

Covering and localization problems

Other fields in which Operations Research might help:

How to cope with reduced offer for critical services?

- public transportation. Although social distancing needs to be further promoted, demand for transportation needs to be satisfied. Although, the offered service needs to be reduced, both for scarce availability of drivers, and for low demand.

Which bus lines to maintain active in order to cover the region where demand for transportation arises?

- Set covering models: which facilities, (shops, gasoline stations, ...) are we allowed to maintain open so that they are as few as possible, yet they cover current needs?
- Set packing models: which facilities (supermarkets, shops, ...) should we keep open so that they are as much as possible, yet no two are "too close" each other?
- obnoxious path planning: how to choose a path which minimizes contact events