

SFPE Webinar

Crowd management and control Case Study for a stadium using Pedestrian Dynamics software

Maria Lappano

TECSA S.r.l.



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Crowd management and control Case Study for a stadium using Pedestrian Dynamics software

Luca Fiorentini – TECSA S.r.l.
 Maria Lappano – TECSA S.r.l.
 Ruggiero Lovreglio – Massey University
 Marlies Wouters – INCONTROL Simulation Solutions

11 Novembre '19

Little Caesars Arena Detroit (USA) Case study of INCONTROL Simulation Solutions

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Normal condition
Total evacuation time 14 minutes

South exit blocked
Total evacuation time 18 minutes

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Impact of diversion railings

Scenario 1

Scenario 2

Scenario 3

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Local density analysis

Scenario 1

Scenario 2

Scenario 3

Level of Service					
A	B	C	D	E	F
≤ 0.308 pp/m ²	≤ 0.431 pp/m ²	≤ 0.718 pp/m ²	≤ 1.076 pp/m ²	≤ 2.153 pp/m ²	> 2.153 pp/m ²

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Solutions

Handrails

Hold & Release strategy

Stewards at decision point

Conclusion: total evacuation time = 15 minutes

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