

# Wireless Technology :Weapon Against The War of COVID-19

Dr. Nayan. S. Patel  
Assistant Professor  
Sardar Patel Education Trust, Anand  
Sardar Patel University,  
9428783058, Gujarat, India.  
Email: [nspatel99@gmail.com](mailto:nspatel99@gmail.com)

Mr. Premal Soni  
Assistant Professor  
Sardar Patel Education Trust, Anand  
Sardar Patel University,  
9428543564, Gujarat, India.  
Email: [premalsoni1943@gmail.com](mailto:premalsoni1943@gmail.com)

## ABSTRACT:

India is a developing country. Due to outbreak of CORONA viruses many peoples of India are suffering directly or indirectly. The current time is consider as an emergency time Government has already made lot of efforts to control this worldwide epidemic and luckily India is in very comfortable position as compare to super power USA and other country like Italy and many more developed country as far as the infection of CORONA virus diseases is concern. Of course credit goes to Government as well as citizens of India but at the same time still to minimize the effects of any epidemic, technology play an important role and wireless technology is one of that technologies. In this article how wireless technology is work and applications of wireless technology work as a preventive measure against the war of COVID-19 is discussed.

## KEYWORDS

*WHO, Infrared, Lightwave, QR Code , IoT, Google, Facebook, URL.*

## I INTRODUCTION

With the rapidly increases number of COVID-19 cases dangerously more than ten lakhs and the worldwide death toll crossing more than two lakhs and the World Health Organization (WHO) declared the virus outbreak a pandemic in the second week of March 2020, 10 months after the novel virus first made headlines. Nearly all countries of the world are steadily already passed out from the lockdown, and businesses across the globe are operating in fear of an impending collapse of global financial markets. This situation, clubbed with sluggish economic growth in the previous year, especially in a developing country like India. [1]

Today India goes toward digital so now there is demand of integration of our society to Information technology by web, mobile, internet etc. Today the usage of various Social networking sources like Twitter, Blogs, Whatsapp, Facebook ,telegram etc. has been raised up. Wireless technology plays an important role in day to day life. Besides communication, wireless technology has become an integral part of our daily activities. The transmission of data or information from one place to another without any physical medium is referred as wireless communication. Wireless communication provides an exchange of data without any conductor.

## II TYPES OF WIRELESS COMMUNICATION

Figure 1 Model of Wireless Technology [3]

Different types of signals are used in communication between the devices for wireless transmission of data. The following are the different electromagnetic signals are used depending on their wavelength and frequency. [2]

- Radio Frequency Transmission
- Infrared Transmission
- Microwave Transmission
- Lightwave Transmission

## II Model of Wireless Technology

Wireless technology work without any physical medium but it having a so many intercommunication channels.

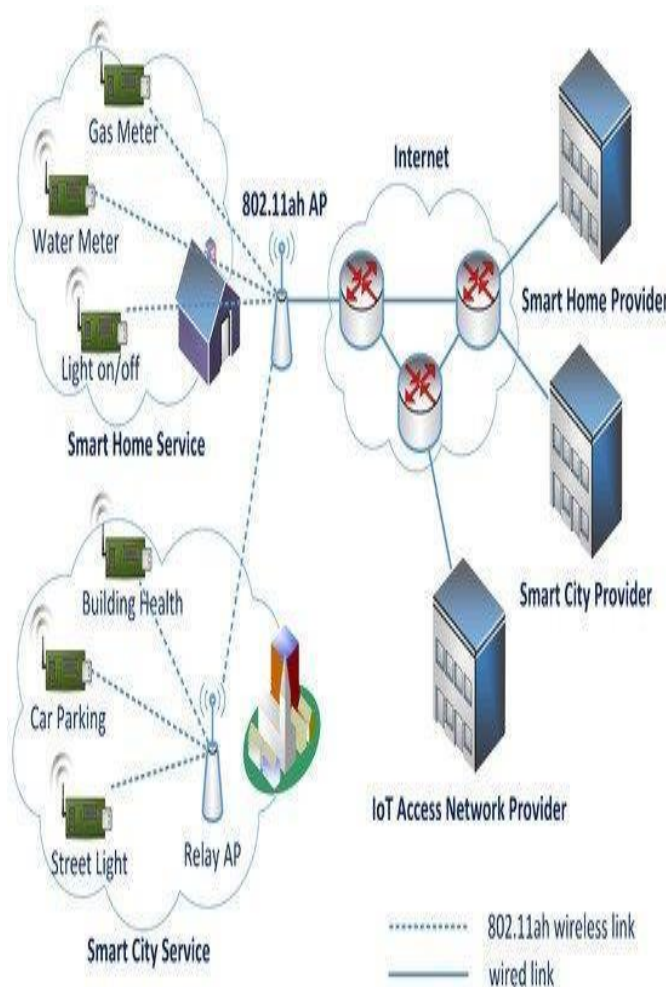


Figure 1 shows that model of wireless technology model having a so many channels via that channels it gives messages from source port to destination port. Model also work in smart home and IoT unable accessible devices.

## III Wireless Technology Applications In Covid-19[4]

### [1] Colour Coded QR

Alipay Health Code, a quarantine determination project set to have nationwide implementation is an app developed for the local Hangzhou Government with help from Alibaba's sister company Ant Financial. The app colour codes a citizen's risk factor as red, yellow or green when entering public transportation, office or even one's apartment through scanning a QR code. This can be accompanied with name, ID number, temperature and recent travel history. Neither Chinese officials nor Alipay have detailed how people are classified by this system. It is speculated the app uses Big Data sourced from transport agencies, health centres, and state-owned firms to identify potential carriers of the virus.

### [2] Drones and Autonomous Vehicles

Cities under lockdown, are using drones to transport medical supplies, patient samples and even spray disinfectant across large areas. According to authorities aerial tech is an effective way to scan and identify someone needing medical attention and warn those not wearing masks.

Some countries have also nurtured self-driving, autonomous vehicle platforms such as Baidu's Apollo. They are proving to be effective at reducing human contact and ensure delivery of essential supplies. Tech giants like Alibaba and DIDI are contributing their computing power to help hospitals perform diagnoses and possibly find a cure.

### **[3] Allocation of Health Resources**

The U.S. government and public health experts are considering taking the help of private companies to aggregate anonymous smart phone location data. It could be a powerful tool to pinpoint the next hotspot or allocate health resources, talks are underway with Google and Facebook on this.

### **[4] Mobile Application Development**

Indian government via Ayush department inform and insist all citizen of India to install Aarogya Setu application in every smartphone. In other countries also multiple apps were built to help track the virus spread by sourcing data from publicly available government information. Using the "Corona 100m" app one can determine their proximity to a coronavirus patient. The government also notifies on the movements of people who have tested positive via smartphones alerts.

### **[5] Use of Robotics**

There is only one cure of Corona virus is a social distancing but there is also need to provide all assistant to infected people so robotics play

important role for normal services like food and medical distribution which can possible without any physical touch of human to human.

### **[6] Web URL Development**

Many countries adopted a different method to tackle the pandemic. People have imposed self-quarantine since the initial days of the outbreak. The ones required to isolate themselves are contacted multiple times a day to click an online link and share their phone's location. With successful tracking of infected individuals, this proves to be an effective method. Cyber monitoring would be deployed to track individuals who tested positive in real-time through their mobile phones to catch breaches in quarantine. [4]

## **IV**

### **Conclusions**

The discussion given in this paper has briefly overviewed our current world wide epidemic COVID-19 due to this global epidemic many countries were passed under lockdown phase. Many people's all over the world were infected and died. This virus is spread from infected human to healthy human and touches of surface which was earlier touch by infected person so there is a need to use wireless technology. It can minimize the effects and help to revive the world once again from lockdown mode to regular mode.

## **V**

### **References**

1. COVID-19: Making the best use of technology, data and information. (2020, April 13). Express Computer. <https://www.expresscomputer.in/guest-blogs/covid-19-making-the-best-use-of-technology-data-and-information/52933/>
2. Different types of wireless communication technologies. (2019,

- December9).TypesnUses.com. <https://www.typesnuses.com/different-types-wireless-communication-technologies/0>
3. Network, B. (2020, April 4). COVID-19 and its impact on Indian economy. BFSIPost. <https://bfsi.eletsonline.com/covid-19-and-its-impact-on-indian-economy/>
  4. Sensors. (n.d.). MDPI - Publisher of Open AccessJournals. [https://www.mdpi.com/journal/sensors/special\\_issues/next\\_generation\\_wireless](https://www.mdpi.com/journal/sensors/special_issues/next_generation_wireless)