

Height of dummy:

Front (source): 172 cm

1st row (on bike rack): 176 cm

2nd & 3rd row (on trailer): 168 cm



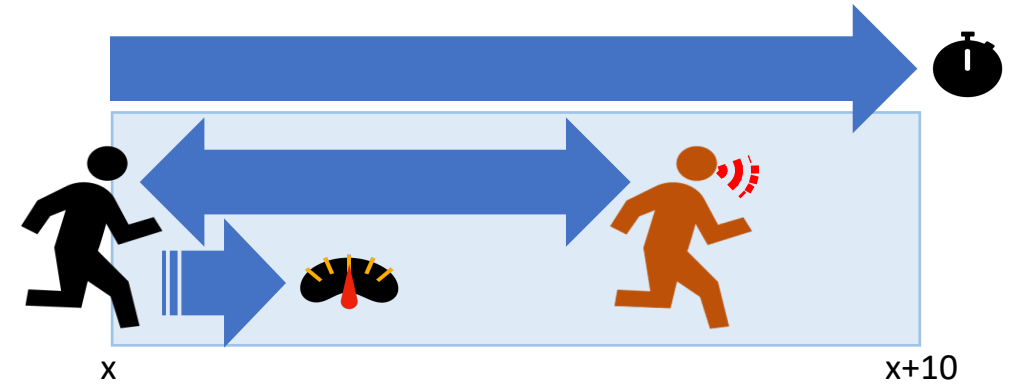
1

Define the runner population: randomly attribute speed, starting time, who is virus-positive, and how much virus each positive case emits.



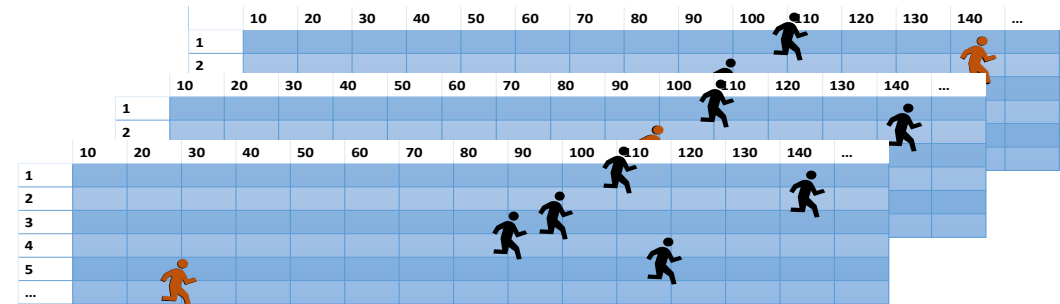
2

Compare all runner pairs in all segments. Model virus transfer when an infected is in front. For the time in this segment, randomly take from the experimental transfer rates one that fits in terms of distance and speed.



3

Repeat steps 1 and 2 for 1000 races. In each race, the runners have different speeds, and different runners will be virus-positive at different viral emission strength.



4

Execute the above steps for different starting regimes and number of starting runners.

