

SEMINARIOS LECTURA PAPERS COVID19

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Título: Reproduction matrix for an epidemic and lockdowns in a city.

Abstract:

We consider an epidemic spreading in a city which is divided geographically into different districts. We introduce the reproduction matrix $R = R(i, j)$ between districts, where $R(i, j)$ is the mean number of individuals in district j infected by an individual from district i . We analyse policies of partial lockdowns of the city, that is of a set of districts, based on the study of matrix R , where rows and columns corresponding to districts in lockdown are set to zero. This schema can also be applied to a country divided into regions or other appropriate units, provided the relevant information is available. We conclude by analyzing a matrix R which was constructed for the spread of COVID-19 in Santiago, Chile, with the aid of an agent-based simulator for generating surrogate district data

Paper está disponible en el link: <http://arxiv.org/abs/2005.09556>

Miércoles 10 de Junio a las 15:00 hrs. Modalidad Vía Online.

URL: <https://uchile.zoom.us/j/82536907920?pwd=aVFzQ2pxWE5LNXhQUWRWNExESCtNdz09>

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