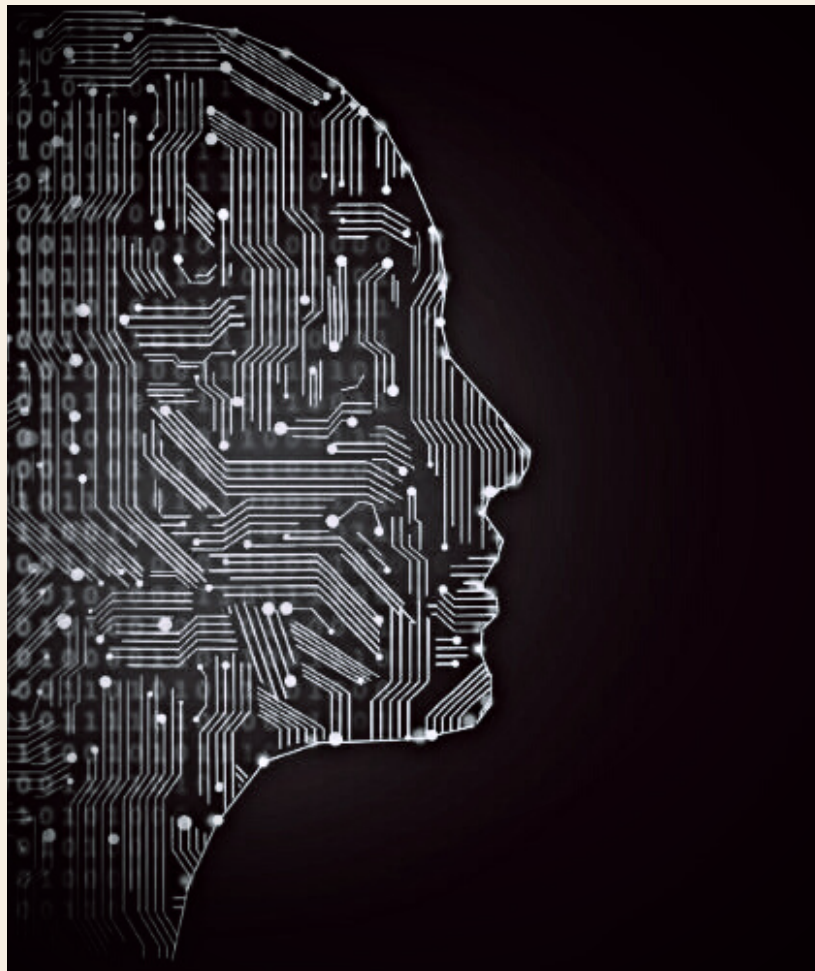


TECHNOLOGY AND INFORMATION SYSTEM



<https://workforce.com/news/what-exactly-is-information-technology-it>

APPLICATIONN OF 5G IN SMART CAMPUS
EMERGING TECHNOLOGY IN NETWORK INFRASTRUCTURE
5G, WIFI6, AND EMERGING NETWORK TECHNOLOGIES

FARAH IZZAH BINTI MOHD AISHA NUDDIN
NURFAZLIANA SURAYA BINTI BAHARUDDIN
MUHAMAD HAIKAL BIN MAT ARMAN
NOR ALYA BINTI MOHAMAD NOR
KHALISAH NAJAH BINTI NAWAWI

Table Of Content



3

Application of 5G in Smart
Campus

4

Industry Talk 5:
Emerging Technology on
Network Infrastructure
(CommScope Malaysia)

6

Industry Talk 6: 5G, Wifi6
and Emerging Network
Technologies (HUAWEI)

source: <http://www.memphisitcouncil.com/about-us.html>

Application of 5G in Smart Campus



<https://www.forbes.com/sites/centurylink/2015/08/11/5-tech-trends-that-will-transform-education-by-2025/amp/>

Description

One of the application in 5G in Smart Campus is ASU Commencement App which was developed by the students from Arizona State University itself. This app not only helps by building new technologies to bring graduation towards the home of graduates, but also offers more interactive experience so that the students could feel like they were apart of the moment. ASU Commencement App functions by using augmented reality technologies to stream the opening University Ceremony through the app, by using the camera on the gadget to photograph their surroundings as a background and bringing graduation inside their homes.

Source : <https://uto.asu.edu/new-asu-commencement-app-offers-graduates-ar-experience>

Reflection

Smart Campus benefited student and others in many ways such as improving students' experience while they are staying at the campus. One of the technology we could find in Smart Campus is contactless and mobile payment and also smart laundry machines which benefited students since it provided modern campus experiences that are convenient.

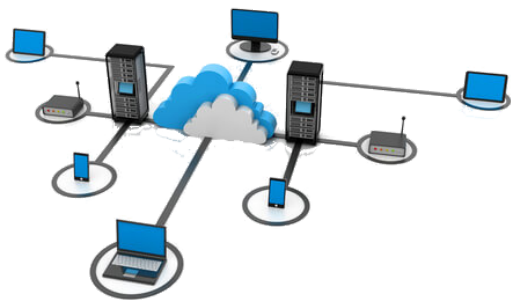
Smart Campus also benefited the university itself because by giving more technologies that helped to adjust better in campus, it would have been given good rating by the students in which it would further boost the university reputation.

Source : <https://www.coxblue.com/what-is-a-smart-campus-and-the-benefits-to-college-students-and-faculty/>

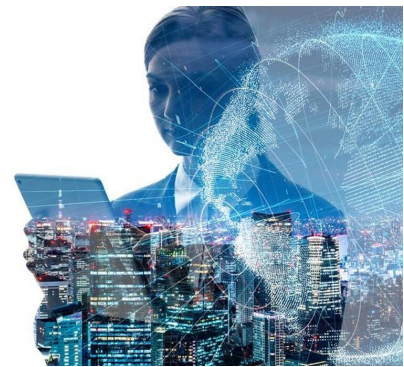
Emerging Technology on Network Infrastructure (CommScope Malaysia)

01. Description

Hardware and software, systems and devices make up network infrastructure, which enables computation and communication between users, services, applications, and processes. The network infrastructure of a system is made up of everything involved in the network, from servers to wireless routers.



Sources: <http://syabastech.com.my/page-network-infrastructure>



Sources: <https://www.techrepublic.com/article/top-10-emerging-technologies-of-2019/>

02. Device Used

1. Computers
2. Smartphones
3. Routers
4. WIFI Access Point
5. Modem

COMMScope®

Sources: <https://www.commscope.com>

03. Example of any domain

01

GOOGLE.COM



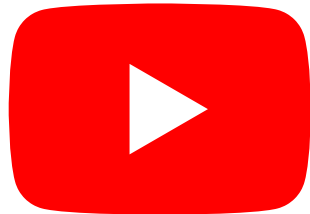
02

WIKIPEDIA.ORG



03

YOUTUBE.COM



04

NETFLIX.COM



05

DICTIONARY.
CAMBRIDGE.
ORG



04. Reflection

Network Infrastructure benefit companies in so many kind of ways because the bulk of company processes rely on the network's functionality, an unreliable network can have a significant impact on operations. A secure network architecture reduces downtime and guarantees that productivity is maintained as much as possible, regardless of the circumstances.

5G, Wifi, Emerging Network & Technologies (HUAWEI)

Description

Huawei is one of the leading providers of ICT infrastructure and smart devices. It is in more than 170 countries and regions and ranked no. 40 on Global 500. Huawei is building the Horizon Digital Platform and Ecosystem, integrating new ICT technology and bringing an intelligent world to life through digital transformation. Two of the technology platforms that Huawei is working on are 5G and Wifi6. 5G is the next-generation wireless technology system..

The device used

- ① Smartphones
- ② Wearables
- ③ Smart Home Devices
- ④ Telematics



Source : <https://www.forbes.com/sites/bernardmarr/2019>



source : <https://www.bharian.com.my/amp/rencana/komentar/2021/01/775214/agenda-jendela-perlu-diterus>

Reflection

5G provides speeds faster than any previous generation. It is also more flexible than Wi-Fi and can support a wider range of devices, sensors, and wearables.

5G devices are more reliable because it enables better transmission of data in extreme conditions.

As for Wi-Fi 6, it improves bandwidth and coverage and also provides new video services such as multi-screen IPTV, online education, VR, and eSports.

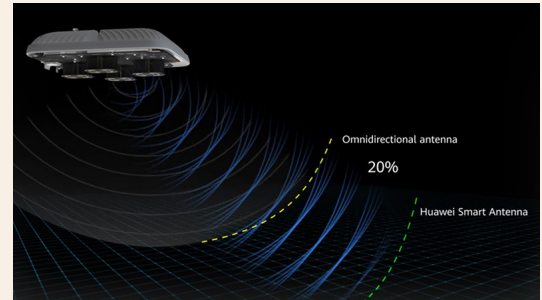
Wi-Fi 6 also supports better multi-user experiences with more than 100 terminals are connected, and the power consumption of terminals reduced by 30%.

With 5G and Wi-Fi 6, society can excel and use devices in a better way with smooth transmission, resulting in a better experience.



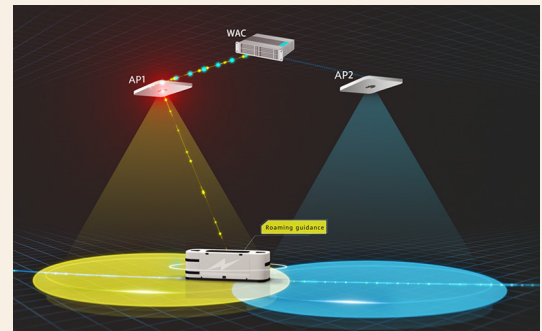
Example of any domain

SmartAntenna



source: <https://e.huawei.com/en/products/enterprise-networking/wlan/wifi-6>

SmartRadio



source: <https://e.huawei.com/en/products/enterprise-networking/wlan/wifi-6>

HiDC



source: <https://www.fieldeas.com/10-tendencias-tecnologicas-2018/>

HiCampus



source: <https://www.destimap.com/index.php?act=attraction&a=Schloss-Tratzberg%2C-jenbach%2C-Austria>