



In This Issue

- PERCEPTUAL COMPUTING
- AIR MOUSE GLOVE
- ARE MACS VIRUS PROOF?
- CHIPOLO
- IRCTC TICKET BOOKING MADE SIMPLER
- Ten Strategic Tech Trends For 2014
- GOOGLE ROBOT ARMY
- APP TO REMEMBER DREAMS

EDITORIAL - Fests in colleges

As an engineering student, the candidate has to be involved in more and some more studies. In order to learn something more apart from the theoretical knowledge, the students can enhance their knowledge by participating in technical and cultural fests organized by colleges.

What is a Fest?

As every religion has festivals, Engineering colleges have festivals called fests to rejoice and refresh. There are basically 2 types of fests. Cultural and technical. Cultural fests contains events with main target of show casing inner talents of students, talents which are not related to curriculum. Singing, dancing are some of them.

Technical fests contains events related to technical (subject, research). The main aim of organizing such fests is to award rising talents and encourage innovative ideas of students.

Importance:

College life is one of the most exciting and important phases in anyone's life. During this period, a student comes across several experiences, and learns new things. A college festival is not just for fun, it adds value to a student's learning experience. In fact you have to say that importance of Cultural and Technical Events in college equals the importance of studies.

Purpose:

Reputed engineering colleges in India keep on organizing college festivals every now and then. Have you ever realized the importance of these festivals? The purpose of doing so is multiple. Firstly, it helps the academic institutions to bring together the students from across the country. Secondly, these college fests promote innovative ideas and allow students to share their knowledge and ideas with other students. Thirdly, attending these festivals give information on the different fields of study. Sports events, quizzes, seminars, music and dance are the part of most of the college fests.

Our appeal to students

Fests in colleges are one of the main sources of enjoyment and refreshment. They improve our skills in many ways. Seminars, Paper presentation and poster presentation events are a source of innovative ideas originated in brains of our budding engineers. Quiz events makes us to know many things and increases competitive skills in us. sport events, music events, dance events increases competitive and challenging behaviour.

So, Techgyan team appeals our readers to participate in maximum number of fests, (conducted by popular colleges) replenish creativity in our brains and come into lime light.

-Gouthami.M,

Student coordinator, Techgyan

Perceptual Computing

-your next user interface

Keyboards and mice are great when you're typing a report or entering data in a spreadsheet, but next-generation applications are much more likely to be controlled by voice or gesture input. We've already seen this to some extent in Apple's Siri, Google Now, Microsoft Kinect.



Where we haven't seen much of this, until now, is with your standard PC applications. Microsoft offers Kinect for Windows and an SDK, but we really haven't seen extensive use of it yet. Leap Motion has been showing a camera with applications coming soon. Now Intel is trying to encourage this market by offering developers a free Perceptual Computing SDK 2013, and by selling a \$149 Perceptual Computing Kit that combines a Creative Interactive Gesture Camera with the SDK. It's still clearly designed for developers instead of end-users, it is certainly intriguing.

For now the big use of motion sensing seems to be for games. But Intel, Microsoft, and Leap Motion all seem convinced that this kind of interface can improve various applications and the potential is certainly there. It seems to me that in order to work, the ideal interface of the future must combine voice recognition, facial recognition, gesture, depth, and motion. That's a harder challenge for developers today, but I'm confident the possibilities are good.

-B. Sai Aravind

Air Mouse glove

-wire less mouse as glove

Also called Ion Ergonomic Air Mouse Glove

We have seen all sorts of input devices that can control your computer remotely, however, if you're looking for something different to remotely control your computer, today we have the right device for you.

This latest input device comes from Ion Wireless,



and unlike other input devices, this device is worn on your hand. Ion Ergonomic Air Mouse Glove comes with three buttons that are placed on your index finger, and each of these buttons is pressed with your thumb. There are two mouse buttons, and a pause button that temporarily pauses the entire device, allowing you to move your hand without moving your mouse. Ion Ergonomic Air Mouse Glove is recharged via USB port, and it can control your computer wirelessly from up to 35 feet distance. Ion Ergonomic Air Mouse Glove is one unusual device, however, and it's great if you want to control your PC remotely, and as for the price, this device is priced at \$79.99.

-K. Abhinay

Are MACs Virus proof!?

Yes, Macs DO get viruses. Most people are led to believe that Macs are virus proof. This myth was spread due to two factors:

1. The Mac OS is structurally and architecturally different from Windows. Thus, viruses that affect Windows computers won't affect Macs
2. There are far fewer Macs than there are Windows based PCs.

These two factors combined with some great marketing by apple, led many to believe that Macs are indeed virus proof. But

that isn't the case.



there are quite a few viruses for the Mac OS. The first ever reported virus for Mac was back in 1982.

Since then, there have been the INIT-29-B virus, HyperCard HC-9507, Hong Kong virus, OSX/Leap-A, OSX.Macarena, the trojan horse Apple and also the most recent FLASHBACK that affected 600,000 machines and the "pint-sized" Trojan which basically allowed unhindered access to infected machines armed with basic, inbound only firewalls.

-B. Namrata Yadav

Chipolo

-nothing is lost

Did you know that on average we spend 10 minutes a day looking for things we own but cannot find? Connect Chipolo with your smartphone and attach it to your item. Whenever you're searching for stuff you lost, just use the app and it will help you find it.



The device connects with your phone via Bluetooth and notifies you whenever your item is in range or goes out of range. The app shows you the tags around you on your phone and you can press the horn on your phone to make the tags beep. This sound helps us to know where your item is present. Chipolo also includes a temperature sensor to determine the temperature. It also saves the location of your tags on maps and can show you the last saved location of the tags on the map along with the temperature.

The device uses Bluetooth Low Energy connection for pairing and lasts up to 6 months which is huge. Also, the device comes with replaceable battery. Once you pair Chipolo with your phone, nobody else can access your device or your data. Chipolo includes a better antenna system to cover a wider area of up to 60 meters. chipolo app is currently available for Android and iPhone and will be available on Windows Phone soon.

-Kaushik Vecha

IRCTC ticket booking made simpler

The IRCTC e-wallet scheme is expected to save considerable time as the customer remains on IRCTC server during the transaction whereas in current system he is directed to bank server for payment and then again redirected to IRCTC site.



Indian Railway Catering and Tourism Corporation (IRCTC) has been making various efforts to make ticket reservation/cancellation process easier for people. IRCTC has now taken one step further in this direction as it launches a new e-wallet scheme for users. The new initiative is a 'rolling deposit scheme' wherein users have an account with the IRCTC and have a sum already deposited that can be used for future tickets bookings. With e-wallet, process of booking tickets is expected to become less time-consuming. According to an IRCTC official, the current system takes a relatively long time as the customer is directed to a bank's service, from IRCTC service, to make the payment and then again redirected to the IRCTC website. Only PAN card verified users can register for the e-wallet scheme. In case of cancelling a ticket, IRCTC will credit the refund to the e-Wallet account next day. The officials reveal the new initiative has received good response since its launch in the second week of this month. So far, about 4,000 registrations have been made for the IRCTC e-wallet scheme. you have never seen.

-Sanjana

Ten Strategic Tech Trends For 2014

Surveying the IT landscape, Gartner analysts take a look at up-and-coming technology trends. Strategic solution providers must factor these tech trends to plan their future business growth strategies.

1. 3D printing: 3D printing is a process of making a three-dimensional solid object of virtually any shape from a digital model. Shipments of 3D printers are expected to grow 75 percent in 2014.

<http://qz.com/106483/3d-printing-will-explode-in-2014-thanks-to-the-expiration-of-key-patents/>

2. Smart machines: Through 2020, the smart machine era will blossom with a proliferation of contextually aware, intelligent personal assistants, smart advisors (such as IBM Watson), advanced global industrial systems and public availability of early examples of autonomous vehicles.

<http://www.techzone360.com/topics/techzone/articles/2013/10/09/356203-gartner-says-3d-printing-smart-machines-among-major.htm>

3. Web-scale IT: Web-scale IT is a pattern of global-class computing that delivers the capabilities of large cloud service providers within an enterprise IT setting by rethinking positions across several dimensions.

<https://www.gartner.com/doc/2642916>

4. Software-defined anything :

<https://www.avaya.com/usa/perspectives/articles/gartner-mobility-software-defined-anything-among-top-tech-trends-for-2014>

5. The era of personal cloud:

<http://www.gartner.com/newsroom/id/1947315>

6. Cloud/client architecture:

<https://www.gartner.com/doc/1604017>

7. Hybrid Cloud and IT as Service Broker :

<http://www.gartner.com/technology/research/hybrid-cloud/>

8. The Internet of Everything:

<http://www.gartner.com/newsroom/id/2621015>

9. Mobile Apps and Applications:

<http://techcrunch.com/2014/01/03/mobile-app-marketing-costs-hit-record-highs-in-2013/>

10. Mobile Device Diversity and Management :

<http://public.dhe.ibm.com/common/ssi/ecm/en/tiw14127usen/TIW14127USEN.PDF>

-Harsha

Google Robot Army

-revolutionary in war fields

The secret project which google was working on is slowly coming into the limelight. : Google acquired functional robot maker Boston Dynamics for an undisclosed amount. This year alone, Google has acquired no fewer than eight robotics firms.

Boston Dynamics makes some of the most successful functional robots on the planet. It's PETMAN humanoid robot is a fully-articulated humanoid — although it's designed to wear and test chemical protection gear, not roam around independently. Google's core business might be search and Android but the company is not averse to



"moonshot" projects — self-driving vehicles, Google Fiber, bringing high-speed Internet to off-the-grid areas with balloons, and even Google Glass are examples of Google flexing its wallet in an effort to push technology into areas that aren't part of its bread-and-butter businesses. Google is actively trying to create the future.

-B.Sai Srujan, Sowmya

An App to remember your dreams

An app that helps people record, remember and analyse their dreams has been developed. Called Shadow, it looks like an alarm clock but works differently.



It wakes up users over a five- to 30-minute period of escalating sounds. The slow, gradual call is intended to preserve a state in which people can more easily recall their dreams. As soon as the user turns off the alarm, a microphone setting turns on, and users can recount their dreams, which the app will transcribe into text.

Users can type, speak or answer questions to record their dreams. "If you're really struggling to remember what you dreamed, you can opt to answer a series of 5-10 questions designed to jog your memory. The whole process takes less than five minutes," its makers said on Kickstarter. Shadow visualises the users' sleep and dream patterns, and identifies common themes. Using dream content of other users, it turns these symbols and experiences into insights.

-T.Shanthi Priya, Ravi Teja

Team TECHGYAN

Student co-ordinators

MOUNICA.T(4/4 CSE A) JAGADISH(4/4 CSE B)

P.SANJANA(3/4 CSE A) S. SRI HARSHA(3/4 CSE B)

GOWTHAMI.M(2/4 CSE A) SAI VISHNU(2/4 CSE B)

Faculty co-ordinator

P.Geeta, Asst.Prof, CSE

Send your articles related to computer science to the email id:

techgyanvce@gmail.com