

Chapter 9

Social Health Protection During the COVID– Pandemic Using IoT

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ABSTRACT

The agenda of this book chapter is to review existing technologies that aid societal health protection and recommend some possible approaches which will assist the mentioned scenario. Automations like big data and artificial intelligence (AI) deployed in healthcare sector can expedite pandemic response in ways that are strenuous to achieve all in all by humans. The sudden epiphany to trace COVID-19 in public has powered the innovation of data dashboards that visually unveil coronavirus epicentres. A cloud-based AI-assisted CT service is being engaged to differentiate pneumonia from the pandemic which dwindles risk factor in the present school of thought of the citizens worldwide. In conclusion, social health protection was an indispensable mechanism in prior to these challenging times and is escalating by prominence for delivering support to individuals during the crisis.

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INTRODUCTION

The COVID-19 pandemic has engulfed the Indian subcontinent as well as affected people on a global scale, where it has caused damage not only physically but also socially and mentally. To tackle such problems, a new urge has surfaced to develop new innovations in this needed hour. In the wake of the pandemic, this book chapter is an ensemble effort in introspecting every aspect that is related to shielding the public's health through the deployment of various evolved and unacknowledged yet potential technologies that can aid the Earth in battling the present appalling circumstances.

Understanding social health in order to deploy efforts in fortifying the majority of the population against the virus's helix has become critical. In support of the above statement, for an individual's wellbeing, physical health is not the only determining parameter, one should also be mentally stable and active. The highlighted crisis has caused an unhealthy uplift in negative feelings, which has in turn affected mental health and greatly impacted the social ladder to the point where deaths due to mental stress and psychological breakdown are seen to compete with Coronavirus deaths. Taking the perilous reverberations of the pandemic into consideration, the call for an upsurge in spreading awareness of social health protection has become the main requisite, followed by elaborating on them in an outright manner, which will prevent such psychological complications.

The present epidemic has demonstrated that society can adapt and respond efficiently and adequately to any crisis owing to the advancements in science and technology. The brisk growth of cities in recent decades has turned them into pandemic epicenters, while their inhabitants have a higher risk of getting affected by coronavirus. Therefore, the eye of the world, at present is on developing advanced technologies to efficiently fight the crisis at hand. Although the COVID-19 pandemic is still ongoing, and it is too early to fully correlate the apparent edge of digital technologies to the pandemic's corresponding actions, it is an agreeable notion that the cornerstones of flattening the curve of COVID-19 cases are the paragon of technology and the conglomerated concept of social health. The emerging consensus is that smart healthcare plays an essential role in a comprehensive response to supplementing traditional social wellbeing strategies, and thus contributes to reducing the negative effects of COVID-19 on the human and economic aspects of a nation.

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