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Big Data focused information mining on pandemic era: COVID-19 analysis, challenges and impacts

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In the modern era, information technology based applications significantly impact the global pandemic like COVID-19. The research areas like big data and data mining can serve as the platform for the execution of information technology based solutions. These applications affect daily life activities and assist us to deal with epidemiological situations. COVID-19 was emerged as a global pandemic in 2019. From the initiation of the COVID-19 era to the present scenario, there is huge drift in the progress of society in different sectors. These sectors include healthcare, education, transportation, military etc. Dramatic changes have been observed in the economy after the COVID-19 scenario. The steep fall in the economy of different nations has been analysed in the past. Now, the entire world is recovering from this pandemic era and economy is recovering with the time. There is a significant role of data mining and analysis to plan the forthcoming applications in order to deal with such pandemic situations. Machine learning and online analytical processing can be applied to extract the information related to pandemic like symptoms, number of patients suffered, recovery rate, death data etc. This information can only be helpful for the society if it has stored in the databases across the globe. This can only be evaluated if there remains availability of rich data from different sources in the repositories. From these repositories, information can be retrieved to deal with pandemic situations and plan for corrective and preventive measures. Data science serves as an effective way to cope up with various problematic situations like COVID-19 and can be extended to the spatial databases for extracting the information related to epidemiological diseases.Technological compliant solutions are required to handle the pandemic situations. Recommendations have been suggested to incorporate technology based applications.

Biography

Vinod Kumar Verma is an Assistant Professor in the Department of Computer Science and Engineering at Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, India. Dr Verma has published many research papers in the International Journals of IEEE, Springer, Elsevier, Taylor and Francis. Dr. Verma is also serving as Editorial Board Member / Reviewer for many International Journals like IEEE Sensor Journal, USA, IEEE Transactions on Neural Networks and Learning Systems, USA, ELSEVIER Computer Networks: The International Journal of Computer and Telecommunications Networking, SPRINGER EURASIP Journal on Wireless Communications and Networking, SPRINGER Journal of Computers in Education, The Journal of Systemics, Cybernetics, and Informatics (JSCI)", IIIS, Florida, USA, International Journal of Communication Systems. Wiley Publications, International Journal of Distributed Sensor Networks (IJDSN), SAGE Publishing, UK, Dr Verma has served many International conferences in different capacities at UK (2012), USA (2014), JAPAN (2015), ITALY (2016), AUSTRALIA (2017), FRANCE (2018).