system_total_waiting_time 1600 --- PPO Ideal Training PPO Camera Training 1400 PPO GPS Training system_total_waiting_time (s) --- PPO Ideal Simulation PPO Camera Simulation 1200 PPO GPS Simulation Greedy 1000 Max_Pressure Fixed Timings 800 600 400 200 0 10 20 0 30 40 50 **Episodes**

system accumulated waiting time (100) system_accumulated_waiting_time (100) (s) PPO Ideal Training PPO Camera Training 15000 PPO GPS Training --- PPO Ideal Simulation PPO Camera Simulation 12500 PPO GPS Simulation Greedy 10000 Max Pressure Fixed_Timings 7500 5000 2500 0

30

Episodes

40

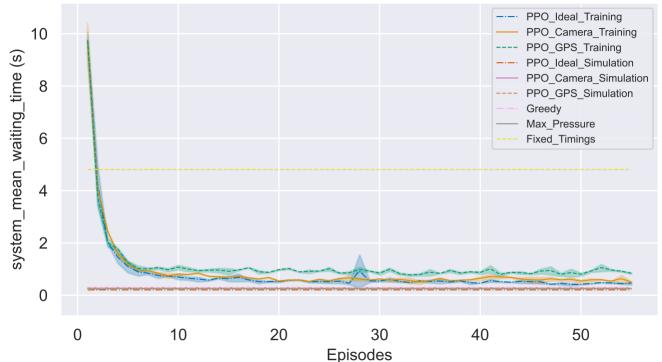
50

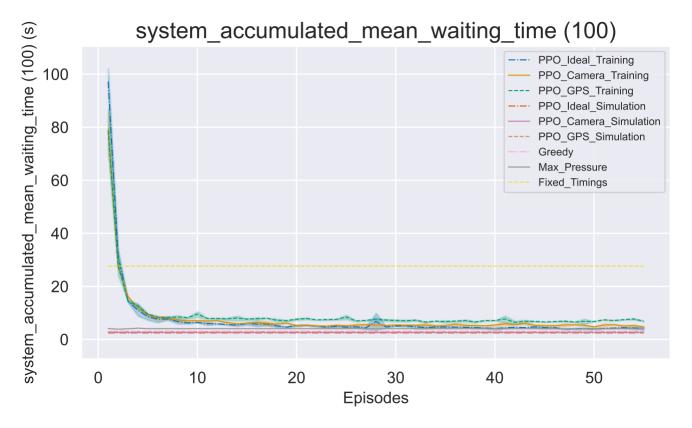
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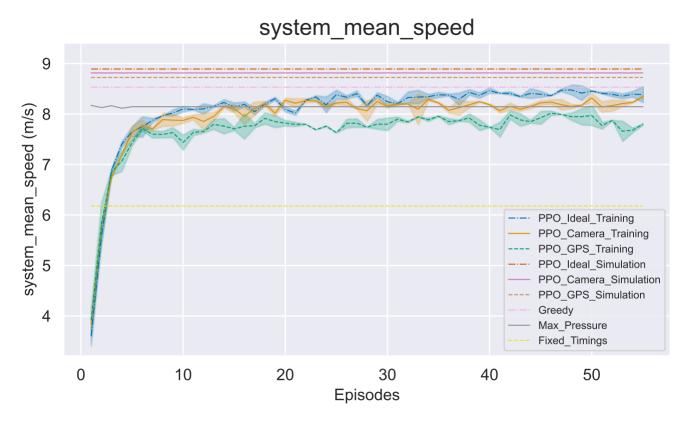
10

system_total_stopped 70 --- PPO Ideal Training system_total_stopped (stopped vehicles) PPO Camera Training PPO GPS Training --- PPO Ideal Simulation PPO Camera Simulation PPO GPS Simulation Greedy Max Pressure Fixed Timings 10 20 0 30 40 50 **Episodes**

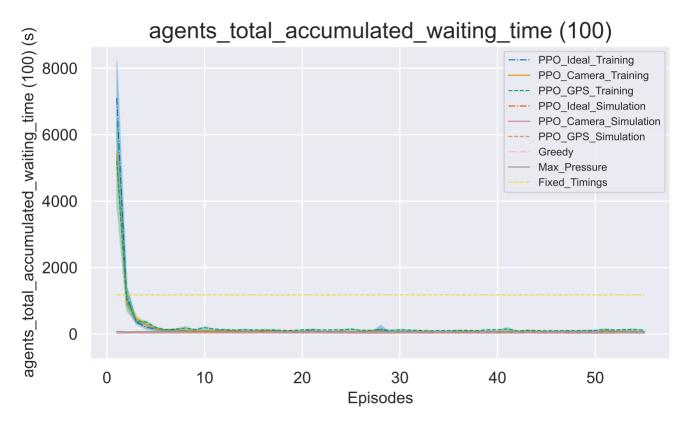
system_mean_waiting_time







system_cars_present --- PPO Ideal Training 140 PPO Camera Training PPO GPS Training --- PPO Ideal Simulation PPO_Camera_Simulation 120 system_cars_present ---- PPO GPS Simulation Greedy Max Pressure 100 Fixed Timings 80 60 40 10 20 30 40 50 **Episodes**



agents_total_stopped --- PPO Ideal Training 60 agents_total_stopped (stopped vehicles) PPO Camera Training PPO GPS Training --- PPO Ideal Simulation 50 PPO Camera Simulation PPO GPS Simulation Greedy Max Pressure Fixed Timings 10 0 10 20 30 40 50 **Episodes**

agents_mean_waiting_time (100)

