



## An In-Depth Look Into

### The Prospects and Implications of Wireless Communication



Wireless communication requires the use of electromagnetic radiation. Two or more devices are connected and linked up using radiation emitted by charged species (the electromagnetic radiation). Signals are sent and received via electrical impulses, which run through the wires, in traditional wired

communication systems. Modern-day communication demands and requirements longed for a more resilient, vibrant and effective mode of communication and wireless technology has made things easy. Satellite communication, mobile communication, wireless network communication, IR or Infra-red communications are some of the sub-categories, types, and applications of wireless technology. Radio frequency (RF) waves is a generic name for radiations sent and received by digital devices connected with wireless systems. The science of Global Positioning System (heavily relies on wireless technology), additionally WIFI, Hotspots, mobile tracking, navigations and satellite TV are all dependent on wireless technology.

A beam of charged particles in the form of electromagnetic radiation (RF waves) is amplified by the satellite, detects and records the necessary information and sends back to the earth. Global positioning system (GPS) is a type of navigation system. The system is used to locate the position of the objects on earth. A number of satellites are orbiting around the earth in the upper atmosphere, which, courtesy of electromagnetic radiations, transmit signals via the process called triangulation. A GPS receiving device uses radio waves, which are low-frequency waves with longer wavelengths, to establish connections with three to four satellites to determine its location. Distances from three satellites are measured to locate objects. Skeletal remains of a person, who vanished some 22 years ago in Palm Beach Club in Florida, USA, have been recovered from a pond in September 2019, all because of Google Earth, which located the target via electromagnetic radiation. The application of wireless technology in health care and education has been enormous as people living in remote areas can access a medical practitioner and access tutors from all across the globe. Wireless technology allows the use of personal health care assistant which guide the patient all day long, regarding medications, precautionary measures, exercise schedules and can link them up with the professional at the time of dire needs. A student from remotest of location can connect with his peers, courtesy of digital devices, and can map, identify and locate precise information pertaining to his subject. Personal health care assistants have proved a great success in underdeveloped countries such as Uganda and other parts of Africa. Aid workers guide patients with all precautionary measures pertaining to the possible outburst of an epidemic. Similarly, people learn how to cope with stressful mental conditions and how to fight out contagious, chronic, epidemic or endemic diseases by the use of an application sponsored by some local or international NGO, which contains all the useful links, organized, arranged and displayed in simple and meaningful language.

Wireless communication has bridged the gap between the privileged and the underprivileged, literate and illiterate to a great extent and is shrinking the world from all ends. Environmental protection, prediction of natural disasters, global positioning and remote sensing, health care assistants and educational benefits are some of the highlights of wireless communication. The only drawback seems to be the security, which can be breached as the radio waves can be intercepted and broken through, but a successful activity of eavesdropping will take some doing. ■

Yasir Hayat

## Smart Tools to Take Digital Notes

We are living in an era where everything is transforming day by day just to become adjustable in the digital form. This whole phenomenon has made it very easy to find various things under one platform, for example, we can find unlimited things in every basic phone i.e. calendar, calculator, alarm clock, games and etc. Likewise, those days are far gone when we used to have separate notebooks for making to-do lists, drawings, illustrations etc by the introduction of digital notepads.

Notepads allow users to take notes in the form of PDF format which is PC friendly. They saved the users from extra fatigue of taking notes and then scanning them in order to use them on the PC. However, it's quite hard to find the best suitable digital notepad because unlike standard notepad it has a lot of features that vary from type to type. Let's dig deep into the best three notepads with amazing features.

### Sony DPT-RP1/B 13

- Sony DPT-RP 1/B allows the users to have unlimited features under one platform. It allows the users to write, draw and make important illustrations as well which can't be written.
- Sony DPT-RP 1/B is exclusively made for entrepreneurs and editors because of its great battery timings and 16 GB internal memory. It has the built-in ability to work for almost a week and it stores all the major documents.
- This digital notepad is highly compatible with Apple and Windows devices, unlike other digital notepads. It's easy to transfer files from it to the Apple and Windows devices.

### Cyberpad 8.5X11 USB Black Digital Notepad

- Cyberpad USB Black Digital Notepad is exclusive designed for people with less or none technical experience especially students. It comes with Windows XP, five main buttons that do all the work and an art pen.
- As the title of the Cyberpad USB Black Digital Notepad refers, it has a USB portal which makes it very easy for the users to transfer files.
- It has an amazing feature called handwriting recognition, which converts the documents into a readable format if the user finds it difficult to understand the handwriting.

### SolidTek DM-L2

- SolidTek DM-L2 is the best notepad for business owners who have to take long trips and attend seminars on a weekly basis. It has 3 AAA batteries which are easily available and can work for days without getting charged.
- Likewise, it has 32 GB internal memory which is perfect for saving a lot of data without bothering the users to transfer data to the PC in time.
- SolidTek DM-L2 has a remarkable feature called the Digital Memo Manager which manages all the notes and keeps them in order. ■

Atiqah Nasir

## Telepathic Communication



How would you feel if you can communicate telepathically with your best friend? This novel idea seems a thing of sci-fi movies but in the future, that could all change as a new report by a UK scientific organization Royal Society has revealed some exciting things which neural implant technology could make possible like it can enable you to communicate telepathically. The brain-computer interfaces will not only be limited to connect thoughts, but sensory experiences could also be communicated from brain to brain. However, the report also predicted that hooking up brains to computers could compromise individual privacy and there could be severe risks if the technology falls into the wrong hands. ■

The voice is monthly newsletter published by the management of Skylite Network Private limited. This brings informational and educational material for our employees, friends and families. It serves the purpose of employee development and communication. Skylite Network Private limited maintains its headquarter in Silicon Valley (California) with satellite office in Rabwah, Accra and Lagos. For any queries, feel free to contact us at [thevoice@skylite.com](mailto:thevoice@skylite.com)

## Smile to Pay



No cash, no credit cards, no wallet, and no phones are needed anymore in China for shopping as the country adopted facial payment technology which offers shoppers to buy goods by posing in front of point-of-sale (POS) machines having cameras and linked the image to their digital payment system or bank account for verification and payment. The technology has raised concerns about privacy and data security but consumers in the high street wave aside privacy concerns. ■

## Light From Darkness

Millions of people around the globe don't have access to electricity yet. Though cheap solar cells are being used in rural



communities to power devices and home appliances but they don't work during the night. Now scientists have discovered a way to make electricity at night using the thermoelectric effect. Thermoelectric devices are already being used to generate electricity from waste heat of factories and car exhausts. Project Scientist Aaswath Raman and his team have adopted a different mechanism called radiative sky cooling. They have developed a polystyrene box which consists of a black disc and aluminium block. The black disc is placed outside the box to cool down by losing heat to the sky while aluminium block is kept inside to warm up by absorbing heat from surrounding air. The device serves as a commercial thermoelectric generator which converts the temperature variance into electricity. Raman and his team have tested the mechanism on a rooftop in California and the system generated 25 milliwatts of energy per square metre which is enough to turn on an LED light. The new mechanism costs less than \$30 and is not effective in cloudy weather and rainy season. ■

## Share Google Calendar

Do you ever miss a family event or a friend's farewell party because you forgot due to your busy schedule? If yes, then Google Calendar is the solution of your problem as the app used to set reminders of your important events like meetings and birthdays and now to set group reminders as well. To set it up, go to <https://calendar.google.com/calendar/r>, move to the 'My Calendar' section on the bottom left side. Tap on the three vertical dots before the calendar you'd like to share and select 'Settings and Sharing'. Carefully check the time zone and go down to 'Share with specific

people' and tap on 'Add people'. Add the email addresses of all to whom you want to share your calendar with and also select the appropriate choice by clicking on the 'permissions' dropdown before sending it. It is also important to note that the recipients can only see your calendar if they will click on the link of auto-generated email otherwise you can make your calendar public if any of the contacts don't have Google Calendar. ■



## Import Yahoo Contacts to Gmail

Sometimes, you find a need to switch from an old email account to a newer one but cannot leave important data like contacts, emails, and others behind in the previous account. Thankfully, Gmail has made it easy to import all your old emails from other services like Microsoft Outlook, Yahoo and even other Gmail accounts for free with its an inbuilt migration tool. Sign in to Gmail account, move to Settings then Accounts and Import and tap on Import Mail and Contacts. A new window will pop up to ask you 'What account do you want to import from?' Type your full email address from where you want to migrate from, press Continue and select Continue again to agree to the terms of use. Log on to your Yahoo account in a new pop up window and tap Agree to allow ShuttleCloud Migration can access your contacts and email and close that window after confirmation. Import options will automatically be displayed in the previous window, click Start import and it will start migrating all of the data which you have selected to import. The process will continue in the background but might take two hours or even two days to complete as it depends upon the size of the data. ■

## Type with Your Voice

Google Docs is one of the most widely used services across the globe which offers basic word processing features to make things easier for everyone. Besides other handy features, Docs also has built-in support of voice typing feature which facilitate users to type in their desired language without using a traditional keyboard. To activate this handy feature open Google Docs in Chrome and tap the '+' icon to create a blank document or open an existing document. Now, go to Tools and select 'Voice typing' from the drop-down menu. A microphone icon will appear on the top left corner which can be dragged and placed anywhere on the display. Click the icon and allow it to access the microphone. Now you can start speaking after tapping the microphone but you should use the feature in noiseless environment to avoid typing errors. ■

## Quick Facts

- A noise radar system is being tested in **Paris** to automatically ticket loud cars.
- Microsoft's next **Surface Pen** is expected to come with wireless charging technology.
- Apple's **iOS 13** is now available to download on compatible iPhones with the addition of dark mode, and more.
- Protected bike lanes are coming on **Lyft's** app to help riders find smoother routes.
- 4G flip phones, **Go Flip 3** and **SmartFlip**, will soon be available in the US with Google Assistant integration and other Google apps.
- **Wing's** delivery drones are prepping for takeoff in Virginia to deliver FedEx and Walgreens packages.
- **Verizon** is scheduled to launch a 5G network in New York on September 26th.
- **Apple** has applied to trademark the term 'slofie', a slow-motion video selfie feature in iPhone 11, to stop other companies from branding the terminology.
- **Google** is investing a record-breaking amount in renewable energy infrastructure across America and Europe.
- **Huawei** unveiled its Watch GT 2 featuring Bluetooth 5.1 support and storage for 500 MP3s and an impressive two-week battery life.
- **YouTube** will launch its updated verification system in October which will make it harder to earn coveted verified status.
- **Apple** announces a new fun feature to Music: time-synced lyrics.
- **Chrome 77** overhauled with new features for tab management and theme customization.
- **Microsoft** launched its latest Windows 10 Insider Build 18985 with a simplified Swift Pair feature for Bluetooth devices.
- Incognito Mode is being tested in **Google Maps**.
- **Salesforce** revealed a pollution tracking tool, Sustainability Cloud, to help companies monitor and analyze their environmental data.
- **Facebook's** Portal TV is a video chat camera accessory for television.
- **Instagram** is tightening restrictions on cosmetic surgery and diet products relevant posts.
- **Google Assistant** is now offering second voice options in nine countries.
- **Microsoft** may use liquid-powered hinges to reduce stress in foldable Surface devices.
- **Uber's** RideCheck feature to detect a vehicle crash has been released in the US.
- Huawei revealed its latest flagship smartphone, **the Mate 30**, in Germany, it will come without Google's Android apps.
- **Amazon** unveiled a virtual health care app for its employees: Amazon Care.
- India's **Chandrayaan-2** mission failed to make soft-landing on the lunar surface. ■

## Kids Corner

Parents are the people who keep a watch on their kids and tell them what is right and wrong for them. But this is the case in physical activities, as to keep an eye on what the kids do physically is an easy task. But, these days, kids spend most of their time on gadgets and their eyes are stuck on the screens. BBC has presented an app that will assist the teenage kids to deal with their hyper emotions. Own It app is basically a keyboard that emerges out whenever a kid or any person is typing. It reads the messages typed by the keyboard and gives advice, offers support and it can also recommend the user to talk to an adult they trust. When the id is typing something annoying, the app asks them whether they really wish to send that message. And when they are texting some personal details, the app asks them to think again before sharing such information. Perhaps the best thing for kids is that even though the app asks them to consult their elders or parents, but still it doesn't report their parents or sends them any feedback. Own It app has features to limit screen time and improves general digital wellbeing. It also has a diary to record kids' feelings. The people in the UK are having the app right now, but you can hope to get it soon. ■

## Specs of Samsung Galaxy S10

Samsung, the Korean tech giant unveiled the Galaxy S10 range, which is the most awaited phone range of the present year. The Galaxy S10 is having very impressive features. One of the best among these is the triple-camera setup consisting of a 12-megapixel wide-angle camera, a 16-megapixel ultra-wide-angle camera and a 12-megapixel telephoto camera on the back. This setup provides flexibility, a much greater level of zoom, and low-light performance. Now coming to the screen size, the smaller Galaxy S10 is having a 6.1in screen and a circular hole for the placement of the 10-megapixel selfie camera. The bigger one, the Galaxy S10+ comes with a 6.4in screen and there is a hole shaped like an oval in which a dual-selfie camera is placed for much better photos.



There is a very special version coming along the S10+ that has 12GB of RAM, features a ceramic back and a storage space of one terabyte. This much storage coming out for the first time for any mainstream phone. In simpler terms, with this much storage, you will be able to take 80 selfies each day for the next 10 years or 500 TV shows from Netflix. This much is possible even without using the 512GB microSD card. The phone is having a 3400 mAh battery which supports Fast Charging and can be charged wirelessly.

Additional features of the phone include Face Unlock features, an On-screen Fingerprint Sensor and a 3.5 mm headphone jack. For the money-saving people out there, Samsung is offering Galaxy S10e alongside the Galaxy S10 and S10+ which is somewhat smaller and cheaper featuring a flat 5.8in screen and on the side, there is a more traditional capacitive fingerprint scanner. The Galaxy S10 5G is coming with 3D depth-sensing cameras and a bigger display of 6.7in. ■

Maleeha Haris

## Apple iPhone Event 2019

Apple kicked off its much-hyped event at Steve Jobs Theater with the tagline "By Innovation Only" to announce new iPhones, an Apple Watch, a new iPad, and more. Apple CEO Tim Cook took the stage to



launch the iPhone 11, the successor of the iPhone XR, which is consisted of a 6.1-inch (1792 x 828-pixel) Liquid Retina display, a glass and aluminum body and is powered by Apple's new A13 Bionic chip. The iPhone 11 has a new design in six colors along with two 12-megapixel camera lenses including an ultra-wide-angle lens and a regular wide-angle lens.

On top of that, the iPhone 11 Pro and its big brother Pro Max stole the show with three cameras, improved computational photography and more. The Pro and Pro Max models also have Night Mode which offers to take high-quality photos in much lower lighting. Apple also coined the term 'slofie' to define a slow-motion selfie feature in iPhone 11 and iPhone 11 Pro models and applied to trademark the term to stop other companies from branding the terminology. The Cupertino Company also unveiled Watch Series 5 that features a new always-on display, more rounded corners, a new Compass app, and other nice touches. Apple also showcased the new seventh-generation iPad in the event which will go on sale on September 30. The new iPad features a stunning 10.2-inch retina display, Apple Pencil, the fast A10 Fusion chip, advanced cameras and sensors, unmatched portability and connectivity and Smart Keyboard support. ■

## Sneak Peek

Coming up in November Issue

- **Google's Pixel 4 Event**
- **15 Hidden Instagram Feature**
- **A Prince's \$500 Billion Desert Dream**
- **How to Create Your Personal WhatsApp Stickers**
- **Kids Corner & a lot more**

**Don't Miss Out The Latest Technology Insights**

Subscribe now at <http://www.skylite.com/subscription>

**We Want To Hear From You**

Send your feedback at [thevoice@skylite.com](mailto:thevoice@skylite.com)



**WE ARE HIRING!**

Managers	Executives
<ul style="list-style-type: none"><li>▪ HR Manager</li><li>▪ Sales Manager</li><li>▪ Graphics Manager</li><li>▪ Development Manager</li><li>▪ eCommerce Project Manager</li></ul>	<ul style="list-style-type: none"><li>▪ HR Executive</li><li>▪ Telesales Executive</li><li>▪ Graphics Executive</li><li>▪ Content Writer (In house)</li></ul>

**Requirements:** Must have relevant degree & experience

**Interested Candidates send their CV to**

[hr@skylite.com](mailto:hr@skylite.com) [jobs@skylite.com](mailto:jobs@skylite.com) [skylite.com/careers](http://skylite.com/careers)

**Join Our Team**

