# Crowd Evacuation Simulation Dashboard

Current Statistics

RANDOM: 8 / 120 | PSO: 109 / 120 | SFM: 57 / 120 | PSO SFM(STAFF ALL EVACUATE): 74 / 120 | PSO SFM(STAFF ALL ASSIST): 115 / 120 | PSO SFM(HALF ASSIST): 119 / 120 | PSO SFM(ASSIST MOBILE): 100 / 120 | PSO SFM(ASSIST ELDERLY): 80 / 120 | PSO SFM(TOP EVAC): 114 / 120 | PSO SFM(AVOID TOP): 109 / 120 | PSO SFM(ZONE SWEEP): 117 / 120 | MFO SFM: 29 / 120 | ACO SFM: 62 / 120 | Time: 199s

| Algorithm	Evacuated	Deaths	Deaths by Floor	Evacuated by Age	Staff vs Civilian
filter data...					
RANDOM	8 / 120	112	Floor 0: 44, Floor 1: 40, Floor 2: 28	adults: 3/62, children: 1/21, elderly: 4/37	Staff: 0/15, Civilian: 8/105
PSO	109 / 120	11	Floor 0: 3, Floor 1: 5, Floor 2: 3	adults: 54/62, children: 21/21, elderly: 34/37	Staff: 109/15, Civilian: 0/105
SFM	57 / 120	63	Floor 0: 11, Floor 1: 33, Floor 2: 19	adults: 29/62, children: 11/21, elderly: 17/37	Staff: 7/15, Civilian: 50/105
PSO SFM(STAFF ALL EVACUATE)	74 / 120	46	Floor 0: 5, Floor 1: 29, Floor 2: 12	adults: 35/62, children: 14/21, elderly: 25/37	Staff: 15/15, Civilian: 59/105
PSO SFM(STAFF ALL ASSIST)	115 / 120	5	Floor 0: 3, Floor 1: 2	adults: 61/62, children: 21/21, elderly: 33/37	Staff: 10/15, Civilian: 105/105
PSO SFM(HALF ASSIST)	119 / 120	1	Floor 0: 1	adults: 61/62, children: 21/21, elderly: 37/37	Staff: 14/15, Civilian: 105/105
PSO SFM(ASSIST MOBILE)	100 / 120	20	Floor 0: 2, Floor 1: 14, Floor 2: 4	adults: 57/62, children: 19/21, elderly: 24/37	Staff: 15/15, Civilian: 85/105
PSO SFM(ASSIST ELDERLY)	80 / 120	40	Floor 0: 5, Floor 1: 26, Floor 2: 9	adults: 34/62, children: 13/21, elderly: 33/37	Staff: 15/15, Civilian: 65/105
PSO SFM(TOP EVAC)	114 / 120	6	Floor 0: 5, Floor 1: 1	adults: 59/62, children: 21/21, elderly: 34/37	Staff: 11/15, Civilian: 103/105
PSO SFM(AVOID TOP)	109 / 120	11	Floor 0: 1, Floor 1: 9, Floor 2: 1	adults: 59/62, children: 20/21, elderly: 30/37	Staff: 6/15, Civilian: 103/105
PSO SFM(ZONE SWEEP)	117 / 120	3	Floor 0: 1, Floor 1: 2	adults: 61/62, children: 21/21, elderly: 35/37	Staff: 13/15, Civilian: 104/105
MFO SFM	29 / 120	91	Floor 0: 29, Floor 1: 44, Floor 2: 18	adults: 15/62, children: 7/21, elderly: 7/37	Staff: 4/15, Civilian: 25/105

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Random

Deaths by Floor Over Time (Random)
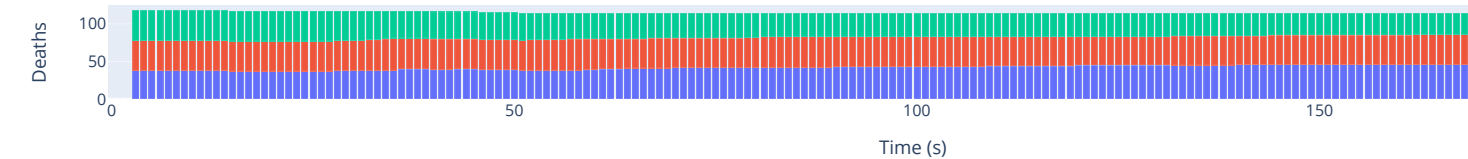
Evacuated by Age Over Time (Random)
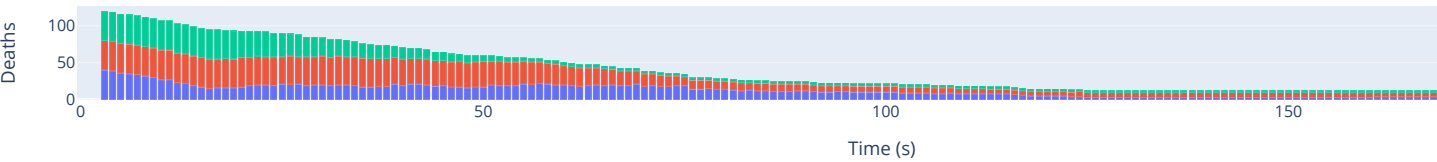
Evacuated by Age Over Time (Random)
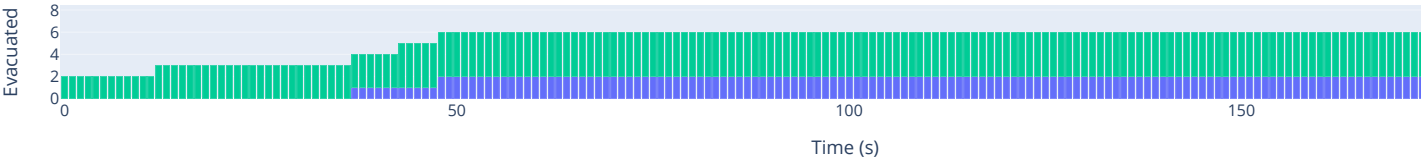
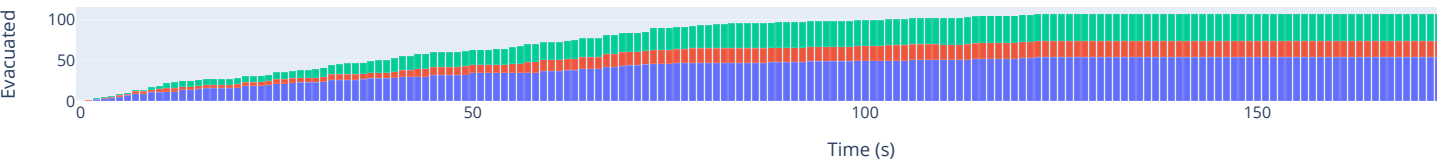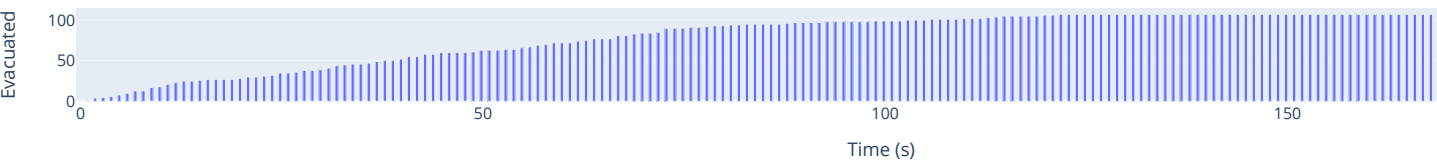Staff vs Civilian Evacuation Over Time (Random)

PSO

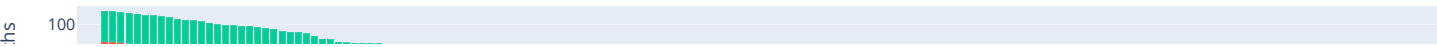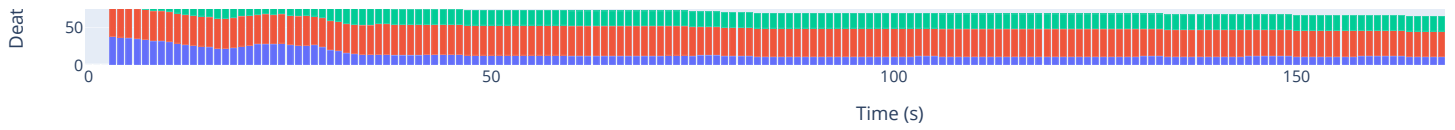Deaths by Floor Over Time (PSO)

Evacuated by Age Over Time (PSO)

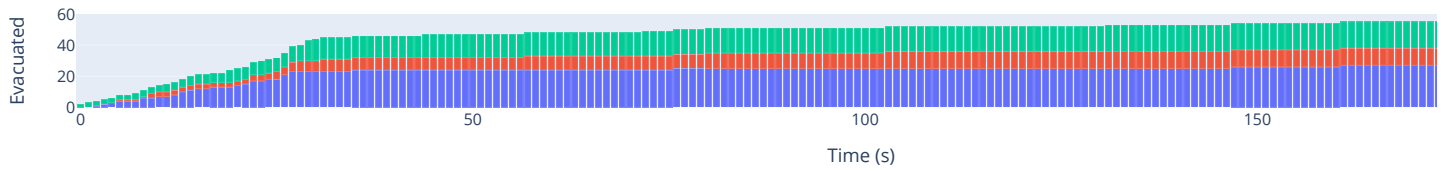Staff vs Civilian Evacuation Over Time (PSO)

SFM

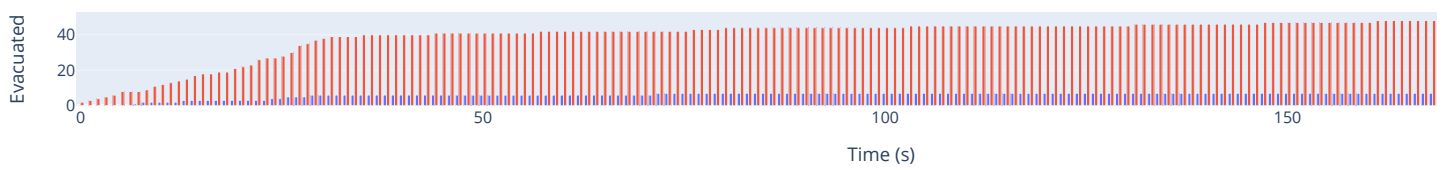Deaths by Floor Over Time (SFM)

Evacuated by Age Over Time (SFM)

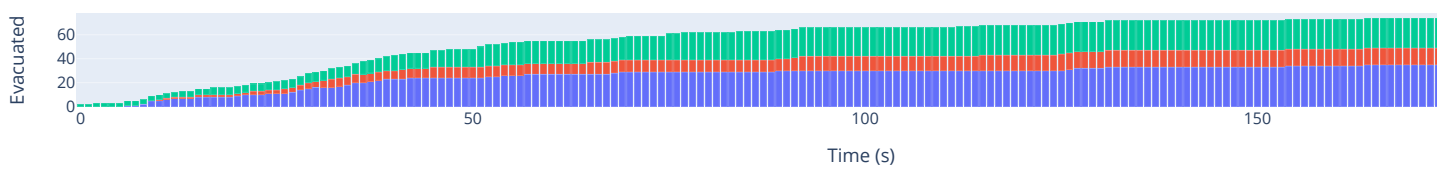## Staff vs Civilian Evacuation Over Time (SFM)
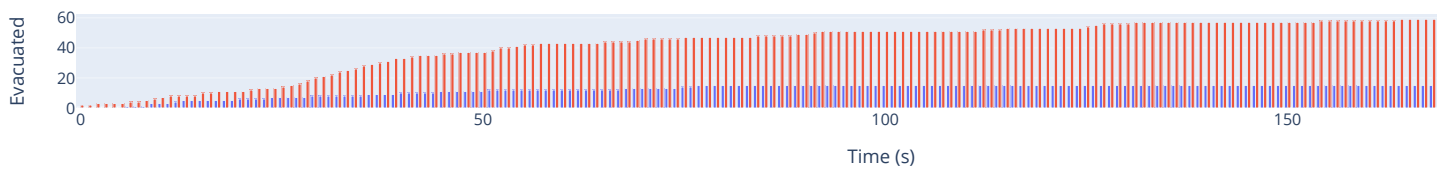

PSO SFM(Staff all evacuate)

Deaths by Floor Over Time (PSO SFM(Staff all evacuate))
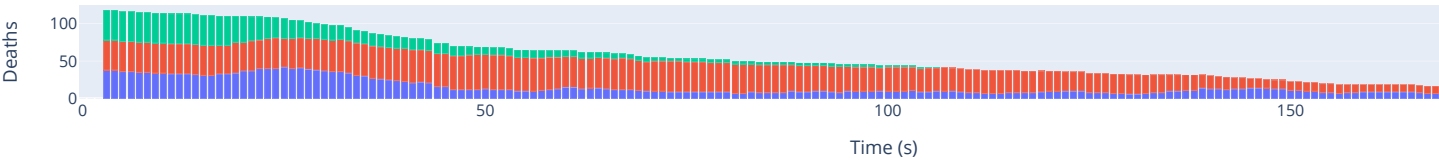

Evacuated by Age Over Time (PSO SFM(Staff all evacuate))

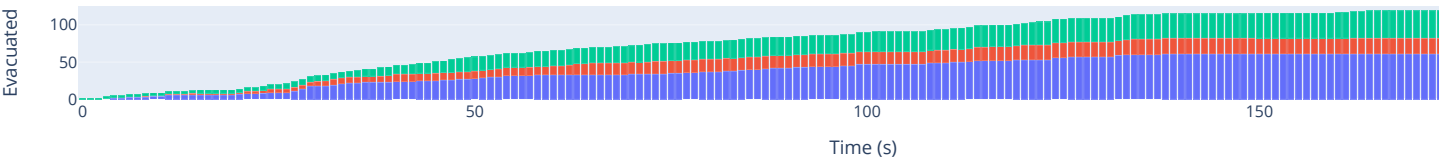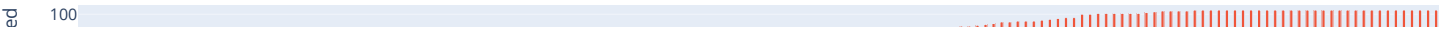## Staff vs Civilian Evacuation Over Time (PSO SFM(Staff all evacuate))

PSO SFM(Staff all assist)

Deaths by Floor Over Time (PSO SFM(Staff all assist))

Evacuated by Age Over Time (PSO SFM(Staff all assist))
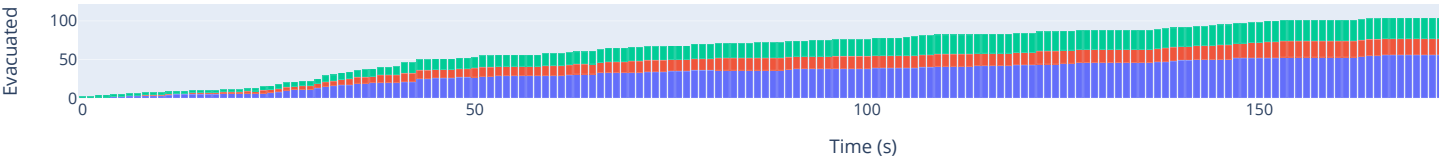
Staff vs Civilian Evacuation Over Time (PSO SFM(Staff all assist))

PSO SFM(Half Assist)

Deaths by Floor Over Time (PSO SFM(Half Assist))
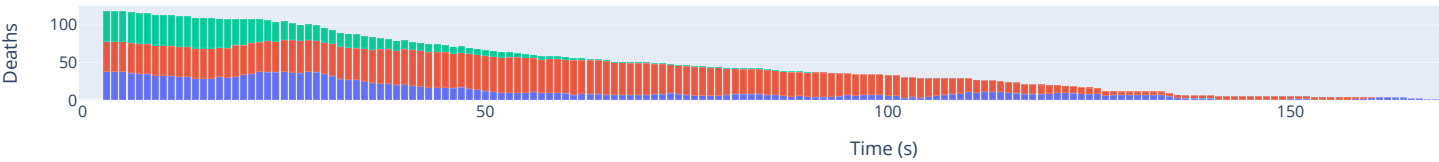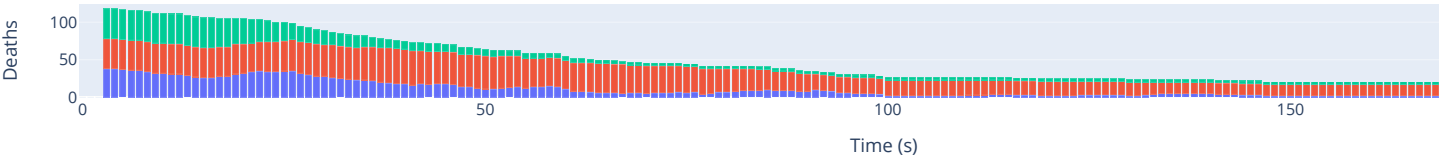

Evacuated by Age Over Time (PSO SFM(Half Assist))

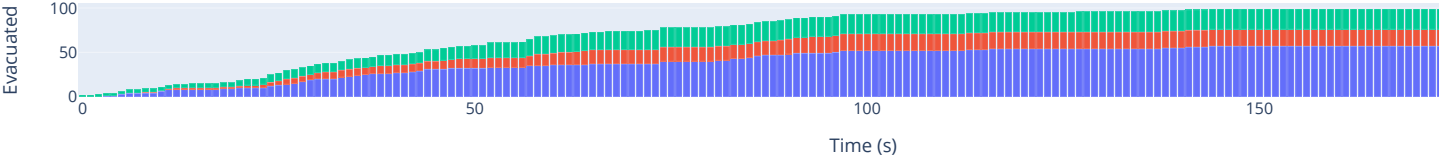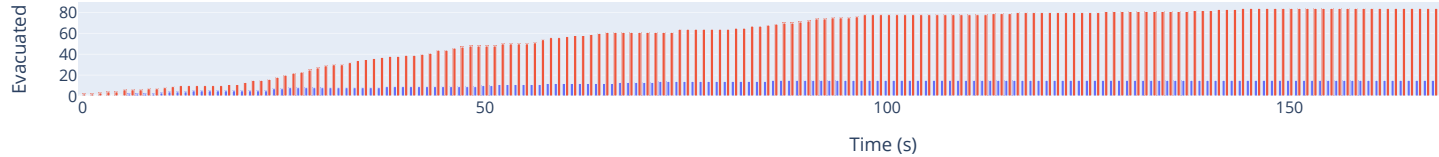
Staff vs Civilian Evacuation Over Time (PSO SFM(Half Assist))

Updating...

Time (s)
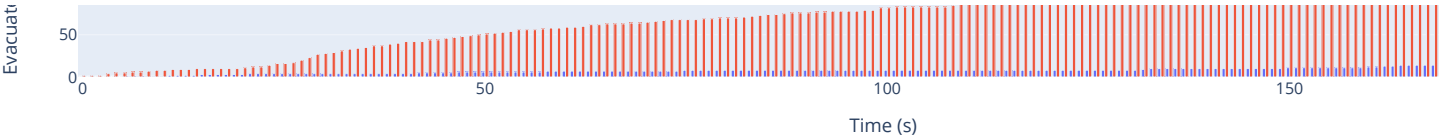
PSO SFM(Assist Mobile)

Deaths by Floor Over Time (PSO SFM(Assist Mobile))

Time (s)

Evacuated by Age Over Time (PSO SFM(Assist Mobile))
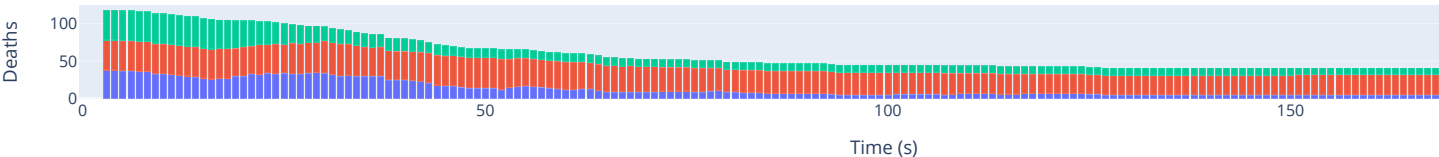

Time (s)

Staff vs Civilian Evacuation Over Time (PSO SFM(Assist Mobile))
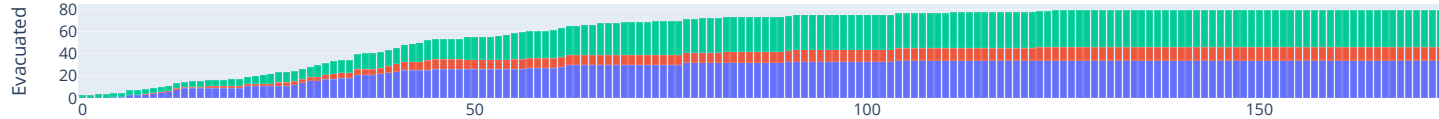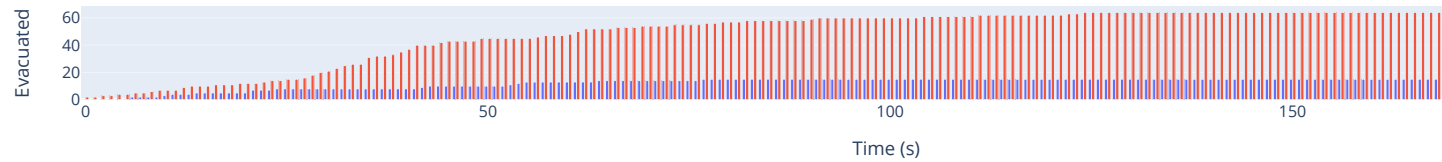

Time (s)

PSO SFM(Assist Elderly)

Deaths by Floor Over Time (PSO SFM(Assist Elderly))

Time (s)
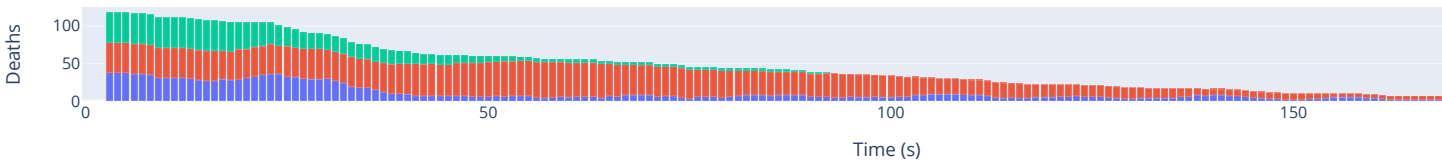
Evacuated by Age Over Time (PSO SFM(Assist Elderly))

Time (s)

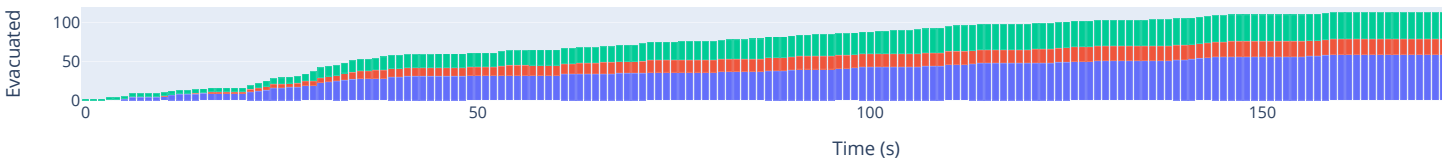### Staff vs Civilian Evacuation Over Time (PSO SFM(Assist Elderly))

Time (s)

PSO SFM(Top Evac)

Deaths by Floor Over Time (PSO SFM(Top Evac))

Time (s)

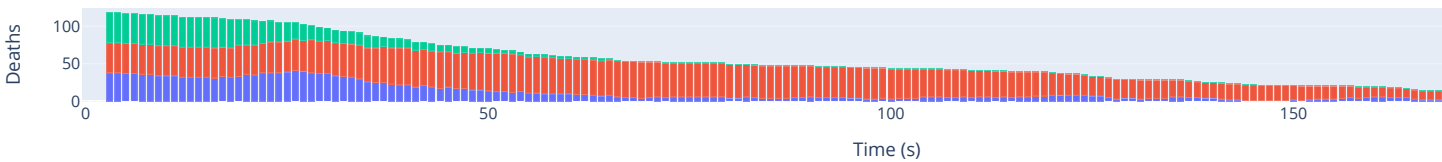### Evacuated by Age Over Time (PSO SFM(Top Evac))

Time (s)

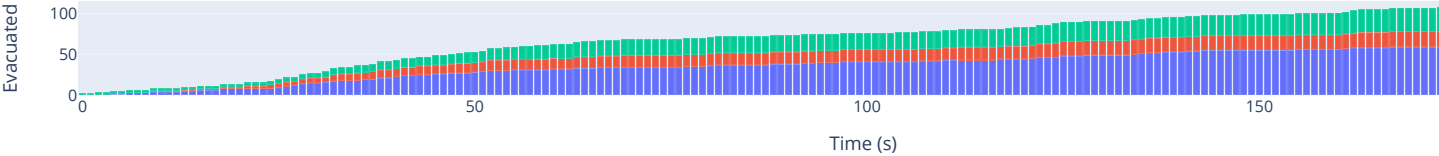### Staff vs Civilian Evacuation Over Time (PSO SFM(Top Evac))

Time (s)
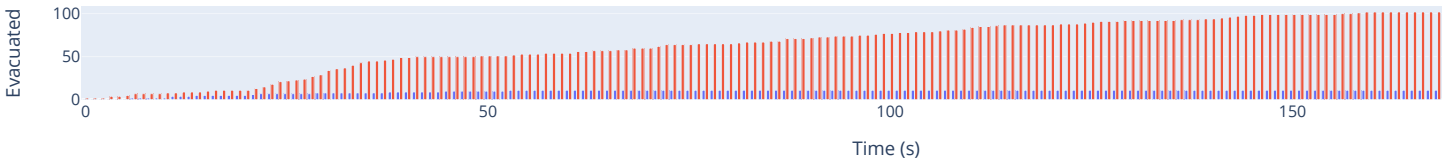
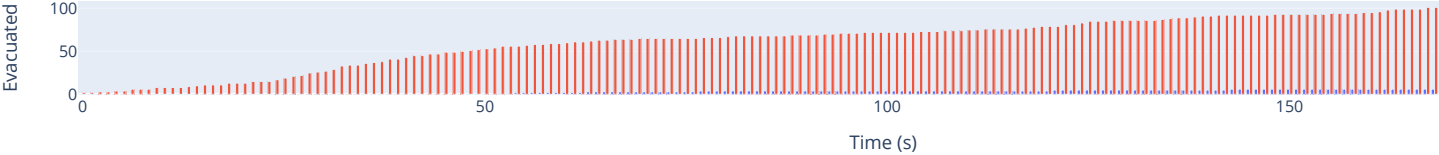## PSO SFM(Avoid Top)

Deaths by Floor Over Time (PSO SFM(Avoid Top))

Time (s)

Evacuated by Age Over Time (PSO SFM(Avoid Top))

Staff vs Civilian Evacuation Over Time (PSO SFM(Avoid Top))

PSO SFM(Zone Sweep)

Deaths by Floor Over Time (PSO SFM(Zone Sweep))
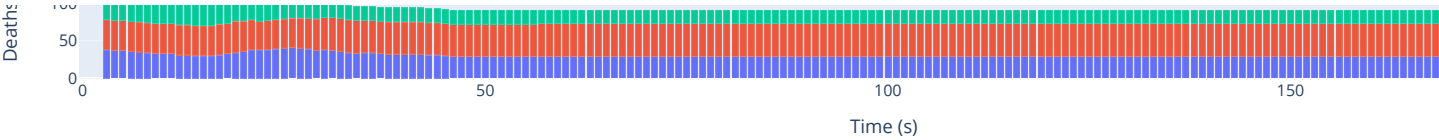

Evacuated by Age Over Time (PSO SFM(Zone Sweep))

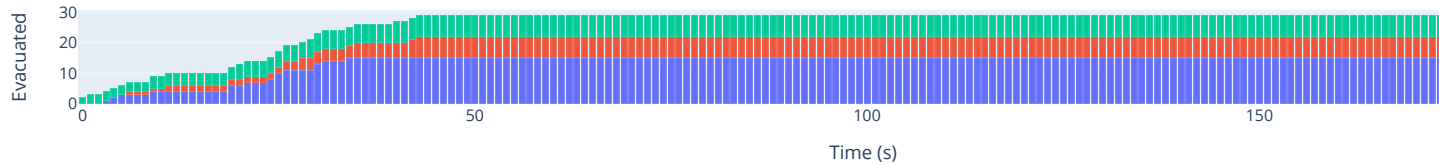### Staff vs Civilian Evacuation Over Time (PSO SFM(Zone Sweep))

MFO SFM

Deaths by Floor Over Time (MFO SFM)

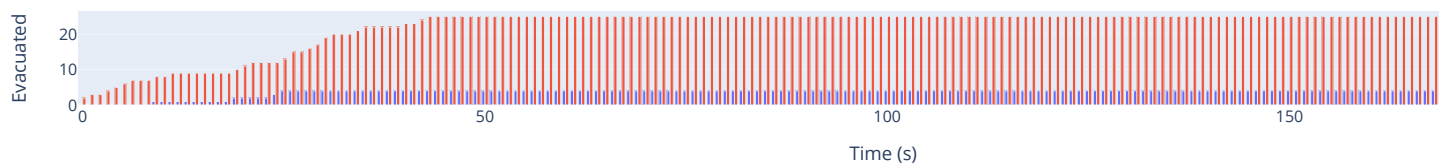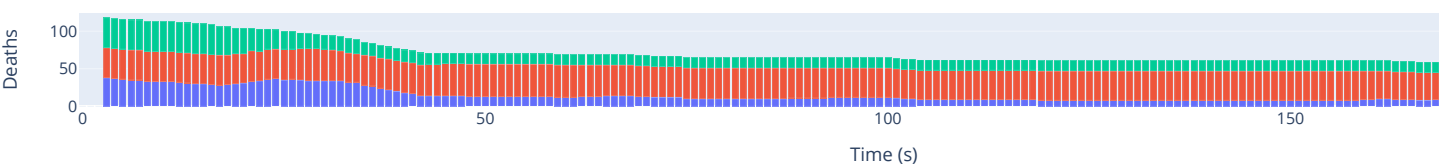### Evacuated by Age Over Time (MFO SFM)

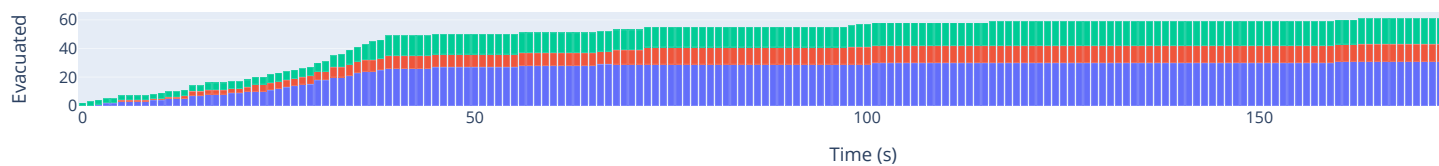### Staff vs Civilian Evacuation Over Time (MFO SFM)
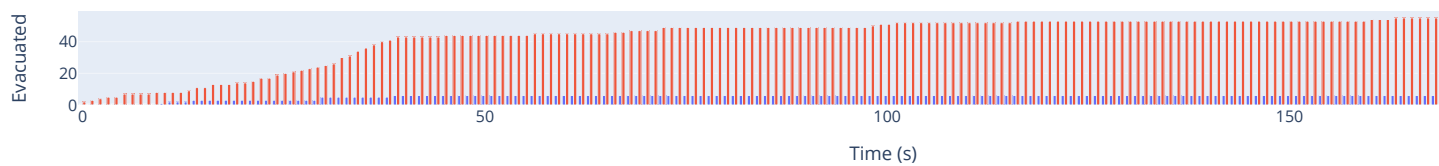

ACO SFM

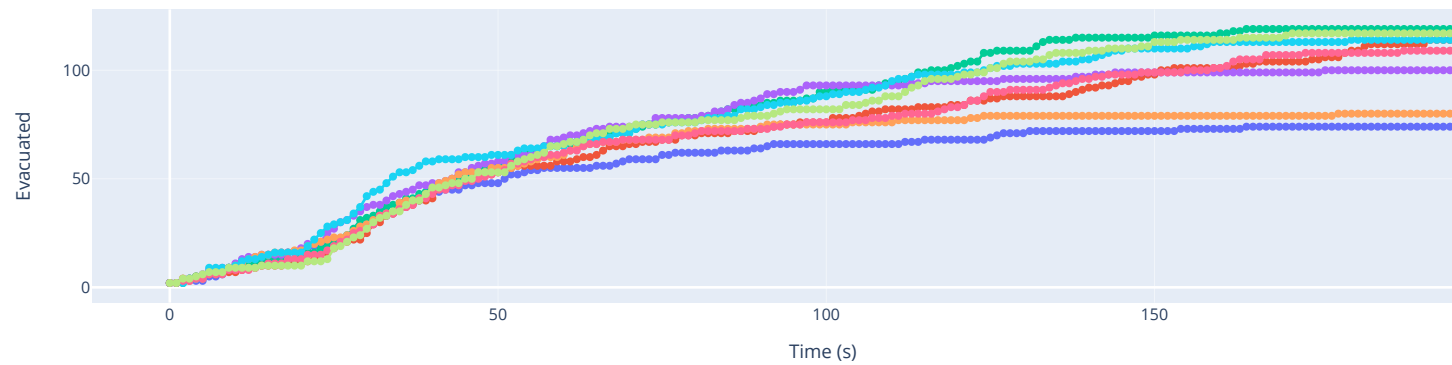### Deaths by Floor Over Time (ACO SFM)

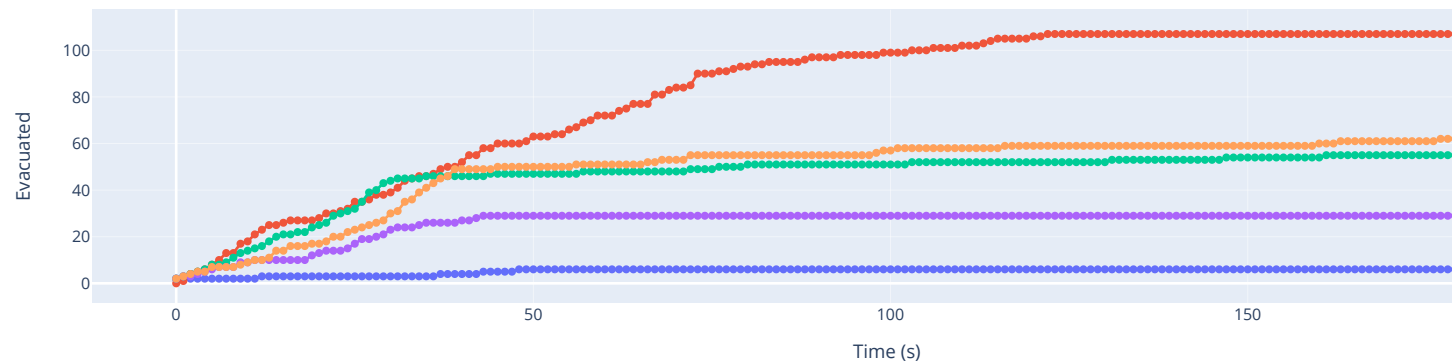### Evacuated by Age Over Time (ACO SFM)

Staff vs Civilian Evacuation Over Time (ACO SFM)

Evacuation Progress (PSO SFM Variants)

Evacuation Progress (Other Algorithms)

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