



Peter Lawrence, University of Greenwich, UK
urbanEXODUS Demonstration, wildfire, pedestrian and
vehicle interaction

BIO:

Dr. Peter Lawrence is a Reader in Computational Pedestrian Dynamics and Lead Software Engineer for the EXODUS family of Software. His key research area involves the development of advanced computer algorithms for the simulation of people movement and egress from complex enclosures such as buildings, trains, ships and aircraft. He has been developing Agent Based computer models for over twenty years and has been a member of FSEG since 1994. Dr. Lawrence is currently supervising 3 MPhil/PhD candidates and has successfully supervised 15 students at PhD level in fire and evacuation related studies.

Dr Lawrence has co-published over 100 scientific papers and has worked on numerous consultative projects for commercial clients, such as the Arup, Buro Happold, Embraer, Boeing, NHS and Airbus. In addition, he has been involved in 19 successful academic research projects, which include 9 EU Framework projects. Dr. Lawrence has just completed work on an EU Horizon 2020 Project AUGGMED, which concerned the development of an augmented reality training facility for security staff. Current research projects include the Horizon 2020 project IN-PREP, looking at computer algorithms for the modelling of urban scale evacuations, and an Australian DST project looking at the development of recoverability of naval vessels evaluations system.