

## Upcoming Technology in Computer Science in 2016

### Homomorphic Encryption

The concern that data is insecure is one of the factors keeping the cloud computing movement from exploding even further than it already has done. Our current encryption technologies leave us either to trust our cloud service provider fully, or to encrypt our data before moving it to the cloud. While more secure, the problem with the latter option is that encrypted documents can't be searched until they're decrypted. This is where homomorphic encryption comes into play. Homomorphic encryption is a method whereby encrypted files could be categorized, and mined, while still remaining in an encrypted state. The concept has been around for years, but real strides have been made over the last few years which may soon make homomorphic encryption a reality.

### Interesting Facts about Computer Science

1. Only 8% of the world's currency is physical money, the rest only exists on computers.
2. There was a computer worm that would gain access to Windows XP systems, download a patch from Microsoft to close the vulnerability that it used to infect the system, attempt to delete the infamous Blaster worm (if present) from the system, then delete itself.
3. The worst breach of U.S. military computers in history happened when someone picked up a memory stick (infected by a foreign intelligence agency) they found in the parking lot and plugged it into their computer, which was attached to United States Central Command.
4. Investigators missed incriminating Google searches done on Casey Anthony's computer – including “fool-proof suffocation [sic]” – because they checked her Internet Explorer history, but ignored Firefox.
5. In 1978, Apple Corps (owned by The Beatles) sued Apple Computer for trademark infringement. The case settled for \$80,000 along with the condition that Apple Computer should not enter the music business, and Apple Corps agreed not to enter the computer business.
6. 40-55% of all Wikipedia vandalism is caught by a single computer program with 90% accuracy
7. A wow player “Bradster” has 36 wow accounts and conducts raids with himself on 11 computers
8. Three students from a school in Nevada had installed keystroke loggers on their teachers' computers to intercept the teachers' usernames and passwords, and then charged other students up to \$300 to hack in and increase their grades.
9. In 1936, the Russians made a computer that ran on water.
10. In July, after receiving a warning from the FBI on his PC, Washington resident Jay Matthew Riley turned himself into police for possessing child pornography. The warning was fake and generated by a worm that had infected his computer.

## Seshadripuram Educational Trust



## Seshadripuram Academy of Business Studies

(Affiliated to Bangalore University)

K S Town, Bangalore – 60

### Tech Savvy - 2016

NEWS DESK 2015-16

As the coordinator of Computer Forum – Tech Savvy in Seshadripuram Academy of Business Studies. I would like to welcome you to another exciting academic year of Computer Forum activities. The Computer Forum continues to offer many opportunities for our faculty, students, and industrial partners to work together to advance research and focus on real-life problems such as computer security, with an ultimate goal to place our students into highly regarded high-tech companies. The Computer Forum helps Stanford maintain its world-class reputation in computer science and sponsors a variety of activities, including internships, research funding, jobs, opportunities to collaborate, and student support. We continue to offer many opportunities for our faculty, students, and industrial partners to interact. Following are some highlights for the 2015-2016 academic year.

- ❖ Quiz Competition
- ❖ Seminars
- ❖ Paper Presentation
- ❖ Code breaking event
- ❖ Bugs finding event

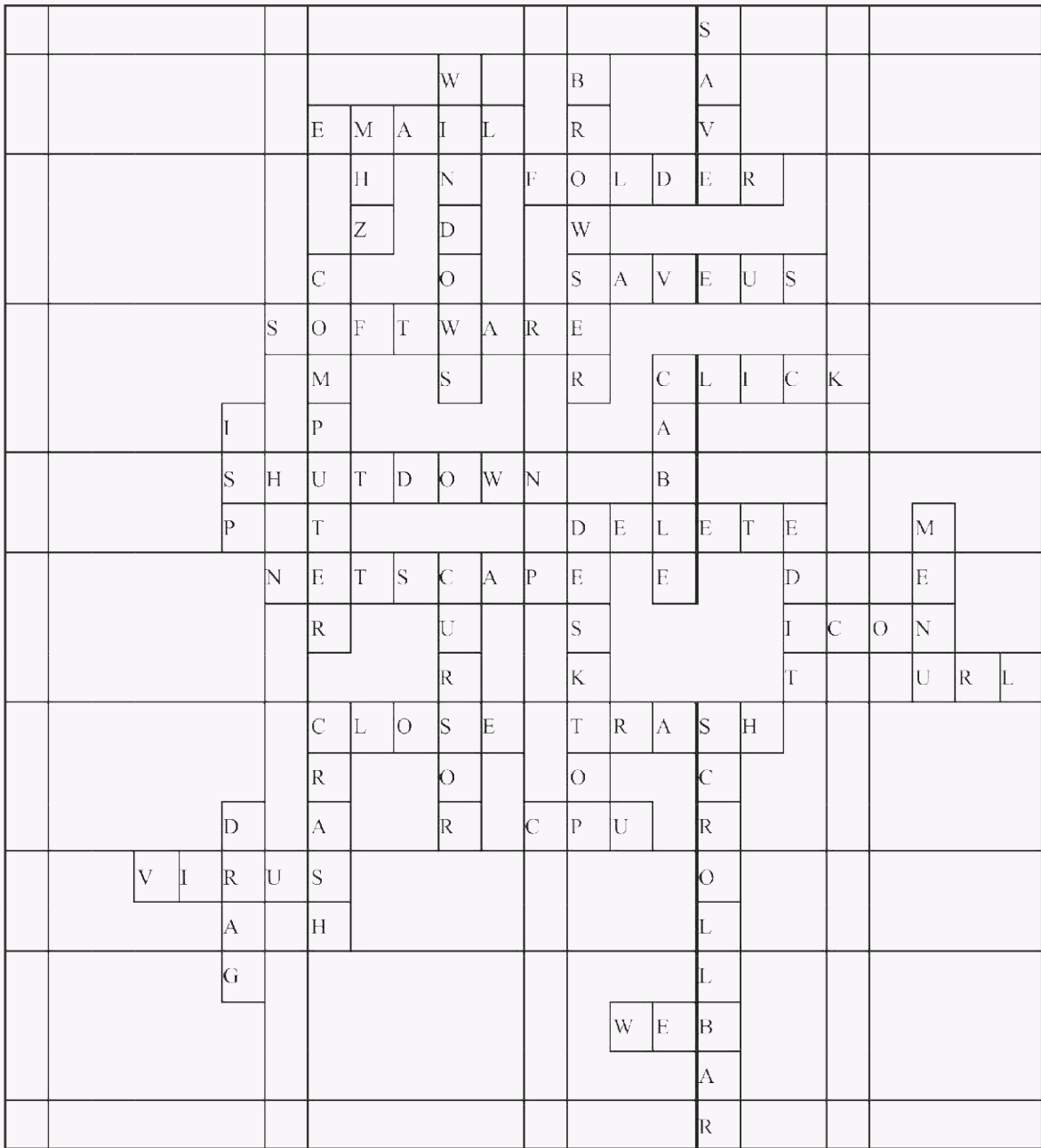
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List of Top Ten Programming Languages and its Creators

1) Java - James Gosling	6) Perl - Larry Wall
2) C - Dennis Ritchie	7) JavaScript - Brendan Eich
3) C++ - Bjarne Stroustrup	8) Ruby - Yukihiro Matsumoto
4) Python - Guido van Rossum	9) Lisp - John McCarthy
5) PHP - Rasmus Lerdorf	10) Pascal - Niklaus Wirth

Fun with Computers:

Computer Terms: Try yourself with clues given below:



Across

Down

- \* CTRL + R or F5 [Refresh the active window]
- \* CTRL + V or SHIFT + INSERT [Paste the selected item]
- \* CTRL + X [Cut the selected item]
- \* CTRL + Y [Redo an action]
- \* CTRL + Z [Undo an action]
- \* CTRL ++ or CTRL + – [Zoom in or out of a large NUMBER of items, like apps pinned to the Start screen]
- \* CTRL + mouse scroll wheel [Change the size of desktop icons or zoom in or out of a large NUMBER of items, like apps pinned to the Start screen]
- \* CTRL + RIGHT ARROW [Move the cursor to the beginning of the next word]
- \* CTRL + LEFT ARROW [Move the cursor to the beginning of the previous word]
- \* CTRL + DOWN ARROW [Move the cursor to the beginning of the next paragraph]
- \* CTRL + UP ARROW [Move the cursor to the beginning of the previous paragraph]
- \* CTRL + ALT + TAB [Use the arrow keys to switch between all open apps]
- \* CTRL + ARROW + SPACEBAR [Select multiple individual items in a window or on the desktop]
- \* CTRL + SHIFT + ARROW [Select a block of text]
- \* CTRL + ESC [Open the Start screen]
- \* CTRL + SHIFT + ESC [Open Task Manager]
- \* CTRL + SHIFT [Switch the keyboard layout when multiple keyboard layouts are available]
- \* CTRL + SPACEBAR [Turn the Chinese input method editor (IME) on or off]
- \* SHIFT + F10 [Display the shortcut menu for the selected item]
- \* SHIFT + ARROW [Select more than one item in a window or on the desktop, or select text within a document]
- \* SHIFT + DELETE [Delete the selected item without moving it to the Recycle Bin first]
- \* RIGHT ARROW [Open the next menu to the right, or open a submenu]
- \* LEFT ARROW [Open the next menu to the left, or close a submenu]
- \* ESC [Stop or leave the current task]

27. What is the expanded form of CMOS ?  
 Ans : Complementary Metal Oxide Semoconductor
28. Who is Netizen ?  
 Ans : Net Citizen (Citizen who uses internet)
29. What is Scareware ?  
 Ans : Fake antivirus softwares
30. When was the first smart phone launched?  
 Ans : 1992 (IBM Simon)

### Let's kick-start the list with the most common shortcuts that you'll often use

- \* F1 [Display Help]
- \* F2 [Rename the selected item]
- \* F3 [Search for a file or folder]
- \* F4 [Display the address bar list in File Explorer]
- \* F5 [Refresh the active window]
- \* F6 [Cycle through screen elements in a window or on the desktop]
- \* F10 [Activate the Menu bar in the active app]
- \* ALT + F4 [Close the active item, or exit the active app]
- \* ALT + ESC [Cycle through items in the order in which they were opened]
- \* ALT + Underlined Letter in menus and dialog box options [Perform the command for that letter]
- \* ALT + ENTER [Display properties for the selected item]
- \* ALT + SPACEBAR [Open the shortcut menu for the active window]
- \* ALT + LEFTARROW [Back]
- \* ALT + RIGHTARROW [Forward]
- \* ALT + PAGE UP [Move up one screen]
- \* ALT + PAGE DOWN [Move down one screen]
- \* ALT + TAB [Switch between open apps (except desktop apps)]
- \* CTRL + F4 [Close the active document (in apps that allow you to have multiple documents open simultaneously)]
- \* CTRL + A [Select all items in a document or window]
- \* CTRL + C or CTRL + INSERT [Copy the selected item]
- \* CTRL + D / DELETE [DELETE the selected item and move it to the Recycle Bin]

- 4 When you send a letter to someone
- 6 Allows you to organize files and other folders.
- 8 Give the file a name and/or store the file in a certain place.
- 9 Instructions that tell the computer what to do.
- 10 To select an object by pressing the mouse button when the cursor is pointing to the required menu option, icon or hypertext link.
- 12 To quit all applications and turn off the computer.
- 13 To remove an item of data from a file or to remove a file from the disk.
- 16 One of the major browsers, that is used on the Internet.
- 18 In a graphical user interface (GUI), a small, pictorial, on screen representation of an object, such as a document, program, folder or disk drive.
- 19 Abbreviation for Uniform Resource Locator, which is an address on the World Wide Web.
- 20 To close a window that has been opened for viewing and / or editing.
- 21 Place where you put files and folders that you want to delete or get rid of.
- 24 the main chip on the computer that makes everything go.
- 25 A file or program that can be uploaded to your computer from the Internet or disk. This file or program is uploaded without your knowledge and is intended to do damage to your computer.
- 26 WWW stands for the World Wide
- 1 Tell the computer to create a file on disk that has the information you've put into the document (usually typing).
- 2 The most widely used operating system for personal computers from Microsoft.
- 3 A program that you use to view pages on the Internet.
- 5 This stands for MegaHertz.
- 7 A general-purpose machine that processes data according to a set of instructions that are stored internally either temporarily or permanently.
- 10 This kind of Internet connection is much faster than dial up Internet access. You can also watch tv on it.
- 11 Abbreviation for Internet Service Provider
- 13 An on-screen representation of a desktop such as used in the Macintosh and Windows operating systems.
- 14 To make a change to existing data.
- 15 Displays a list of commands, some with images next to them.
- 17 The name of the arrow (or other shape) that tracks across the screen as you move the mouse (or other pointing device) around.
- 20 Your computer or application no longer works correctly and so you 'loose' all the work you've done since the last time you saved.
- 22 Allows you to move around through your document.
- 23 To move an object on screen in which its complete movement is visible from starting location to destination.



Latest Technology Inventions

Analysts predict that the latest technology inventions in cloud computing will significantly influence how we use our computers and mobile devices. Cloud computing is where tasks and file storage on your computer are performed and stored elsewhere. By using an internet connection you can connect to a service that has the architecture, infrastructure and software to manage any task or storage requirement at less cost. The advantages of cloud computing is that it eliminates the difficulty and expense of maintaining, upgrading and scaling your own computer hardware and software while increasing efficiency, speed and resources. Your computer's processing speed, memory capacity, software applications and maintenance requirements are minimized. You could store and access any size or type of file, play games, use or develop applications, render videos, word process, make scientific calculations, or anything you want, by simply using a smart phone. As a comparison, let's say you had to generate your own electricity. You would need to maintain, upgrade and scale these resources as required to meet your demands. This would be expensive and time consuming. Cloud computing could be compared to how a utility provides electricity. It has the architecture, infrastructure, applications, expertise and resources to generate this service for you. You just connect to their grid. Microsoft, IBM and Google are some of the companies that are investing heavily into the research and development of cloud technology

Computer Virus: a piece of code which is capable of copying itself and typically has a detrimental effect, such as corrupting the system or destroying data.

- 1. ILOVEYOU
- 2. Code Red
- 3. Melissa
- 4. Sasser
- 5. Zeus
- 6. Conficker
- 7. Stuxnet
- 8. Mydoom
- 9. CryptoLocker
- 10. Flashback

Computer Antivirus: Antivirus or anti-virus software (often abbreviated as AV), sometimes known as anti-malware software, is computer software used to prevent, detect and remove malicious software. Antivirus software was originally developed to detect and remove computerviruses, hence the name.

- 11. Kaspersky
- 12. Symantec (Norton)
- 13. AVG
- 14. ESET
- 15. Microsoft Security Essentials
- 16. McAfee
- 17. BitDefender
- 18. Avast Software
- 19. Avira
- 20. Panda Security

Latest Gadget to turn departed loved ones into trees:

Instead of keeping a departed loved one's ashes in an urn over the fireplace, why not breathe new life into them, in the form of a tree that can sit in your living room or outside on your porch? A new gadget helps you nurture life from ashes, and regardless of how green your thumbs are, it offers a way to keep loved ones close after they die.

The Bios Incube, created by the company Bios Urn, is an incubator that monitors and cultivates trees from human ashes in people's homes. The company says the invention allows people to return the deceased to life through nature, creating a living reminder of that person.

"When someone dies, they physically die, but the people who are around the deceased person still remember," said Roger Moliné, co-founder of Bios Urn.

Test Your Computer Knowledge:

- |  |  |
|--|--|
| 1. Who invented Compact Disc?<br>Ans : James T Russel  | 14. Mows is a type of mouse for ..... people<br>Ans : Physically handicapped people        |
| 2. Which day is celebrated as world Computer Literacy Day?<br>Ans : December 2                   | 15. Expand RDBMS?<br>Ans : Relational Data Base Management System                          |
| 3. Who invented Java?<br>Ans : James A Gosling   | 16. Difference engine was developed by....<br>Ans : Charles Babbage                        |
| 4. Longhorn was the code name of?<br>Ans : Windows Vista   | 17. Orkut.com is now owned by .....<br>Ans : Google  |
| 5. Who is known as the Human Computer of India ?<br>Ans : Shakunthala Devi                       | 18. World's first microprocessor is .....<br>Ans : Intel 4004                              |
| 6. What is mean by Liveware?<br>Ans : People who work with the computer                          | 19. What is SQL?<br>Ans : Structured Query Language  |
| 7. Which computer engineer got Nobel Prize for literature in 2003 ?<br>J.M. Coetzee              | 20. What is the expansion of COBOL?<br>Ans : Common Business Oriented Language             |
| 8. 'Weaving The Web' was written by.....<br>Ans : Tim Burners Lee                                | 21. What is the expansion of SMS?<br>Ans : Short Message Service                           |
| 9. What is Beta Test?<br>Ans : Trial test of a computer or software before the commercial launch | 22. Which IT company's nickname is ' The Big Blue'?<br>Ans : IBM                           |
| 10. 'Do no evil' is tag line of .....<br>Ans : Google  | 23. What is the full form of IEEE?<br>Ans : Institute of Electric and Electronic Engineers |
| 11. First Indian cinema released through internet is .....<br>Ans : Vivah                        | 24. Who developed COBOL?<br>Ans : Grace Murry Hopper                                       |
| 12. Rediff.com was founded by.....<br>Ans : Ajith Balakrishnan and Manish Agarwal                | 25. Email was developed by.....<br>Ans : Raymond Samuel Tomlinson (Ray Tomlinson)          |
| 13. What is the extension of PDF?<br>Ans : Portable document format                              | 26. Green dam is .....<br>Ans : Web Filter   |