



SimWalk PRO. Pedestrian Simulation for Urban Planning and Evacuation.

SimWalk PRO is a powerful general-purpose pedestrian simulation package that combines the most advanced simulation technology with excellent usability to simulate and analyze emergencies, urban spaces, architecture and traffic.

The importance of pedestrian safety and comfort in urban spaces, architectural infrastructure and during evacuations is growing rapidly, unleashed by the ever increasing capacity demands and complexities of the built environment. Airports, sports stadiums, large public and commercial buildings as well as shopping centers or pedestrian crossings are typical examples for respective infrastructures.

SimWalk PRO Benefits

- Comprehensive simulation and analysis of pedestrian issues regarding safety, comfort and walkability
- Analysis of congestions, bottlenecks and high pedestrian densities in large and complex facilities
- Feasibility studies of urban spaces or building designs to improve walkability and reduce costs
- General-purpose flexibility in different domains (traffic, urban planning, evacuation)
- «State-of-the-art» validated simulation technology
- Seamless integration of CAD plans, 2D and 3D visualization of simulation results

SimWalk PRO

SimWalk PRO is a general-purpose pedestrian simulation package for evacuation, urban planning, traffic and architecture. It combines state-of-the-art simulation technology with excellent usability and features.

SimWalk PRO, a general-purpose pedestrian simulation software, offers a powerful and yet easy to use solution for analyzing and improving pedestrian flow and crowd management issues. SimWalk PRO detects safety critical congestions, high pedestrian densities, inefficient building designs and provides evacuation times in case of fire or other emergencies.

SimWalk PRO is a microsimulation software where every single pedestrian is modeled individually with specific goals and behaviors. Microsimulation allows flexible and realistic simulation of normal as well as panic behavior of pedestrians in complex environments.

SimWalk PRO is deployed worldwide by transport engineers and urban planners, by architects, security officials as well as by fire prevention and disaster experts to manage human risk and engineering costs.



To provide a comprehensive simulation solution for pedestrian flow and crowd analysis, SimWalk PRO interfaces with additional software and services. For example with software for pedestrian counting and analysis that may be applied for data acquisition in traffic, urban planning and evacuation projects.

Based on third party software and services, SimWalk PRO offers a whole product solution covering data acquisition and analysis, simulation and modeling as well as calibration and validation. A «state-of-the art» simulation technology developed in close cooperation with leading experts in the field secures realistic simulation and analysis of pedestrian flows.

Services

- > SimWalk PRO Modeling Services include comprehensive project and simulation services for clients.
- > SimWalk PRO 3D Modeling Services include 3D modeling of urban planning, traffic or evacuation scenarios.

3D Visualization

SimWalk PRO allows visualization in 2D as well as 3D for impressive rendering of simulation results. The SimWalk PRO 3D module integrates simulation data, virtual worlds, built with 3D software, as well as pedestrians to a comprehensive virtual pedestrian model. This allows to visually show and understand crowd dynamics.

Download SimWalk DEMO
www.simwalk.com/download.php

Features of Analysis

- > Passenger density maps (congestions etc.)
- > Passenger speeds and delay times
- > Transfer times
- > Passenger counts & flow rates
- > Space utilization
- > Passenger trails and route choice
- > Preconfigured Levels of Service (LOS)
- > Self-defined areas of analysis
- > Object capacities (escalators, stairs etc.)
- > (Commercial) footfall analysis
- > Queuing time and efficiency

Dynamic Event Handling

SimWalk PRO Event/Action Handler is a universal and powerful tool to influence a simulation depending on (random) occurrences like hazards, agents count, vehicle or formation states, simulation time or user actions.

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