

DIGIT-ALL

Dept. of Computer Science and Engineering,
Gandhi Institute For Technology Bhubaneswar

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DIGIT-ALL

THE E-MAGAZINE, EXPLORES THE TECHNICAL SKILLS OF STUDENTS & FACULTIES. THE MAGAZINE HAS ARTICLES ON LATEST TECHNOLOGIES, CARTOONS, QUIZZES AND MANY MORE FUN FACTS.

EDITORS:

Prof. Sitanath Biswas (Faculty)

Ms. Priyanka Singh Paichha (Student)

Mr. Deepak Kumar (Student)

Vision of the Department.

To produce the professionals of highest grade, bearing the ability to face the challenges posed by latest computing paradigms, founded by intuitive quality of education and driven by culture of critical thinking and creativity, towards the betterment of humankind.

Mission of the Department.

To Advance knowledge of computing and educate students in major paradigms of computer science and to create a distinctive culture of research and innovation among the budding engineers with collaboration of faculties, technocrats, funding agencies and experts from other premier institutes for generating a pool of professionals and eco-preneurs with the ability to address the Industry and social Problems.

PEOs of the Department.

PEO 1: To gain adequate mathematical, computing and engineering principles in order to advance in professional career or obtain better response in higher studies platforms.

PEO 2: To foster the ability to analyze real life problems, perform required research and design computing systems, in accordance to its solutions that are technically sound, economically viable and socially admired and adaptable.

PEO 3: Will have ability to exhibit professionalism, technical skills, communication skills, team work and humanitarian skills in their profession and adapt to current changes by inculcating habit of lifelong learning.

From Dean Research's desk:



Dear Readers,

Greetings from Department of Computer Science & Engineering!

As a Department of Computer Science & Engineering, We have always strived to provide a well rounded curriculum and training to our students and prepare them in order to face the challenges in their professional life after they graduate from here. Apart from conducting regular academic curriculum, various student driven initiatives, ensures personality development of students at GIFT. One of such initiatives is DIGIT-ALL.

DIGIT-ALL has helped bringing out the hidden treasures within the students as well as the faculty members by a way helping them improve their skill, knowledge and understanding.

I on behalf of the whole fraternity of the Department of C.S.E, take this opportunity to thank and congratulate you for making this a success story and as well expect that all of us will put an effort to keep the wheel running.

Thanks & Regards,

Prof. (Dr) Sujata Dash

Dean Research

Gandhi Institute For Technology, Bhubaneswar.

FROM THE *Editor's Desk*



Dear Readers,

With a jubilated feeling, I am welcoming you to the second issue of the second volume. The journey so far has been tricky but as well as encouraging where we got the co-ordination from many a people to have a simpler path.

This has been a happening year for the department with the formation of our society "Information Science and Application Society". With this inception, we all hope to get even more contributions from your side to help the society evolve as well.

We had an exceedingly successful previous issue which was made possible by all your contributions. I can't and neither do I want to escape without congratulating you all for your range of contributions. We expect the same spirit in your contributions for the upcoming issues. Again I will add that I am open for all kinds of thoughts for the betterment of DIGIT-ALL.

Thanks and Regards

Prof. Sitanath Biswas

Dept. of CSE, G.I.F.T

Contents



Articles

- ◆ VIRTUAL WORLD COMPUTING LAUNCHES COCOON FOR INTERNET EXPLORER
- ◆ CITIZEN SCIENCE TEST DRIVE: FLEX YOUR INNER-ASTRONOMER'S MUSCLE WITH ZOONIVERSE
- ◆ MOBILE TO WEB
- ◆ TECHNICAL SUPPORT OR YOUR OWN EXPERTISE, CHOOSE YOUR WAY



Interesting facts



Cartoons



Technical Quiz



Poetry



happenings

Articles

✦ *Virtual World Computing Launches Cocoon for Internet Explorer*

By: Prof. Satyajit Nayak
Faculty, Dept. of CSE

Cocoon Internet was introduced to secure privacy and security software for the Internet Explorer browser. Internet Explorer users can easily download the free plug-in, which instantly provides users with greater privacy protection, security and convenience when surfing the Web. Cocoon works by securely connecting over any network to Cocoon's servers, providing enterprise-grade virus protection and encrypting all interactions preventing man-in-the-middle attacks. Vernon Irvin CEO of virtual world computing said that "Today's digital lifestyle has us connected to the Internet from a variety of devices and locations," and "Cocoon provides secure connections to the Internet even on public WiFi and prevents you or your children from accidentally downloading harmful viruses or being tracked by unwanted advertisers." The Cocoon software has taken online security and privacy to a new level by preventing your computer from directly touching the Internet. Your privacy is protected because websites and advertisers only see Cocoon servers, hiding your unique IP address and preventing your online activity from being tracked by cookies. Unlike traditional anti-virus software, Cocoon prevents malicious software and virus downloads by instantly scanning files for viruses before they reach your computer. Additionally, Cocoon offers disposable email addresses for each service you choose to sign-up for, protecting personal email boxes from spam and phishing attacks.

About Cocoon: Cocoon's Digital Protection Cloud™ secures your online privacy and keeps you safe from predators with a unique combination of data encryption and filtering technologies accessible from any device.

Cocoon's Triple Play Digital Protection™ keeps you safe from viruses, theft and tracking by filtering your entire Internet browsing through your own private, secure online cloud. Virtual World Computing (VWC), creator of Cocoon, was founded in 2008 and is dedicated to creating a safe and private Internet experience.

✦ *Citizen Science Test Drive: Flex your inner-astronomer's muscle with Zooniverse*

By: Mr. Anuj Kumar Rohit
Student, Dept. of CSE

As part of our ongoing series, "Citizen Science Test Drive," first-person reviews of citizen science apps, platforms, tools and projects, we present a guest post from Hal Hodson, a science and technology journalist, based in London, UK. People think that astronomy, and is only related in accordance with the telescopes. Tell someone that you've got a degree in astrophysics and they'll likely start asking questions about all your romantic late nights training telescopes to the skies, unlocking the mysteries of the universe etc. The Arecibo Dish, Mauna Kea, Chile's desert-based and imaginatively named Very Large Telescope; they all lend astronomy a dramatic figure - late nights, just you and the universe. That's not quite the truth.

Only the most masterful astrophysicists have any say in the operation of the most magnificent telescopes, although it's true that anyone can do science in their back garden with smaller scale set up. Era of the internet lets anyone flex their astronomer's muscles online, applying their brain to help professional scientists analyze images from some of the world's telescopes.

It's called Zooniverse, a collection of astronomical citizen science projects which facilitates anyone with an internet connection and a computer to increase our understanding of galaxies, the Sun, Moon, supernovae, nebulae, and even exoplanets. To start off with analyzing merging galaxies, millions of stars flowing together, interacting gravitationally to form new shapes. When two spiral galaxies like our own Milky Way come together, it's thought to result in a elliptical galaxy - a spheroid ball of stars. By picking the computer-modeled merger which best matches pictures of an actual galaxy merger, I can help astronomers refine their models. The website itself is simple, but works seamlessly. You need to make an account, but it takes 15 seconds with an email address and password. There's no email confirmation, so you're free to go straight to the science after sign up. Here each project comes with a tutorial explaining how to use the application, or you can just dive right in. For instance, the Planet Hunters project gets you classifying light curves right away, but there is a tutorial available. Beyond just the satisfaction of contributing, you can also track your progress - how many stars you have classified, how many potential planets you've found.

I'm pretty excited about trying a project called "Search for exploding stars". I'll be finding candidate supernovas in sky surveys taken by the Palomar Observatory in California, candidates which astronomers may then follow up. But the problem is, the 640,000 people taking part in Zooniverse projects worldwide have polished off the Palomar data - all the supernova candidates have been found. Zooniverse informs me about a pop-up, and suggests I try "Solar Storm watch", which asks me to spot solar storms in images from Nasa's STEREO spacecraft. The implementation of projects on Zooniverse is miscellaneous. Solar Storm watch comes with a very polished edge, with great training on how to spot and measure solar storms. The galaxy merger project is simple, which just asks me to pick best matches, requiring almost no training.

The Zooniverse platform itself keeps track of your actions, measuring your progress across each one. Zooniverse also has a couple of outlier projects: using old shipping logs to model Earth's climate; categorizing killer whale songs; even helping SETI look for alien signals in data from the Kepler mission. What's so intriguing about the platform is that it harnesses your brain's computational power and analytical ability to do things that even super computers can't. In a world where software and hardware are doing more and more, it's nice to know that old fashioned human brains are good for something.

✦ *Mobile to Web*

By: Sitanath Biswas
Asst. Prof., Dept. of MCA

For over few years, mobile internet usage has broadly increased to the point that website designers and developers can no longer put to ignore it. In wealthy continents, the resources are fueled by cheaper data service and fast mobile phone broadband connections. Marketing for any product or service, forasmuch, ought to have a body that leverages it exciting new channel. Sure, before you start to use valuable marketing tools, check for yourself. Using Google analytics to your web, check how much traffic is coming from mobile phone. It'll provide you a hint of how valuable this marketing channel has become and how fast the traditional internet is being transformed into a mobile device experience. On present date there're companies that offer services to enable you to have web access no matter where you go. For example a system capable to connect to the internet without having to concern about the real hot spots that may/may not be around.

These services enable you to transform your current PC into its own hot spot. And by this way, you can have access to the web wherever you need or wherever you're going to even when others are proximate using most of the bandwidth from a stuffy hot spot. It's an easy and effective approach to do business. The query is how you can make it work for your requirements. For an example you are on your way to office and on the way you get stuck in traffic. You're late for an essential business meeting. You could pull-over on laptop and connect to the meeting via a video link over the web if you had this type of card facility. It's that comfortable to use this type of service for the improvement of your work. Nevertheless, consider the several choices in these wireless cards for other apps. Suppose driving on a long trip and requiring something to take up the kids with during that time. You could provide them access Mobile to Web. They can easily play all of their favorite electronic games and also spend some time to doing school work. They could even watch movie on web. This type of influential user capability makes this service norm. Students can do research anywhere or do their homework. Those who are searching for work can even advantage because they've quick access to the actual web and the services it gives to look for a job. Those who are exhausted of being unable to access the web when they required, or relying on their slow mobile phone service to do so, will upraise the advantages of using web on the go services. Mobile to web service can make it comfortable for you to communicate and connect virtually anywhere. Add to it the level of security mobile web pages service can offer compared to open wireless and you can certainly take the benefit from wireless card like this. Many of today's abundant cable providers now provide the service as well. This can create a prominent influence on your connectivity and communications without hurting your pocket at the same time.

[up'date](#)

 Abhisek Satpathy was awarded with Microsoft Student Partner

✦ *Technical Support Or Your Own Expertise, Choose Your Way*

**By: Jyotiranjana Mahapatra
Student, Dept. of CSE**

On account of what is a computer we can term that a computer is a machine as just as any other machine, which has its own limitations. Issues concerning a computer have only increased with time and are known to us in the forms of software issues, Phishing, spams, virus, data diddling and many others. These are the issues that find their way in, precisely through an unsecured internet connection and sometimes by masquerading as some important information. Talking about the software issues, they may not be essentially the result of a virus intrusion but the internal malfunctioning of the system as well. Each of the problems requires proper understanding of the particular issue followed by a suitable measure to correct it. No one has the time to carry the PC out and wait in a cue for their number. Hence, enters the role of online technical support which offers solutions for a variety of problems under the same roof that too through toll free numbers.

Technical assistance from the top brand names in the market is not something new to the users. There are names like Microsoft, Dell, HP, Apple etc. who have their own help desks to offer genuine technical support that can be accessed 24X7X365. For example, anyone facing a problem with the Microsoft products can readily call Microsoft Help to get the answer to absolutely any kind of software related problem, maintenance of a PC. Why one depends on the services given by the online technical support is due to the fact that the assistance provided is through the experts with vast knowledge and experience. As compared to a regular user, they are the technical issues and help the user to install or uninstall a program, remove malicious software, recover data, transfer files, upgrade the system or software etc.

Similarly, those who want to be more self-reliant in treating the software issues on their own have another option available as certain companies provide software that can help the user fix some issues. There is Dell Support Center, HP Support Assistant, Acer e-Recovery Management, Microsoft Fix It etc. that are available in the market. These software are specifically developed to facilitate the user to carry out the troubleshooting steps on their own. The software can be easily downloaded free from the website of the manufacturer. It has many advantages that are listed below:

- ✓ Very convenient: the software is very easy to install through their automatic setup. They let you manage different devices by one screen, and also let you keep records.
- ✓ User specific: using such software, the user gets personalized support and the help is quite relevant depending upon the type of problem.
- ✓ Gives total control: the user gets the complete control over the settings and can choose the automation level.

Such software lets you carryout troubleshooting process on your own that too in a safe and organized manner. In case of facing any problem regarding Microsoft products, Microsoft Support is the ready solution. Apart from the brand, you also have technical assistance offered by other companies that are equally competent and reliable.

Words of Wisdom

“I think computer viruses should count as life ... I think it says something about human nature that the only form of life we have created so far is purely destructive. We’ve created life in our own image.”

— **Stephen Hawking**

Interesting Facts

By: Mr. Madan Sundar Sahu
Student, Dept. of CSE

- COBOL language was developed by the first female admiral in the US Navy, Admiral Grace Hopper.
- Only 8% of the world's currency is physical money, the rest only exists on computers.
- 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.
- 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.

Words of Wisdom

“I still love books. Nothing a computer can do can compare to a book. You can't really put a book on the Internet. Three companies have offered to put books by me on the Net, and I said, 'If you can make something that has a nice jacket, nice paper with that nice smell, then we'll talk.' All the computer can give you is a manuscript. People don't want to read manuscripts. They want to read books. Books smell good. They look good. You can press it to your bosom. You can carry it in your pocket.”

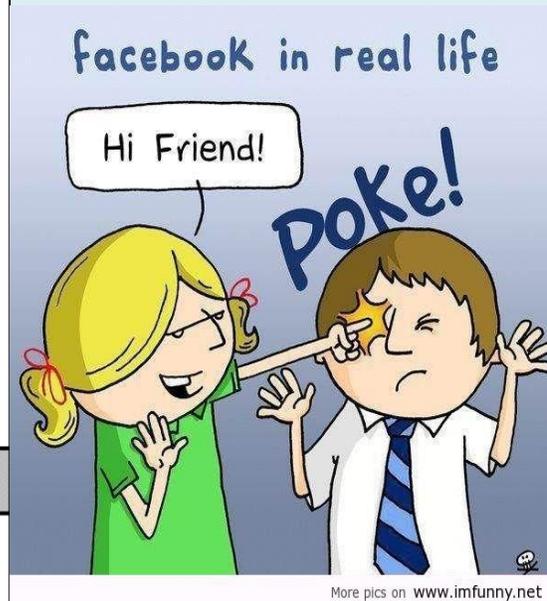
— **Ray Bradbury**

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- ✚ Entrepreneurship Development Cell has organized one day awareness program on “Women Entrepreneurs and Financial Literacy”

Cartoons

By: Ms. Reena Mandal
Student, Dept. of CSE



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✚ Information Science and Application Society, the society of computer science department inaugurated on 4th march 2012 among many funfairs comprising of robotics competition and paper presentation

✚ Workshop on Creativity and Robotics was organized by GIFTIANS from 17 February to 7th April, 2012

proverbios

A hungry man is an angry man: A person who does not get what he wants or needs is a frustrated person and will be easily provoked to rage.

Technical Quiz

By: Mr. MD Jawed Warsi
Student, Dept. of CSE

❖ Which of the following languages is more suited to a structured program?

- A. PL/1B. FORTRAN
- C. BASIC D.PASCAL
- E. None of the above

❖ A computer assisted method for the recording and analyzing of existing or hypothetical systems is

- A. Data transmission B. Data flow
- C. Data capture D. Data processing
- E. None of the above

❖ From what location are the 1st computer instructions available on boot up?

- A. ROM BIOS B.CPU
- C. boot.ini D.CONFIG.SYS
- E. None of the above

❖ What could cause a fixed disk error?

- A. No-CD installed B. bad ram
- C. slow processor D. Incorrect CMOS settings
- E. None of the above

❖ The part of machine level instruction, which tells the central processor what has to be done, is

- A. Operation code B. Address
- C. Locator D. Flip-Flop
- E. None of the above

❖ Which of the following refers to the associative memory?

- A. the address of the data is generated by the CPU B. the address of the data is supplied by the users
- C. there is no need for an address i.e. the data is used as an address
- E. None of the above

❖ How many digits of the DNIC (Data Network Identification Code) identify the country?

- A. First three
- B. First four
- C. First five
- D. First six
- E. None of the above

❖ A station in a network forwards incoming packets by placing them on its shortest output queue. What routing algorithm is being used?

- A. hot potato routing
- B. flooding
- C. static routing
- D. delta routing
- E. None of the above

❖ A report generator is used to

- A. update files
- B. print files on paper
- C. data entry
- D. All of the above
- E. None of the above

❖ Which of the following is not a logical data-base structure?

- A. tree
- B. relational
- C. network
- D. chain
- E. All of the above

❖ What command is used to count the total number of lines, words, and characters contained in a file?

- A. countw
- B. wcount
- C. wc
- D. count p
- E. None of the above

❖ What command is used to remove files?

- A. dm
- B. rm
- C. delete
- D. erase
- E. None of the above

Answers
1. D
2. B
3. A
4. D
5. A
6. C
7. A
8. A
9. B
10. D
11. C
12. B

POETRY

By: Mr. Subhrojyoti Sahoo
Student, Dept. of CSE

Why?

Why can't people see the real me?

I try so hard to be the perfect person I can be.

Sure I'm young, quiet and shy.

But I'm such an amazing person, which many pass by.

Why?

Why can't people just take the time?

Just tell me your favorite thing to do and I'll tell you mine.

The people that do, I hold dear to my heart.

They see me as mysterious, sweet, funny and smart.

You can't expect me to open up the very first day.

It takes time, but trust me, I'll soon have a lot to say.

Why?

Why can't people wait and get to know the real me?

I bet you I'd be a much different person than you first did see.

SAAPPENINGS

- ❖ GIFTIANS will organize an workshop by NABARD,BBSR and ED Cell, GIFT for SFG members on 9th September,2012

The End