Case Based Reasoning Framework for COVID-19 Diagnosis

Abstract:
The expanding area of Artificial Intelligence is playing a vital role in healthcare practices and research, and as medical field is rich in data can become difficult to interpret, the AI techniques present the preeminent solution to enhance the medical field achievements, thus as novel epidemiology and pathogens presents a critical and emerging issue for global health, the aim of the work presented in this paper is to structure a CBR framework that aid in the patients diagnosis of novel epidemiology presence, the novel pandemic Coronavirus disease (COVID19). The objective of this study is to highlight the Case Based Reasoning (CBR) AI method which is one of the most successful applied methods in the medical field, used for analysis, prediction, diagnosis, and recommendation treatment. This study proposes a CBR conceptual framework for COVID-19 disease prediction, able to aid in the diagnosis, to provide self-health assistant and to guide people in self testing and checking.

Keywords:
machine learning, case based reasoning, clustering, classification, COVID-19 pandemic, diagnosis, prediction

1. Introduction
2. Case Based Reasoning and the Medical Field
3. The Epidemiology and Pathogenesis of Corona Virus Disease (COVID19)
4. Case Based Reasoning Framework for COVID-19 Diagnosis
5. Conclusion and Future Work

References
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