

PED2008 Conference Program

Wuppertal University

Talks & Invited Speakers

Wednesday, Feb. 27th 2008

08:40:00	Opening Session Wolfram Klingsch	
09:00:00	Invited Speaker The UK WTC 9/11 Evacuation Study Ed Galea University of Greenwich, UK	
09:20:00		
09:40:00	Poster-Introduction Christian Rogsch	
10:00:00		
10:20:00		
10:40:00	Break	
	Session A1 Session Chair: David Purser	Session B1 Session Chair: Hubert Klüpfel
11:00:00	FDS+Evac: An Agent Based Fire Evacuation Model Timo Korhonen, Simo Hostikka, Simo Heliövaara, and Harri Ehtamo	Real-time pedestrian tracking using an array of low-cost infrared sensors Sarah Clayton, Neil Urquhart and Jon Kerridge
11:20:00	Application Modes of Egress Simulation S.M.V.Gwynne and E.D.Kuligowski	Using laser scanner data to calibrate certain aspects of microscopic pedestrian motion models Dietmar Bauer and Kay Kitazawa
11:40:00	SIMULEM: Introducing Goal Oriented Behaviours in Crowd Simulation S. Paris, D. Lefebvre, and S. Donikian	Pedestrian vision and collision avoidance behaviour: Investigation of the Information Process Space of pedestrians using an eye tracker Kay Kitazawa and Taku Fujiyama
12:00:00	Modelling Exit Selection in Fire Evacuation with Best-Response dynamics Simo Heliövaara, Harri Ehtamo, Timo Korhonen and Simo Hostikka	Case studies on evacuation behaviour in a hotel building in BART and in real life M. Kobes, N. Oberijé and M. Duyvis
12:20:00	Discussion	Discussion
12:40:00	Lunch	
13:00:00		
13:20:00		

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13:40:00	Invited Speaker Fire Incidents in Large Infrastructures and Industrial Sites Christian Wittenzellner AZT Risc and Technology – Allianz, Munich, Germany	
14:00:00		
	Session A2 Session Chair: Dietmar Bauer	Session B2 Session Chair: Katsuhiro Nishinari
14:20:00	Automatic Extraction of Pedestrian Trajectories from Video Recordings Maik Boltes, Armin Seyfried, Bernhard Steffen and Andreas Schadschneider	Opinion Formation and Propagation Induced by Pedestrian Flow Yu Xue, Yan-fang Wei, and Huan-huan Tian
14:40:00	Analysis of empirical trajectory data of pedestrians Anders Johansson and Dirk Helbing	Front-to-back communication in a microscopic crowd model Colin Marc Henein and Tony White
15:00:00	Automated Multi-Camera Pedestrian Dynamics Acquisition and Analysis Frederik Meysel and Ralf Reulke	Applying a Discrete Event System Approach to Problems of Collective Motion in Emergency Situations P. Lino and G. Maione
15:20:00	Model-based Real-Time Estimation of Building Occupancy During Emergency Egress Robert Tomastik, Satish Narayanan, Andrzej Banaszuk, and Sean Meyn	Hierarchical Structure of the Mass and Group-level Performance in Urban Rail Transit Stations ZOU, Xiaolei, XU, Ruihua, and GAO, Peng
15:40:00	Discussion	Discussion
16:00:00	Break	
16:20:00		
	Session A3 Session Chair: Steve Gwynne	
16:40:00	The Need for Behavioral Theory in Evacuation Modeling E.D. Kuligowski and S.M.V. Gwynne	
17:00:00	NO PANIC. Security and Safety Research with emphasis on "Escape and Panic in Buildings." - Architectural basic research in the context of security and safety research. C. Illera, P.Ferschin, K.Grammer, M.Fink, H.Hinneberg, K.Kath and N.Waldau	
17:20:00	Comparisons of Evacuation Efficiency and Pre-Movement Times in Response To a Sounder and Two Different Voice Alarm Messages D.A. Purser	
17:40:00	Bounded Rationality Choice Model incorporating Attribute Threshold, Mental Effort and Risk Attitude: Illustration to Pedestrian Walking Direction Choice Decision in Shopping Streets Wei Zhu and Harry Timmermans	
18:00:00	Was it Panic? An Overview about Mass-Emergencies and their Origin all over the World for Recent Years M. Schreckenber, C. Rogsch, E. Tribble, W. Klingsch, T. Kretz	
18:20:00	Discussion	

20:15 Optional Dinner (self-payment)
of typical German food at Wuppertaler Brauhaus (brewery)
for those, who want attend

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08:20:00	Invited Speaker Injury of Lung and Heart After Inhalation of Toxic Substances Herbert Löllgen University of Bochum, Germany
08:40:00	
Session A4 Session Chair: Ed Galea	
09:00:00	Emergency Preparedness in the case of a Tsunami - Evacuation Analysis and Traffic Optimization for the Indonesian city of Padang K. Nagel, G. Lämmel, M. Rieser, H. Klüpfel, N. Goseberg, A. Matheja, T. Schlurmann, J. Birkmann, N. Setiadii, and H. Taubenböck
09:20:00	Quantitative Comparison of International Design Standards of Escape Routes in Assembly Buildings Burkhard Forell, Ralf Seidenspinner, and Dietmar Hosser
09:40:00	Discussion
10:00:00	Panel Discussion: Demographic Factors Affecting Evacuation and Other Pedestrian Performance Panel Moderator: Jake Pauls
10:20:00	
10:40:00	
11:00:00	
11:20:00 11:40:00 12:00:00 12:20:00 12:40:00 13:00:00 13:20:00 13:40:00	Social Event/Lunch/Experiment

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14:00:00	Poster Session
14:20:00	
14:40:00	
15:00:00	
15:20:00	Invited Speaker The Magic of Emotional Body Communication Beatrice de Gelder Tilburg University, The Netherlands
15:40:00	
	Session A5 Session Chair: Michael Schreckenberg
16:00:00	Investigating the Impact of Exit Availability on Egress Time Using Computer Based Evacuation Simulation E.R.Galea, M. Togher, and P.J. Lawrence
16:20:00	Assessment methodology for safety of passengers in railway tunnels Winnie Daamen, Serge Hoogendoorn
16:40:00	Experiments on evacuation dynamics for different classes of situations Jaroslaw Was
17:00:00	Enhanced empirical data for the fundamental diagram and the flow through bottlenecks A. Seyfried, M. Boltes, J. Kähler, W. Klingsch, T. Rupperecht, A. Schadschneider, B. Steffen and A. Winkens
17:20:00	Discussion

**20:00
Conference Dinner
Historical Town Hall, Wuppertal**

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Friday, Feb. 29th 2008

08:20:00	Invited Speaker Towards Smooth Movement of Crowd Katsuhiro Nishinari University of Tokyo, Japan	
08:40:00		
	Session A6 Session Chair: Andreas Schadschneider	Session B3 Session Chair: Winnie Daamen
09:00:00	Conflicts at an Exit in Pedestrian Dynamics Daichi Yanagisawa, Akiyasu Tomoeda, and Katsuhiro Nishinari	Evacuation of a high floor metro train in a tunnel situation Experimental findings H. Kirchberger, C. Lebeda, M. Oswald and N. Schjerve
09:20:00	A SCA-based model for Open Crowd aggregation Stefania Bandini, Mizar Luca Federici, Sara Manzoni, and Stefano Redaelli	Agent-Based Simulation of Evacuation: An Office Building Case Study Yiqing Lin, Igor Fedchenia, Robert LaBarre, and Robert Tomastik
09:40:00	On improvements of Floor Field CA model for pedestrian dynamics Ekaterina Kirik, Tat'yana Yurgel'yan, and Dmitriy Krouglov	Parameters of pedestrian flow for modeling purposes V. V. Kholoshevnikov and D. A. Samoshin
10:00:00	A Genetic Algorithm Module for Spatial Optimization in Pedestrian Simulation Ruedi Müller, Lukas Kellenberger, and Alex Schmid	Influence of StairWidth on Descending Pedestrian Evacuation Jason D. Averill
10:20:00	Discussion	Discussion
10:40:00	Poster Session	
11:00:00		
11:20:00		
11:40:00		

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12:00:00	Lunch
12:20:00	
12:40:00	
	Session A7 Session Chair: Armin Seyfried
13:00:00	The benefit of mentioning fire in pre-recorded vocal evacuation alarms Daniel Nilsson and Håkan Frantzich
13:20:00	Hardware implementation of a Crowd Evacuation Model based on Cellular Automata Ioakeim G. Georgoudas, Georgios Ch. Sirakoulis, and Ioannis Th. Andreadis
13:40:00	Prediction and Mitigation of Crush Conditions in Emergency Evacuations Peter Harding, Steve Gwynne, and Martyn Amos
14:00:00	Comparison of Various Methods for the Calculation of the Distance Potential Field Tobias Kretz, Cornelia Boenisch, and Peter Vortisch
14:20:00	Modeling Airport Environment and Passenger Perception M. Schultz, C. Schulz, and H. Fricke
14:40:00	Discussion
15:00:00	Closing Session Wolfram Klingsch
15:20:00	

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Poster Session

Thursday, Feb. 28th 2008

Clearance Time for Pedestrian Crossing CR Childs, T. Fujiyama and N. Tyler	Large Scale Microscopic Evacuation Simulation G. Lämmel, M. Rieser, K. Nagel
The Evacuation of Passenger Ships: Safety Regulations, Evacuation Analysis, and Future Developments - Impact of the Amendments to the Guidelines on Evacuation and Abandonment and Changes in Simulation Technology on the Industry Hubert Klüpfel	Numerical Optimisation Techniques Applied to Evacuation Analysis R. MachadoTavares and E.R. Galea
Improvement of pedestrian dynamics modelling using fuzzy logic Phillip Tomé, Bertrand Merminod, and Kamiar Aminian	A Multi-Method Approach to the Interpretation of Pedestrian Spatio-temporal Behaviour Alexandra Millonig and Georg Gartner
Modeling the link volume counts as a function of temporally dependent OD-flows Dietmar Bauer	The microscopic crowd model and the panicking ball bearing Colin Marc Henein and Tony White
Evacuation movement in photoluminescent stairwells Guyléne Proulx and Nouredine Bénichou	The Importance of Stochastics for Designing Decision Rules for Crowd Control Stefan Seer, Dietmar Bauer, and Norbert Brändle
Disaster Prevention by Optimization of Pilgrim Flows in Mina/Makkah, Saudi Arabia: A Simulation Study based on Empirical Observations Sonic H. Y. Chan, Dirk Helbing, Knut Haase, Anders Johansson, and Reik Donner	Visualizing the Human Form for Simulation and Planning Gabriel Wurzer
Handcalculation Methods for Evacuation Calculation - Last Chance for an Old-Fashioned Approach or a Real Alternative to Microscopic Simulation Tools? Christian Rogsch, Henning Weigel, and Wolfram Klingsch	Pedestrian Flow Through Exits and Similar Bottlenecks - Data Review and Simulation Burkhard Forell, Volker Schneider, and Dietmar Hossler
Subconscious effect on pedestrian behaviors in a lattice gas model with different maximum velocities Kuang Hua, Song Tao, Li Xing-Li, and Dai Shi-Qiang	A 3-tier Architecture for Pedestrian Agent in Crowd Simulation Gao Peng and Xu Ruihua
The Use of a Structure and its Influence on Evacuation Behavior S.M.V.Gwynne and D.Boswell	Empirical Study of Pedestrians' Characteristics at Bottlenecks Andreas Winkens, Tobias Rupprecht, Armin Seyfried, and Wolfram Klingsch
Adding Higher Intelligent Functions to Pedestrian Agent Model T. Kaneda, K. Kimura, T. Yoshida, and Y. He	Exit Choice Preference During Emergency Situations Aysu Sagun, Dino Bouchlaghem, and Chimay J. Anumba
FlowTech and EvaTech: two computer-simulation methods for evacuation calculation Ilya Karkin, Vladimir Grachev, Andrew Skochilov and Vladimir Zverev	Optimising Vessel Layout Using Human Factors Simulation S. Deere, E.R. Galea, and P. Lawrence

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<p>Agent-Based Animated Simulation of Mass Egress Following an Improvised Explosive Device (IED) Attack</p> <p>Douglas A. Samuelson, Matthew Parker, Austin Zimmerman, Stephen Guerin, Joshua Thorp, and Owen Densmore</p>	<p>Models for Pedestrian and Evacuation Simulation - Cross Comparison and Literature Review</p> <p>Hubert Klüpfel, Sven Hebben, Igor Kulkov, and Tim Meyer-König</p>
<p>A Novel Kinetic Model to Simulate Evacuation Dynamics</p> <p>Sergei Burlatsky, Oleg Vasilyev, Vadim Atrazhev, Nikolay Erikhman, and Satish Narayanan</p>	<p>Study on Crowd Flow Outside a Hall Via Considering Velocity Distribution of Pedestrians</p> <p>Xiang-shu Liu, Jia-xiu Pan, and Yu Xue</p>
<p>Egress route choice modelling - concepts and applications</p> <p>Volker Schneider and Rainer Könnecke</p>	<p>Analysis on the Propagation Speed of Pedestrian Reaction: the Velocity of Start-wave and Stop-wave</p> <p>Akiyasu Tomoeda, Daichi Yanagisawa, and Katsuhiro Nishinari</p>
<p>Evacuation Simulation and Human Behaviour Models in Tall Buildings</p> <p>Marja-Liisa Siikonen and Janne Sorsa</p>	<p>A Real-Time Pedestrian Animation System</p> <p>C. Schulz, M. Schultz, and H. Fricke</p>
<p>Evacuation Simulation Driven by the Architectural Clues</p> <p>Chengyu SUN and Bauke DE VRIES</p>	<p>Modelling Pedestrian Escalator Behaviour</p> <p>M.J. Kinsey, P.J. Lawrence, and E.R. Galea</p>
<p>Validation of System for User Simulation of Space Utilisation</p> <p>V. Tabak, B. de Vries, and J. Dijkstra</p>	<p>SmartMove - a Hybrid Space-Syntax and O/D Matrix Based Crowd Flow Simulation Model</p> <p>Dr. Shrikant B. Sharma</p>
<p>Numerical modelling of crowd motion in panic situation</p> <p>B. Maury, J. Venel</p>	<p>Results from a laboratory experiment involving pedestrians and a revolving door</p> <p>Serge Hoogendoorn, Winnie Daamen, Henk van Wijngaarden</p>
<p>Small-grid analysis of evacuation processes with a lattice gas model for mixed pedestrian dynamics</p> <p>Yan-fang Wei, Yu Xue, and Shi-qiang Dai</p>	<p>Introducing a coupled model for simulating crowd behaviour</p> <p>A.G. Ortega Camarena, and D. Jürgens</p>
<p>Proof of evacuation routes and safety exits - Time data as the main criteria for the evaluation of escape routes and safety exits?</p> <p>T. Hoffmann, N. Waldau, and M. Kersken-Bradley</p>	<p>Evacuation modeling of fire scenarios in passenger trains</p> <p>Jorge A. Capote, Daniel Alvear, Orlando Abreu, Mariano Lázaro, Arturo Cuesta</p>
<p>Dependence of Modelled Evacuation Times on Key Parameters and Interactions</p> <p>D.A. Purser</p>	<p>Modeling of Escape Routes According to of Occupancy, Economy and Level of Safety in Slovak Republic</p> <p>Martin Lopušniak</p>
<p>Agent-based approaches to pedestrian movement modelling - The effect of agent interaction, activity location and spatial configuration on way-finding and route choices</p> <p>Vassilis Zachariadis</p>	<p>Event-driven Simulation with Velocity-adaptation</p> <p>Mohcine Chraïbi, Armin Seyfried</p>
<p>A Simple but Useful Modification of the Social Force Model</p> <p>Bernhard Steffen</p>	<p>Modeling and Simulation of Crowd Turbulence</p> <p>Wenjian Yu and Anders Johansson</p>