Capstone (No redistribution)

Code:

i=0 refers to MRT

i≠0 refers to kiosk

3 dimensions: Location, time period in a given day, day

Input Parameters:

(Initialization Strategy: Assign no scooter at MRT and distribute the number of scooters at a kiosk based on population density)

Output Parameters:

Operators:

Simulation Algorithm:

* Initialize 210 scooters in the system
* Initialize

For every n in 100 days,

For every time period, t (15-minute interval),

1. Generate and
2. Compute :
3. Compute :
4. Compute
5. Compute
6. Update

Update

Output Statistics:

Average demand per day,

Average lost demand per day,

Average profit per day,

Maximum Supply Matrix with shape (# locations, #days),