- The Internet of Things is pegged to be a market size of \$8.2 trillion by 2020 – IDC.
- "The Internet of Everything (IoE) value at stake in India over 10 years (2013–2022) is \$511 billion with private sector value is \$394.4 billion and public sector value is \$116.2 billion. India will have 526 million Internet users and 1.5 billion networked devices by 2018 – Cisco.
- Implementation of free software across 3.2 lakh schools in the country could lead to savings of more than Rs. 8,000 crore. Rs. 18 lakh is spent per school under the Centre's "ICT in Education" scheme – Rahul De, HP Chair Prof., IIMB.
- Smart cities should aim at improving governance – Modi.

- Kerala will be the first State to go on NOFN. In two years, the entire Kerala population will move to smartphones – BBNL chief.
- The cost of a transaction at a bank branch is Rs. 40-50 on an average. But at an ATM the cost drops to Rs. 10-12, and on the digital medium, it drops further to Rs. 2-3 a transaction – Banking experts.
- At present the IT sector in Karnataka provides direct and indirect employment to 40 lakh people besides contributing Rs. 1.80 lakh crore to export revenue -- SR Patil, Karnataka Minister for Planning and Statistics, IT, BT, Science & Technology.
- Cashless transactions only way to curb black money – Modi.
- Artisans take e-comm route to better sales, life.
- VLSI talent is in short supply in India --industry sources
- The global ebook market is now valued at \$14.5 billion and may reach over \$22 billion by 2017.
- The trading of 'used' software licences is legal in Europe. Dutch court to deliver its judgment on second-hand/used ebooks.
- The present demand for USB sticks in India is at about 25-30 million units per year, of which nearly 99% is imported – Industry sources.
- PCs will die, robots and 3D printers will rule – Kaspersky.
- Connect optical fibre with power lines to realize India's digital vision – Kalam.
- India is currently ranked 118 worldwide on broadband speed, averaging 1.7 mbps against over 20 mbps in Japan and Hong Kong. With approximately 14 million fibre km laid for the last one decade, it is expected to reach 30 million fibre km by 2017. But China is creating 200 million fibre km every year to bridge the digital divide. If we need to connect 600,000 villages and the cities, then we need to lay maximum of 400 million fibre km – Kalam.
- E-commerce explosion threatens the country's 1.1 crore retail shops, which employ over 3.3 crore people.

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

- The new IT Policy of the Maharashtra Govt. will have imprints of Modi's 'Digital India' and 'Make in India' campaigns, while building on the 2009 IT/ITeS Policy. Aims to create technology hubs and lease out land to IT/ITeS companies for 99 years and also plans to automate all citizen services.
- With over 4 years, DoT yet to clarify 3G, broadband rollout norms.
- DeitY wants the Ministry of Defence to expand the scope of its offset policy for boosting electronics manufacturing in India.
- Department of Electronics plans Rs. 10,000 crore angel fund.
- DoT panel wants 15-20% higher reserve price of 3104 crore for the 800 MHz spectrum suggested by TRAI for spectrum auction.
- The Telangana Govt. to come out with its maiden IT Policy with an aim to doubling IT exports to Rs. 1.20 lakh crore in the next five years. Aims to achieve a growth rate of 16% and provide 20 lakh direct and indirect jobs.
- DeitY seeks to bless Indian Set Top Box manufacturing firms with Rs. 100 crore fund by offering long term credit.
- DoT ropes in state-owned entities for 'IoT' push.
- Govt. proposes to create the EDF of \$2 billion (around Rs. 12,000 crore) to promote innovation, intellectual property, research and development, nano electronics and to help commercialise 'Made-in-India' products, to reduce dependence on imports.
- RBI may scrap 2-step verification for transactions below Rs. 3,000 to boost ecommerce.
- E-mail services may come under new Consumer Protection Act.
- Home Ministry sets up group to tackle cyber-crime.
- Microsoft CEO Satya Nadella has offered to collaborate with the Centre in providing last-mile internet connectivity. Expressed interest to be part of both Digital India and make in India initiatives.
- Post offices to issue ATM-cum-debit cards for savings account holders.
- The Centre invites comments from stakeholders on the first draft of the National Intellectual Property Rights (IPR) policy.
- DoT may ask Google to do Loon trials.
- 3G spectrum: TRAI proposes 18% cut in reserve price at Rs. 2,720 cr/Mhz.
- The Rs. 30,000-crore project NOFN will be the digital backbone of India and aims to take high-speed broadband connectivity to 2.5 lakh gram panchayats.
- RBI is looking to remove the two-factor authentication requirement for small-value transactions up to Rs. 3,000 to make transactions easier.
- The AP Govt., to start an online window – Mee Kosam – to let people post their grievances online.
- NITI -- National Institutions for Transforming India Aayog replaces Planning Commission.
- Free land among sops Karnataka is offering to IT firms moving to Tier-II/III cities.

- Online approval system soon for moving heavy cargo.
- India, US to discuss social security, visas ahead of Obama's visit.
- Centre to implement Rs. 1,900-cr e-governance project for ESIC.
- Cabinet approves 2G spectrum auction, hopes to garner Rs. 64,800 crore.
- Rural BPO policy to improve skills, economic conditions soon – Prasad, IT Minister.
- Telecom industry fears expensive auction as Centre squeezes 3G spectrum supply.
- Digital knowledge bridge -- 'Gyan Setu' is set to help rural Indians derive the benefits of IT in daily activities.
- AP Govt. proposes a 6000 Crore optical fibre project which aims at making available 10-15 Mbps broadband connections each to 12 million homes at about Rs. 150 per month and on-demand availability of 100 Mbps to one Gbps connection to every business enterprise.
- In a first, Kerala allows mobile towers on govt land, buildings.
- Centre refers plea on banning porn websites to Cyber Law Division.
- Pre-Budget meet: IT industry wants tax incentives to set up data centres.
- Coming soon, policy on Net neutrality, security – IT Minister.
- The digitisation of about 73 lakh SHGs is expected to result in better participation in financial inclusion scheme.
- DoT agrees to Microsoft's proposal to tap unused spectrum in terrestrial TV frequency bands for offering broadband services.
- Modi's Digital India project delayed by cable tangle.
- Pricing 3G spectrum at Rs. 3,705 cr/MHz, Centre eyes Rs. 1-lakh crore mop-up.
- India asks for US comments on draft IPR policy.
- US, India to formulate smart city action plan in 3 months for Visakhapatnam, Allahabad, Ajmer.
- Hyderabad to have the country's biggest start-up facility T-Hub funded and promoted by the Telangana State Govt.
- E-commerce may soon come under the lens of nine ministries, RBI.

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

- With a view to address various employee-related issues, a national confederation of the Union for ITes Professionals (UNITES) has been launched.
- Microland to hire 100 for new Bengaluru centre.
- Atmel Corporation to expand Chennai centre. Currently employing 200 to double its size and focus on IoT.
- Infy focuses on building 'deep connect with employees'. To distil 10 ideas from Sikka's 'murmuration' – crowd sourced ideas drive.
- HCL Info Chief Executive Harsh Chitale quits.
- Foxconn, the \$130-billion Taiwanese electronics manufacturer, to suspend all operations at its Sriperumbudur plant from Dec 24, leaving nearly 1,700 employees jobless.
- TCS cheer for freshers, plans to pay more. In 1996-97, a TCS fresher was offered an entry-level salary of Rs. 1.45 lakh, which in 2013 rose to Rs. 3.16 lakh, but after adjusting for inflation, it amounts to just Rs. 1.15 lakh.
- Teradata to hire about 300 employees over the next 12-18 months for its new centre in Navi Mumbai.
- An online forum formed in Chennai — 'We are against TCS layoff' — has posted on social networks that TCS is planning to sack "25,000 non-performers by the end of February 2015".
- E-commerce hiring set for takeoff; 50,000 jobs likely in 2-3 years. In India, most e-commerce firms increased salaries by 10-40 per cent in 2013 and 2014 and are paying annual salaries of Rs. 10 lakh to Rs. 23 lakh at the entry level.
- Foxconn deadlock continues as union, management dig in. The factory has stopped production since December 22 as there was no order from customers.
- We must encourage students to look at entrepreneurship as a career option – IITM Director.
- Online furniture vendor Urban Ladder will add 1,400 employees to its workforce this year.
- The demand is set to increase to 30,000 skilled VLSI engineers per annum after 12 months.
- TCS issues pink slips: techies scramble to unionise
- Data analysis skills vital for jobs in the banking sector – Bankers.
- Govt. to use 43,000 km of optical fiber network and 6,000 railway stations across India in the skill development revolution.
- TCS says only 1% about 3000 staff will be involved in 'involuntary attrition' this year.
- Capgemini plans to recruit 20,000 in India by 2016.
- TCS to extend research scholarship programme for five years to reach over 200 additional doctoral research scholars in computer science, across India.

- BPO firm Omega Healthcare to hire 2,300 this year.
- Google India MD Rajan Anandan made in charge of S-E Asia too.

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

- Online real estate segment has witnessed a two-fold increase in the number of deals in 2014, as compared to 2013. Online portals housing.com and proptiger.com attract venture capital investments.
- Mumbai based YOU Broadband to offer most cost effective 100 Mbps connection at Rs. 1699/= for a quota of 200 GB.
- MAIT has set up a website www.maitsme.com catering to all information needs of the SMEs. It will give SMEs the opportunity to showcase their solutions to a wider audience and aims to create ample B2B opportunities within SMEs.
- Kerala State to host 5th global meet on free software on the theme “Free software for a free World”.
- Intel Corp invites six Indian companies to jointly work on its prestigious perceptual computing which uses gestures and image recognition to control a computer, helps devices see, hear and feel the user.
- Artisangilt.com, a portal dedicated to sari, holds around 19,000 products in this section.
- www.bengalurudutyfree.in offers duty-free pre-ordering service.
- Dell makes India its second research hub outside the US.
- Hyderabad to host CSI Golden Jubilee 49<sup>th</sup> Annual Convention during 12-14, Dec 2014.
- Uber -- online cab service banned in Delhi.
- Cisco showcases three ‘Made in India’ products.
- Google Online Shopping Festival (GOSF) during 10-12, Dec 2014 to feature exclusive products.
- Solar power mainframes from IBM.
- India will serve as Taiwanese networking components major D-Link’s global R&D headquarters.
- The Data Security Council of India to certify websites. Sign MoU with San Francisco-based TRUSTe.
- YouTube users can now download videos on mobile devices and store them for 48 hours.
- Google launches Adwords in Hindi.
- As part of its ‘Billion Dollar Babies’ initiative, TIE will pick 3-5 Indian start-ups (non ecommerce / services but product category) and to handhold them to become a \$1-billion firm. It also plans to take them to Silicon Valley.
- Ericsson to set up its second plant in India at Pune as a part of “Make in India”.
- Free software enthusiasts have launched Code Free for India (CoFFI), an initiative to leverage the power of free and open source software in nation-building.
- Micromax sets up an R&D centre in Beijing.
- IRCTC is among the most searched on Google.
- Tata Group will invest in future and emerging technologies in the digital and physical space – Mistry.
- IndusInd Bank has a special innovation team and was the first to launch video banking, whereby bank officials can see and talk to the customers over the phone.
- Broadcom pledges support to cable TV digitisation in India – to developing country’s first home-grown Conditional Access System (CAS) for cable television..
- Online classified portal Quikr.com , which is the business of used goods, plans to provide delivery services to its subscribers.
- Google unveils Flight search tool.
- Recently launched intelligent ATM (iATM) developed by Chennai-based Leo Prime Payment Solutions comes with a button and also will give non-fatal shock to crooks.
- New software technology known as Hotknot to transfer big files to another phone.
- Samsung, known for its phones running on Google’s Android operating system (OS), has launched its first phone on its own Tizen OS.
- Infosys creates \$250-million fund for start-ups.
- E-tailers setting up labs to innovate on customer experience.
- Yu Televentures has sold 10,000 Yureka smartphones on Amazon in just 3 seconds.
- Airtel-Cisco to launch video conferencing service.
- Pearson takes digital learning to classrooms with new mobile app – MyPedia which will cost ₹2,000 annually for a child.
- Infibeam introduces logistics platform www.shipdroid.com for online merchants.

**Books:** Brief review of books from leading publishers such as Pearson, CRC Press etc., on current interest topics are featured below. Copies of some of these books reviewed are added into the library at CSI Education Directorate.

**From College to Career: How to Make the Transition and Become a Successful Professional:** This book, From College to Career attempts to capture the essence of such career-building by focusing on several important topics, ranging all the way from initial job-hunting and the placement process to communication skills and social responsibility. Besides presenting some of the established concepts and viewpoints on these topics, appropriate examples and tools have been provided to embed these ideas into one's career planning. The broad content of the book include: Part I Getting that job dealing with concepts such as Selection Process for Job; Preparing Your Résumé ; Preliminary Aptitude Tests; Group Discussions; Job Interviews; Part II Things that you should know before you start your career dealing with concepts such as Vision; Time Management; Work Hard, Work Smart; Professionalism; Part III Communication basics covering concepts such as Communication in the Workplace; Spoken Communication; Body Language; Listening; Part IV Winning attitude equals successful career explaining Lifelong Learning; Diversity Awareness; Teamwork; Emotional Intelligence; Performance Expectations Management; Understanding Cultural Issues; and Part V Etiquette at workplace elaborating on How to Conduct Effective Meetings; Phone Communication; Email; English Language Skills; and ending with Some Final Words of wisdom. This book will be useful to all students aspiring to get in to job market and grow in their work. Author: Gopalswamy Ramesh. Published by: Pearson Education ([www.pearsoned.co.in](http://www.pearsoned.co.in)). Pages: 248, paperback, Price: INR 299/=. A copy of this book is being added in the CSI Library at CSI ED, Chennai.

**Organizational Behaviour :Text and Cases:** The second edition of Organizational Behaviour,Text and Cases offers students a concise but broad coverage of the theories that determine behaviour in organizations. The symbolic relationship between effective organizational behaviour and the effective functioning of an organization is established through a clear and lucid style of presentation. This book attempts to unfold human behaviour at four levels starting from the individual processes and moving on to the interpersonal, organizational, and change processes with the objective of equipping students with the necessary concepts, tools, and techniques for understanding behaviour in organizations. It addresses the specific needs of Indian students and managers by successfully blending the best global OB practices with an in-depth coverage of the Indian environment. The salient features of the book include: Classroom-tested case studies that relate the theories discussed in chapters to actual incidents from the workplace; Several examples that highlight the best practices in the industry from companies like BPCI, HCL Technologies, Wipro, Infosys, and SAP; Caselets that focus on behavioural issues in organizations; Exercises that help students gain further insight into their behavioural dispositions; Field projects that involve students in data collection and analysis; Marginal definitions that summarize crucial points and serve as a quick reference; and A companion Web site featuring multiple choice questions, learning objectives, an instructor's manual, and PowerPoint lecture slides that enable effective presentation of concepts. Author: Kavita Singh, Published by: Pearson Education ([www.pearsoned.co.in](http://www.pearsoned.co.in)). Pages: 592, Price: INR 525/=.

**Services Marketing: Text and Cases:** The second edition of this book takes a leap forward to develop a strategic perspective to the service marketing framework. Extensively revised and restructured, this edition includes five additional chapters aimed at widening the reader's horizons for a richer learning experience. The book begins with an initiation into the field of services and then develops an appreciation of the service marketing system. The focus is then directed at service strategy and the creation of sustainable differentiation. The book finally looks at the management of operational issues such as quality, demand matching, recovery and empowerment. The broad contents include: Field of Services: The Service Economy; Nature of Services; Service Product and Pricing; Service Promotion and Distribution; Processes in Services; People in Services; Physical Evidence; The Service System; Service Customer Behaviour; Service Vision and Strategy; Market Analysis and Commoditization; Sustainable Differentiation; Service Quality; Branding Services; Demand and Supply Management; Service Recovery and Empowerment; and Customer Relationships. The features of the book include: Class Interactive, a newly added feature to stimulate classroom discussion; Restructured content and newly added topics to facilitate ease in understanding the subject; Additional end-of-chapter mini-cases based on contemporary topics like services product, pricing and process people, to name a few; Two new book-end cases on current market scenarios; Focus on operational issues like service quality and management of demand and supply; and End-of-chapter review questions and practical exercises to help readers understand concepts better In the context of services based economy this text book is an essential reading to anyone associated with the services industry. This book also presents a number of case studies to highlight the various approaches in service industry. Author: Verma, Published by: Pearson Education ([www.pearsoned.co.in](http://www.pearsoned.co.in)), Pages: 676, Price: INR 599/=.

**Big Data Analytics Beyond Hadoop: Real-Time Applications with Storm, Spark, and More Hadoop Alternatives:** When most technical professionals think of Big Data analytics today, they think of Hadoop. But there are many cutting-edge applications that Hadoop isn't well suited for, especially real-time analytics and contexts requiring the use of iterative machine learning algorithms. Fortunately, several powerful new technologies have been developed specifically for use cases such as these. Big Data Analytics Beyond Hadoop is the first guide specifically designed to introduce these technologies and demonstrate their use in detail. An indispensable resource for data scientists and others who must scale traditional analytics tools and applications to Big Data, it illuminates these new alternatives at every level, from architecture all the way down to code. Dr. Vijay Srinivas Agneeswaran shows how to evaluate and choose the right tools, and then reengineer your solutions and products to work far more effectively in Big Data environments. Agneeswaran explains the Berkeley Data Analysis Stack (BDAS) in detail, including its motivation, design, architecture, Mesos cluster

management, and the analysis of both performance and accuracy. He presents realistic use cases and up-to-date example code for: Spark, the next generation in-memory computing technology from UC Berkeley; Storm, the parallel real-time Big Data analytics technology from Twitter; and GraphLab, the next-generation graph processing paradigm from CMU and the University of Washington (with comparisons to alternatives such as Pregel and Piccolo). The author offers architectural and design guidance and code sketches for scaling machine learning algorithms to Big Data, and then realizing them in real-time. He concludes by previewing emerging trends, including real-time video analytics, SDNs, and even Big Data governance, security, and privacy issues. To position you for tomorrow's advances, he identifies intriguing startups and new research possibilities, including BDAS extensions and cutting-edge model-driven analytics. Author: Vijay Agneeswaran, Published by: Pearson Education ([www.pearsoned.co.in](http://www.pearsoned.co.in)), Pages: 240, Price: INR 350/=.

**Data Just Right: Introduction to Large-Scale Data & Analytics:** This book is invaluable to every Big Data decision-maker, implementer, and strategist. The author, former Google engineer and hacker -- Michael Manoochchri organized this book around today's key Big Data use cases, showing how they can be best addressed by combining technologies in hybrid solutions. Drawing on his own extensive experience, He presents the technical detail needed to implement each solution, and best practices the reader can apply to any Big Data project. The book covers: Four Rules for Data Success; Hosting and Sharing Terabytes of Raw Data; Building a NoSQL-Based Web App to Collect Crowd-Sourced Data; Strategies for Dealing with Data Silos; Using Hadoop, Hive, and Shark to Ask Questions about Large Datasets; Building a Data Dashboard with Google BigQuery; Visualization Strategies for Exploring Large Dataset; Putting It Together: MapReduce Data Pipelines; Building Data Transformation Workflows with Pig and Cascading; Building a Data Classification System with Mahout; Using R with Large Datasets; Building Analytics Workflows Using Python and Pandas; When to Build, When to Buy, When to Outsource; and The Future: Trends in Data Technology. The salient features of this book include: Practical, realistic guide to making Big Data work; Real use cases, up-to-date examples, actual code, detailed solutions; Providing all the details tech-savvy readers need to build high-value solutions; Highlighting cutting-edge approaches to managing massive datasets, visualizing data, building data pipelines and dashboards, and working with real-time data; and Elaborating techniques using Hadoop, Hive, Pig, Tableau, Google Bigquery, and other pioneering tools. Author: Michael Manoochchri. Published by: Pearson Education ([www.pearsoned.co.in](http://www.pearsoned.co.in)), Pages: 248, Price: INR 325/=.

**R for Everyone: Advanced Analytics and Graphics:** Using the free, open source R language, scientists, financial analysts, public policy professionals, and programmers can build powerful statistical models capable of answering many of their most challenging questions. But, for non-statisticians, R can be difficult to learn—and most books on the subject assume far too much knowledge to help the non-statistician. R for Everyone is the solution. Drawing on his extensive experience teaching new users through the New York City R User Group, professional statistician Jared Lander has written the perfect R tutorial for everyone who's new to statistical programming and modeling. The features of this include: Based on a course on R and Big Data taught by the author at Columbia; Designed from the ground up to help readers quickly overcome R's learning curve; Packed with hands-on practice opportunities and realistic, downloadable code examples; By an author with unsurpassed experience teaching statistical programming and modeling to novices; and For every potential R user: programmers, data scientists, DBAs, marketers, quants, scientists, policymakers, and many others. Author: Jared P Lander. , Published by: Pearson Education ([www.pearsoned.co.in](http://www.pearsoned.co.in)), Pages: 472, Price: INR 550/=.

**The Internet of Things in the Cloud: A Middleware Perspective:** This book provides a comprehensive introduction to the IoT and its development worldwide by offering a holistic view of the technologies and applications of the entire IoT spectrum. It gives a panoramic view of the IoT landscape—focusing on the overall technological architecture and design of a tentatively unified IoT framework underpinned by Cloud computing from a middleware perspective. Organized into three sections, it: Describes the many facets of Internet of Things—including the four pillars of IoT and the three layer value chain of IoT; Focuses on middleware, the glue and building blocks of a holistic IoT system on every layer of the architecture; and Explores Cloud computing and IoT as well as their synergy based on the common background of distributed processing. This book is based on the author's two previous bestselling books (in Chinese) on IoT and Cloud computing and more than two decades of hands-on software/middleware programming and architecting experience at organizations such as the Oak Ridge National Laboratory, IBM, BEA Systems, and Silicon Valley startup Doubletwist. Tapping into this wealth of knowledge, the book categorizes the many facets of the IoT and proposes a number of paradigms and classifications about Internet of Things' mass and niche markets and technologies. Author: Honbo Zhou. Published by: CRC Press ([www.crcpress.com](http://www.crcpress.com)). Pages: 391 & 107 B/W illus. Price: USD 66.99/=.

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