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"AAWAAZ" is a dreams portrait of all the thoughts and of the youth. This news letter is a distillation of the vivid and vibrant emotions that sparked in the enthusiastic young minds.

1001





I an extremely happy to know that the S4 students of Computer Science & Engineering to bringing out the third issue of the neuroletter "Actuatz". A neuroletter is an important medium to depict the college activities. It offers was opportunity to young writers to aspeem their wiew on variant topics and creative talent. It helps to develop writing shifts among students. The unde opertures of articles indifferent actions green as a sense of period that our students posneus creative patential and original thinking in ample measures.

Communitable job has also been done by the editorial committee in planning for and producing the neuraletter in record time.

I congratulate the town and the students who have contributed articles and helped in the creation of the neucletter. Tour efforts, your thoughts and your dename will carry us all to places we can only imagine today.

 I wisk you all the best in your fishere vestures, efforts and careers.

Prof. P. Reghudes Need of Department Computer Science and Engineering SCMS SCHOOL OF ENGINEERING & TECHNOLOGY



Ensurbedge is like a painter's palette. An artia news the various colors in the palette and applies them on to a cauvar with his imagination and skill to create a beautiful portrait. Similarly, the knowlrelge what we acquire over the years will remain pat as plain colors, nutil it is applied on a cauvar with creativity, imagination and skills. An engineer bas no dearth of cauvas as any kind of problems corrounding him or ber; is a cauvas to apply the skill and imagination.

"AARAAZ" is a portrait of all the thooghts and dreams of the youth. This serus letter is a distilletion of the varid and whrand emotions that sparted in the enthusiastic young minds. "ARAAZ" peowides a platform for the young minds to give a face to their sclean and expressions and it is their creativity that has brought life into these pages.

May this little ender of thoughts create further sparks in your numbs too.

Ms. Sindhya K. Nambian Assistant Professor Department of Computer Science and Engineering SCMS SCHOOL OF ENGINEERING & TECHNOLODY

Everyone is a gendes ; * Ber if you judge a itelr on ite ability to elimb a creae, it will live ite whole life belleving dust it is sought - Albart Electedu

Cyber Awareness Camp

Department of Computer Science incepted a Cyber Science eletion of an animal maximum about computer animity and safer Internet practices among atdents of schools and colleges. As a pert of this cell, a workshop on "White Hat Hacking" costs conducted for students of S8 Computer Science and Engineering. The primary focus of this basels-on workshop was to create atwarments about operating system valuesabilities, diverse exploits, metal engineering attacks using Metphot framework. Students of S4, S6 and S8 resated a cyber security training actions plan for the convergence-July 2016 to December 2016. The action plan include tips for all Internet science who inverge to practice cyber security, frato highlight are keeping personal information safe, constion of strong parametis, security patching operating estens and brockers.

· DID YOU ENOW?

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Dr. Vined P Frailessor Department of Computer Science and Engineering SCHES SCHEEK OF ENDINEERING & TECHNOLOGY



PROJECT LOON

Many of 'us think of the Internet as a global community. But tun-thirds of the world's population does not yet have Internet access. Project Loon is a research and development project being developed by Google X with the mission of providing Internet access to could and remote areas. It is a vetwork of 'balloous traveling on the edge of space, designed to connect people in resul and remote areas, help fill coverage gaps, and being people back unline after disasters.



Project Loon balloons float in the stratosphere, twice as high as airplaneward the tweather. Is the atratosphere, there are many layers of used, and each layer of used survey in mortel by raing or descending into a layer of used blowing in the desared direction of travel. By partnering with Telcommunications companies to share eribider spetrum we've enabled people to connect to the balloon metwork directly from their phones and ather LTE-enabled denses. The signal is the passed across the balloon network and back down to the global Internet on Earth.



Mars information about Project Loon



Antony Leons

Anu S Kaimal

Spyware

Over the last several years, a lossely defined collection of computer software known as Spyware has become the subject of growing public alarm. Computer wars are increasingly finding programs on their computers that they did not house were installed and that they cannot univstall, that create privacy problems and open accurity holes, that can hart the performance and stability of their systems, and that can lead them to mistolently believe that these problems are the fault of another application or their battenut promder.

The term sprawee has been applied to everything from keystrole loggers, to attertising applications that track were such browning to sorb cookies, to programs designed to help provide security patches directly to were. More recently, there has been particular attention paid to a variety of applications that piggrback on per-to-per-file-sherring software and other free docubacks as a vort to gain access to peoples computers. This report focuse primarily on these no-colled access and other risolar applications, which have successingly been the faces of legislative and regulatory proposals.

Many of these applications represent a significant printcy threat, but in one view the larger concerns easied by these programs are transparency and war control, problens sumetimes overlooked in discussions about the issue and to a certain extent obscured by the term spycare itself.

Malware

Mahuare is an abbreviated term meaning "malicions software." This is influence that is specifically designed to pain access or damage a computer usifiont the knowledge of the owner. There are various types of malicine includingspyware, keyloggers, true virices, worms, or any byp of malicious code that imfiltrates a computer. Generally, roftware is considered malicine based on the intent of the creator rather than its actual features.

Malaare creation is on the rise due to the sheer volume of new types created duity and the have of nonsy that can be made through organized internet crime. Malmare was originally created as experiments and pranks, but eventually led to vandalism and destruction of targeted machines. Today, much of malmare is created for profit through forced advertiring (advase), stealing sensitive information (apyraare), apreading email spam or child permography (zonduse computers), or to extert money (sumsomtaare).

Various factors can make computers more valuerable to mahuare atlacks, including defects in the operating system design, having all of the computers on a network row the same OS, griving noers to much permissions or just using the Windown OS (due to its popularity, it gets the work walware written for it).

The best protection from malware continues to be the noval advoce be careful about what email attachments you open, be caubinus when surfing and stay away from mepicious websile, and install and maintain an updated, quality antivirus program.

For More Details

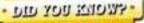


For More Details



"Nove do Fear Di Perfection, Yoo'll dever Reach Ic" - Salvador Ball

Build Your Own RC Car



In a stack of cards the king of hearts is the only king without a manutache Whether you are an engineering student building a multi terrain vehicle or an electronics hobby ist trying to impress people with your skills, making a RC robot car (wireless) is much better than the wired robot which you will have to tail while driving. This is not exactly a robotics project. By definition, a robot is something that makes a decision based on some external parameters.

Things you will need:

Most of the components that we will be using are really common and can be bought in heat electronics stores. Here is an list of all the hardware items that you will need for this privet.

1. Chassis

- 2. DC Motor
- 3. L Clamps(Motor Mount)
- 4. Wheels

7. RF Transmitter 8. RF Receiver 9. Encoder And Decoder 10. Motor Driver



Ziyad Zageer End Best Bale Rodel of Igniz



Scan The QR Code For More Info



Akshay Shivadas

Outgoing Students Of S8 CS

"The Computer Was Barn To Solve Problems That Old Not Exist Before" - Bill Gares

Singularity

Technological Singularity is that phenomenon in 'nat so distant' future that is going to strip as of any had percentage of chance in finding a job, especially new that we have already decided to take Computer Science Engineering (Ouch?). Well! Basically it's that point in time when computers advance so much that they can recursively keep reprogramming themselves to be better. It's pretty much the birth of actual Artificial Intelligence as the know it. Programs will look at themselves, find flatur in what we toeve able to so frustratingly code, look at so humans in july, marseiling at how lonely our programming skills are at global level. And then fix them all by themselves. Every iteration of the program will keep developing study to become something even smarter. Programs usualdn't be limited by solutever limitation that kuman brain as adjusted to, and voila! We have the perfect intelligence in the universe. Does this small more like science fortion than something actually plausible? If so, you are not entirely urong Look! The problem with such a encept is that it's like trying to find all the possible branching of a bage non-deterministic automata (I know goard I bleve it ... Didn't I? That was ney last 100ey at sounding werdy.... Sorry) or more like trying to find what existed before The Big Bang. We put can't understand what will happen over the Singularity takes place. Even with all the corsucopia of bright minds in technological field we have, we cover up and d short of deciphering it. Think about it, the moment we attain technological singularity, we create a chain nation of exponential intelligence explosion (1 didu't make that one up). So it begs the question, bow much time usuald it take to reach absolutely perfect intelligence. It should basically depend on how much processing power we have. But given how more and more powerful our website phases, maniframes, experionipaters are becoming year after year, it should be poundle to have enough to notain the explosion at a healthy rate. Maybe a few seconds, maybe few minutes at hours or years. And then we all lose jubs (auch Again!). Don't take me for a pensimist none, even though my heart next it will happen in our life time, bears still stambles on usey to that conclusion. (Note! I haven't get enough of a philosophical movel to care about taket Scorgelarity will do to mankind after we are gone). First of all, we don't really understand what intelligence is What drives the 'kind of artificial intelligence' we are after? All we have ever been able to achieve is something that mimics artificial intelligence. Hyper database management and processing to find all the possible annurs to a question, followed by a self-learning algorithm to chause the right annues. But these kinds of intelligence minicking extents work relatively pairly when there is just no enough date to process, duel intelligence is not just processing information; if's creating form out of nothing. Kind of like schy you decided In unar that selling shirt back in 22rd July 2009. It's lat about intuition, feelings, indirect, art etc. And fanny enough, we all hold the key to that actual artificial intelligence, yes? Right between your earse Human Brain, are need to understand AL use need to look no further. Human Brain is the key to Singularity, and that the exact same reason why use still don't understand intelligence well enough. We know brain does a series of staffs when it is subjected to some sensory inputs, but not only it is the way it is. Many of the artificial intelligence research projects have been flirting around this concept for quite some time note. Like for econple Google's Artificial Brain. Google recently build a neural network with 16,000 Micropenerums and 1 hillion connections. This numbroads meffed TonTabe and started picking up cat videos (Who vanidas'8'). It tous not instructed to do as, but it did anyway using some arrivally complex self-learning algorithm. So using cats? We don't know. Maybe these videos were a set that was easier to differentiate from others, more distruct. This has been one of the instances of us being cluser to proper AL but it is still being regarded as not enough of a definitive proof of impending singularity by many experts. So it is pretty much safe to assume that, by the time woence explains subs say fall in law or score that solide shirt(Or scars) yellow?), they will be more close to realistically achieving Singularity. So keep the optimizen and continue doing what you are duing right user. There is a reason why it is called HTPOTHETICAL phenomenon. And guess what, you insid he one of those rare brilliant minds that actually find the key to singularity. So either way, Den't Quit Callege (LaP).

> * Intalligence is site utility to adopt to simulat - Stephen HattMay

· DID YOU ENOW?

The concept of singularity is entwined with many other concepts like immortality, semi-organic brain-like computers, mind uploads etc., stuffs I barely understand that even mentioning them opens a can of 'worms that can't be dealt with-in this article. My whole understanding of singularity is some of the pages that I stumbled upon (Yup! Stumbledupon.com) and YouTube videos by some Japanese theoretical Physicist (Michio Kaku or something) almost 3 years ago. So if you are still reading this (congrats! You are a wolverine), and finds it interesting, go the way of Google yourself (I know I never did). All the heat!



Cogratulations New IEEE Chairean



Arun Sen

Cyber Economics

Datas stored using peu and paper are long gone. In this digitized world everything including the datas are digital, this is where cyber economics began its ezplorations and expansions, the data stored can be private or public. It is for this very private data or technology the cyber economics play its part.

Highly classified datas has its its own importence taking in both perspective views of both of an individual as wellin as of a nation as well cyber war is not a new word to the world .we hear it almost everyday.attempts to steal private datas of any? organisation and sellin it is basic economic principle behind it.however things get serions when datas such as pf highly classified types get stolen.

Suck as that concerning the defence of a nation.hackers try to grab highly confidential defence datas such as strategic points of a nation its patrol points and points of military importence are classified datas.

The economics of cyber threats are simple: cyber attacks are easy to organize and cheap to exact. Any computer anywhere can become the front line of an attack, which is not only difficult to defend against but leads to the used for constant vigilance and flexible defensive moves-both of which are rather more costly.

Unfortunately, the economics behind cyber threats overwhelmingly favor attackers. For one thing, the investment needed to launch an attack is low and the yield from a successful attack is high, but attackers enjoy other benefits as well. Hacktruins gain widespread visibility and notoriety, criminals earn large profits by selling private information, and attackers of nation states target leading financial institutions as a means to gather valuable IP and make political headlines.

Increasingly, such threats apply to individuals as well. Data sets rich with identity information are the new gold-they are important enough to be included in estate and divorce documents and certainly important enough to steal. Stealing just one piece of information can open a thread that nuravels a person's financial, medical, social, political, and professional identity and enables criminals to hold digital identities for ransom or wipe out valuable online assets such as music or pictures in seconds......

What other warfare does is expose this datas or classified technologies to whommever concremed. We are talking about countries as well as organizations and even individuals who does this. Other economics has paved way for other division entenus for most nations to protect and defend it from other threats its economically wanting as the world need professionals who could eczecute this tasks. However jobs paved way through other way is not something you could enjoy with a social status, it has its own protocols to follow.especially if you are kired by your government. אמועד הסג מום

Shakespearn www.tati the words 'accessiontics and 'hume



"You San's Waland Lane, You San's Maximized Franc. You San's Gaugle 201 91 Life's document. You door dataally Line Same 91 Your Life" - documents

Project ARA

Project Ars , which in theory will be users swap in different components on the phone instead of replacing the whole phone when it's time to upgrade. An encourages hardware manufacturers to build modules that will dot into a metal "endockeleton," which serves as the basic core of a phone. The camera, screen, and any other feature that you'd traditionally associate with a smartphone exist only as a modular tile — even the processor and the power yock are remacable.

When it comes to keeping the modules in place, physical latches are fiddly and can easily break. Instead, dra phones will use electropermanent magnets to hold them in place. It's kind of a cross hybrid between a permanent magnet and an electromagnet, in that it has an un state and on off state. It uses an electrical palse to switch between those two states, but it is a passive component, meaning it commens no power in both the off state and the on state. An app on the phone will let you toggle the magnets on and off, and the 30 neucloss of force in the on state should keep the magnets from flying off when una Jup the phone.



DID YOU EROW?

time Newton Invented

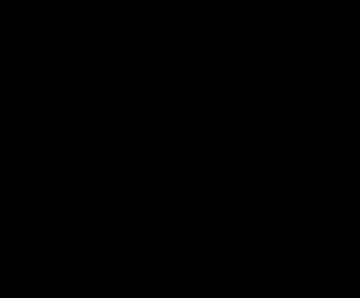
the cat data?

Scan to watch a full demonstration video

* Hove fast and break things unless you are breaking stall you are not moving fast encoded + Jair's Zuskerbarn

Graphite Shades By S4 Students

uka Prakash



Thank You

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