Introduction

Corona Virus disease was declared as the pandemic situation by the World Health Organisation since March 2020. A major public health issue exists due to high risk of transmission nature of the virus and possibility for death. Governments are implementing widespread interventions, such as lockdown, isolation, and quarantine, limitations on travel, cancellation of social activities, and thorough testing, to stop the spread of COVID19. To comprehend the effects of these actions on the epidemic control Stochastic Cellular Automaton is proposed in this paper. (Computational Model on COVID‑19 Pandemic Using Probabilistic Cellular Automata Sayantari Ghosh1  · Saumik Bhattacharya) Unlike the deductive method of studying science using mathematical assumptions and consequences, Simulation has bring us much more realistic behaviour. It is because the deductive method fail to include the stochasticity. This problem is very common in the social sciences. (SIMULATION MODELING IN ORGANIZATIONAL AND MANAGEMENT RESEARCH J. RICHARD HARRISON ZHIANG LIN University of Texas at Dallas) Computer simulation has been recognized as new method of approaching to a conclusion. The practicality of the simulation is high due to the ability of generating its own virtual data. While, The classic compartmental SIR model has a demerit of not understading the pattern of the spread of the disease and the mobility of the infected is not taken into consideration. This simulation is would like to bring out the insights of how the travel restriction would bring out the changes in the demography of the disease spread. So that the governing body could make an informed idea about the rules to be implied on the city or country. When the covid was virus was identified as very contagious disease the government in most countries has taken adverse action to curb the spread of disease. This was at a very huge cost. The economy almost came to stand still with the severe lockdown. (COVID-19 policies in Germany and their social, political, and psychological consequence)People had to stay indoors as per the rules. It was inapplicable to keep the lockdown in effect for long time. Thus the lockdown restriction was made lenient with less strict rules. This also gave way to increase the spread of the disease in a very huge scale. Government weighed both deaths and spread during the lockdown to make a decision for the rules in the each wave of the covid spread. Thus it has become important to have the spread dynamics studied. Stochastic cellular Automaton presented in this paper is aiming to give the similar required insights.