Evacuation Analysis

Innovative Agent-Based Behavior
Pathfinder uses sophisticated agent-based artificial intelligence. Each occupant has individual traits, goals, and perceptions. This allows groups of occupants to organize themselves into natural flow patterns. As a result, occupant motion is smooth and realistic.

High-Quality 3D Visualization
Pathfinder displays the results of evacuation analyses using lifelike 3D models. Support for rendering results directly to high-quality video is built in.

Continuous 3D Movement
Rather than constrain the simulation to a grid or network description of a model, Pathfinder represents space as a continuous 3D mesh. This mesh matches the building model exactly, making the simulation as accurate as possible while at the same time simplifying model creation.

Accurate Results
The data used in Pathfinder for movement speeds and human behavior in evacuations is drawn directly from the growing body of scientific research in this area. In addition, Pathfinder results are constantly being compared to the results of several other evacuation simulators and to the SFPE handbook calculations. This approach has made it possible to confidently predict accurate evacuation times while also emphasizing realistic motion.

Coming in 2007
Visit www.thunderheadeng.com or sign up for our newsletter to stay up-to-date with our future development efforts.