ARIMA models forecasting the SARS-COV-2 in the Islamic Republic of Iran

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Currently, the COVID-19 epidemic has spread to more than 210 countries, with 3 272 202 confirmed cases and 230 104 deaths globally as of 3rd May 2020. Iran is found as the hotspot region of COVID-19 in the Eastern Mediterranean with more than 93 thousands confirmed cases and 5 957 deaths until 30th Suppression strategies especially case isolation, elective home quarantine, and other mitigation approaches such as the closure of educational centers and transmission control by the lockdown of social activities are applied to reduce the basic reproduction number to less than 1[2]. The strategies have achieved varying degrees of success in different countriesThe autoregressive integrated moving average (ARIMA) models were developed to determine the temporal patterns and short-term prediction