

SVERI's College of Engineering (Polytechnic), Pandharpur Department of Computer Engineering

02

COMPLIT

15 August 2018

The Computer Literature.....

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MIND READING COMPUTER

A team in the Computer Laboratory at the University of Cambridge has developed mind-reading machines - computers that implement a computational model of mind-reading to infer mental states of people from their facial signals.

Using a digital video camera, the mind-reading computer ppt system analyzes a person's facial expressions

in real time and infers that person's underlying mental state. The model represents these at different granularities, starting with face and head movements and building those in time and in space to form a clearer model of what mental state is being represented. Movement, shape and color are

then analyzed to identify gestures like a smile or eyebrows being raised.

The mind-reading computer system presents information about your mental state as easily as a keyboard and mouse present text and commands. Imag-

ine a future where we are surrounded with mobile phones, cars and online services that can

read our minds and react to our moods. It can be used for various medical applications and Robot Teachers.

Kajal Pawar(TYCO)

72TH INDEPENDENCE DAY

Message of HOD

It is our pleasure to present second News Letter "CompLit" of our department. This news letter is one of the ways in which we can disseminate the information about our department. The past semester was full of various activities by the students and faculty in Academic, Cocurricular and Extra-curricular activities. As you read through pages, you will realize that we have succeed in academics as well as in different co-curricular activities.

Prof. A.S. Bhatlavande

"Airbar" - Neonode

Feel like you're missing out because your laptop doesn't have a touchscreen display? No problem. You can give it one for just \$50, and you don't have to remove a single screw to do it.

AirBar is a tiny strip that plugs into the USB port on your PC and turns non-touch displays into touch-friendly devices. To accomplish this, the plug-in device uses magnets to attach to the bottom of your screen and emit an invisible light field over the monitor. This light field measures finger position to act as a sort of hacked touchscreen and gesture control center for non-touch friendly devices.

It is compatible with most Chromebook notebooks and PCs running Windows 8.1 or 10 and also MacBook Laptops, Air Bar pro-

vides
consumers with
the option to
promptly
and
seamlessly ac-

tivate touch functionalities on their laptops. Goal of AirBar is to continue expanding its application to more devices Once you've plugged it in to a USB port. AirBar blankets your display with "an invisible light field," which Neonode refers to as "zForce AIR technology." It sounds pretty cool, and also a lot like the infrared big-screen.

Siddhesh Khadake(TYCO)

Deep Web Search

There is a vast section of the Internet which is hidden and not accessible through regular search engines and web browsers. This part of the Internet is known as the Deep Web, and it is about 500 times the size of the Web that we know.

Deep Web is referred to the data which are not indexed by any standard search engine such as Google or Yahoo. The 'Deep Web' refers to all web pages that search engines cannot find, such as user databases, registration-required web forums, webmail pages, and pages behind pay walls.

Search engines like Google are incredibly powerful, but they can't crawl and index the vast amount of data that is not hyperlinked or accessed via public DNS services. However, there are Deep Web Search Engines that crawl over the TOR network and bring the same result to your regular browser. However, there is one nsequence of browsing Deep or Dark Web on a regular browser. Working this way make these .onion will search results visible to you, me, and also, for Google.

Rushikesh Korade(TYCO)

Bug-Sized Robot by DARPA for Robot Olympics

DARPA is seeking innovative designs for robots that measure just a fraction of an inch, and the tiny bots will compete against each other in a series of contests of strength, speed and agility.

These bots will be used for deploying in locations that are difficult for people to navigate, or are dangerous or inaccessible to humans, according to the statement. SHRIMP will research and develop novel solutions for powering small robots, and will investigate new

materials that could improve the robots' performance without significantly increasing their size or heft.

Bots will be tested in untethered actuator-power systems, showing how high and how far the robot can jump, how much weight they can lift, how far they can throw Robots may be small, but their minuscule size will allow them to perform important tasks that are off-limits to larger robots.

Harsha Jadhav(TYCO)



PEPARTMENTAL RESULT FOR A.Y. 2017-18

No.	NAME OF STUDENT	MARKS %	CLASS
1	Ms.Gund Pratiksha P.	97.13 %	1st Year
2	Ms.Gaikawad Rutuja Y.	96.50 %	1st Year
3	Ms.Ranpise Priti P.	93.75 %	1st Year
1	Mr.Khadake Siddhesh J.	89.78 %	2nd Year
2	Ms. Vasekar Priti R.	88.67 %	2nd Year
3	Mr.Korade Rushikesh S.	88.56 %	2nd Year
1	Ms.Bhalvankar Kashmira	92.13 %	3rd Year
2	Ms.Kulkarni Shivani N.	91.38 %	3rd Year
ف	Ms.Pandit Sneha N.	91.19 %	3rd Year

FACULTY ACHIEVEMENT

Mr. Bhatlavande A.S. has published book on "Intelligent Keyboard for Hindi Devnagari Script" in Lambert Academic Publishing

PORT ACHIEVEMENTS FOR A.Y. 2017-18

R.No.	NAME OF STUDENT	EVENT	RANK	CLASS
1	POTDAR PRATIKSHA RAVINDRA	Triple Jump	Winner	Third Year
2	POTDAR PRATIKSHA RAVINDRA	Long Jump	Runner	Third Year

ITORIAL

our pleasure to present this Second issue of COMPLIT with new design. We are thankful to aculty members and student friends for their co-operation. We will continue the journey of ring and implementing technologies in future also.

Thank you all...!

Mr. Khadake S.J. Student Co-ordinator Ms.Khare G.J. Staff Co-ordinator

EB DEVELOPMENT WORKSHOP







12 Minute Charging!

AR apps.

to making better batteries, thanks to its working on it. breakthroughs in using graphene in place of lithium.

It's developed the carbon allotrope into what it's calling a 'graphene ball', and claims that degrees Celsius.

while looking for a way to mass synthesize it is utilized for both the

Workshop

Department had organized 15 days workshop on Android and Python Programming for Third Year Student and PHP programming for Second Year Students in collaboration with "TechWings International IT Solutions". The main motive while arranging such workshop is to bridge gap between Academics and Industry and make the student Industry skilled and ready for working.

Now a days, phones can last a day with sin- anode protective layer and cathode materials in lithgle charge. But there's work to be done yet if ium-ion batteries, and allows for the aforementioned we're heading for a future rife with VR and benefits of faster charging and increased capacity. So, when can you expect better batteries in your To that end, Samsung says it's inching closer phone? Unfortunately, Not yet. Samsung is still Tejas Patil(TYCO)

Augmented reality (AR)

Augmented reality is the integration of digital a battery made with this material will be able information with the user's environment in real time. to hold 45% capacity than a lithium one, re- Unlike virtual reality, which creates a totally artificial charge fully in just 12 minutes - making it environment, augmented reality uses the existing enviideal for phones; it can maintain temp of 60 ronment and overlays new information on top of it. One of the first commercial applications of AR tech-The researchers working on the project noted nology was the yellow "first down" line that began apthat they hit upon this graphene ball material pearing in televised football games sometime in 1998.

AR technology is used in many industries includgraphene, for its high strength and conduc- ing healthcare, public safety, gas and oil, tourism and tivity - both of which are ideal for develop- marketing. Sophisticated AR programs used by the ing batteries. Fused with silica to make balls, military for training may include machine vision, bject recognition and gesture recognition technologies. Augmented reality apps are written in special 3D programs that allow the developer to tie animation or contextual digital information in the computer program.

Fogscreen

Siddhesh Pardeshi(SYCO)

Fog Screen is breakthrough technology that allows projection of high quality images in the air. It is currently the only walk-through projection screen. You can literally use the air as your user interface by touching only the air with your bare hands. The screen is created by using a suspended fog generating device with no frame around, and works with video projectors. The fog they use is dry, so it doesn't make you wet even if you stay under the Fog Screen device for a long time. The fog is made of ordinary water with no chemicals what so ever. With two projectors, you can project different images on both sides of the screen. It is a display device which is the application of computer graphics.

Aishwarya Gaikwad(TYCO)

