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Intelligent Sensing Systems for Novel Corona Virus Disease Management

Souvik Ganguli

Thapar Institute of Engineering & Technology, India

Abstract

The paper addresses a very recent topiccorona virus or covid-19 that has put the entire world on a back-foot. The pandemic stretched out its wings in each single region of the globe. Since its outbreak, researchers are struggling hard to diagnose, monitor and provide successful treatment to get the persons come out of this disease. While one wing of researchers is involved in developing medicines and vaccines to combat this pandemic, the other set of researchers are aiming for an early detection of the symptoms, monitor the conditions of the affected persons, and suggest for a possible cure with the help of several artificial intelligence (AI) techniques. Even the chest congestion classification that occurs due to pneumonia and COVID-19 needs a quick detection for its treatment and cure. Additionally, artificial intelligence has phenomenal for monitoring management of urban health. Also, using CT image processing, Al played an important role in the automated identification and patient monitoring. Moreover, block chain technology was applied for self-assessment of COVID-19 along with Al-based process. With the aid of smartphone built-in sensors, few researchers have investigated the diagnosis of corona virus. For the diagnosis of this infectious disease even expert systems were employed. Therefore, a new outlook on the use of technology in medical education since the COVID-19 pandemic is very clear. diagnostic aid with AI method for suspected COVID-19 patients with fever symptoms was also suggested. This paper thus provides an investigation on the intelligent sensing systems to diagnose, monitor and support early detection to the medical practitioners in order to avoid high mortality rates that the present world is suffering right now.

Computerized reasoning (AI) includes utilizing PCs to do things that generally require human knowledge. This implies making calculations to group, break down, and draw expectations

from information. It additionally includes following up on information, gaining from new information, and improving after some time. Medical diagnosis (abbreviated Dx or DS) is the process of determining which disease or condition explains a person's symptoms and signs. It is most often referred to as diagnosis with the medical context being implicit.

Al includes utilizing PCs to do things that generally require human insight. This implies making calculations to group, investigate, and draw expectations from information. It additionally includes following up on information, gaining from new information, and improving after some time.

The motivation behind a specialist framework is to give contemplated exhortation at a tantamount level to that gave by a human master. This capacity has two fundamental points: to improve the capacities of driving specialists in specific fields and to make a significant level of skill accessible to less profoundly qualified experts.

A novel coronavirus is a new coronavirus that has not been previously identified. The virus causing coronavirus disease 2019 (COVID-19), is not the same as the coronaviruses that commonly circulate among humans and cause mild illness, like the common cold, Cough, fever.

Keywords: Novel corona virus; artificial intelligence (AI); block chain technology; expert systems; health diagnosis and monitoring.