



KeyNote

IEEE CS GECBH

Your Key Into Our Tech World

02

1ST JULY 2020

Hyper Personalization: Customizing Service With AI

Hyper personalization is the use of customer data to create and present customized contacts, information, or recommendations to customers. These customizations are created based on individual customer profiles. Through hyper personalisation we get better personalized website experiences, Improved understanding of context, mobile optimization etc.

-via computer.org

5G : A Brief Insight into the Wireless Revolution

5G enables a new kind of network that is intended to connect everyone and everything virtually including machines, objects, and devices. It is based on OFDM (Orthogonal frequency-division multiplexing), a method of modulating a digital signal across several channels to reduce interference.

This wireless technology is meant to deliver higher multi-Gbps peak data speeds, ultra-low latency, more reliability, massive network capacity, increased availability, and more uniform user experience. A defining capability of 5G is that it is designed for forwarding compatibility (the ability to flexibly support future services that are unknown today).

- Thaniya B Nair, S4 IT



VR System Hacks Your Nose to Turn Smells Into Temperatures

Virtual reality has gotten really good over the last few years, but with a few exceptions, the "reality" part ends up getting restricted to sight and sound. Researchers from the University of Chicago have come up with a much more power efficient way of generating different temperature sensations in VR.



-via IEEE Spectrum

By using very specific chemicals to access the trigeminal nerve in your nose, they can make you feel hot and cold through smells without realizing you're smelling anything at all. The researchers describe this as "a perceptual duality,"

IEEEXtreme Corner

Participants can form a team of three from any discipline i.e, computer science, electronics, electrical, IT ,etc. The team shall consist of both Student Level and Graduate Level members but at least one Student Level participant is a must.

IEEEXTREME 14.0 will take place on October 24, 2020 at 05:30:00 IST

IEEEXtreme 14.0 Registration opens on 03 August 2020 at 05:30:00 IST

- Through July 31, IEEE is doubling the number of monthly article downloads available to **IEEE Member Digital Library (MDL)** subscribers.
More info: <https://ieeexplore.ieee.org/Xplore/home.jsp>
- IEEE has launched a new 14-hour online **English for Technical Professionals** for both working professionals and students.
- **IEEE India Council Student Coordination Team** is organising a webinar on **“Personal Branding”** with the help of Ms. Miri Rodriguez, the Global Head of Internship at Microsoft on **5th July 2020**.
- **IEEE Bangalore Section** has opened highly subsidised registration for non-author delegates of **IEEE CONECCT 2020**.
Registration: www.ieee-conecct.org

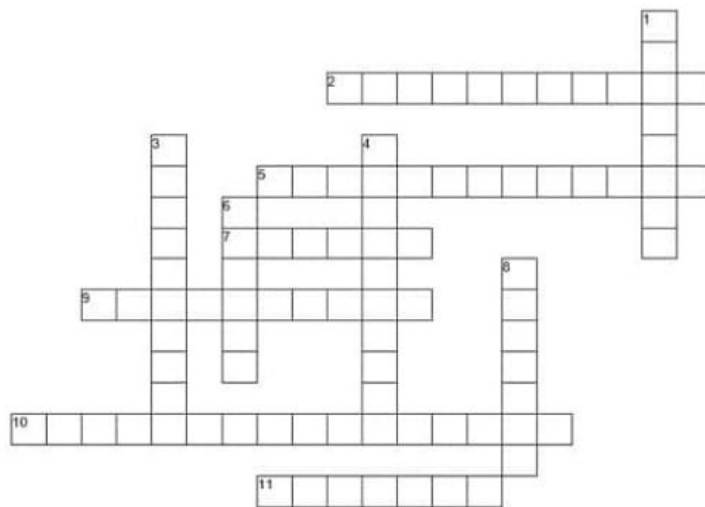
TECH CROSSWORD

Across

- 2. Creator of the first program
- 5. An error
- 7. Toolkit for Wifi networks.
- 9. Science of designing work spaces
- 10. The information about someone on the Internet.
- 11. Small chunks of information

Down

- 1. Bypassing normal authentication
- 3. The amount of data that is transferred under real life conditions.
- 4. Word based program
- 6. Central module of an OS
- 8. Information is organized in layers



Send in your answer at
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PAST EVENTS

- Webinar on opportunities for a first year engineering student.
Speaker : IEEE Chair
- KeyNote - Our first newsletter launched
- Webinar on Introduction to UI/UX Designing
- X Æ A-12-online tech based meme contest
- PipInstall - A python coding classroom

UPCOMING EVENTS

- A doodle competition in collaboration with WIE
- Webinar on Introduction to Web Development

Bio Computing

The development of bio computers has been made possible by the expanding new science of nanobiotechnology. A bio computer uses systems of biologically derived molecules such as DNA and proteins to perform computational calculations including storing, retrieving, and processing data through a series of metabolic pathways. Biological materials that are engineered to behave in a certain manner are used based upon the condition of the system. Recent researches in this field have proven that the components of a biocomputer can be a biological equivalent for transistors. The potential to solve complex mathematical problems using far less energy than standard electronic supercomputers, as well as to perform more reliable calculations simultaneously rather than sequentially, motivates the further development of "scalable" biological computers.

-Ajay Mahadev , S2 ECE