

- 2017 –... Member of the editorial board of the European Magazine of the Society of Fire Protection Engineers.
- 2011 Peer-reviewer for 100+ papers in International scientific journals in the area of safety and modelling (see: publons.com/a/1182631/).

TEACHING ACTIVITIES

I have 10 years of teaching experience in the area of safety science, human behaviour in emergencies and evacuation in five different countries. I am currently course responsible for the *Human Behaviour in Fire* course and the *Fire Evacuation Design* course at the Department of Fire Safety Engineering at Lund University. I have been guest lecturer and giving seminars at several universities, e.g., the Worcester Polytechnic Institute and Brown University in the USA, Haugesund University College in Norway, Waseda University and Tokyo University of Science in Japan, the Polytechnic University of Catalunya in Spain, Eindhoven University of Technology and Delft University in The Netherlands.

AWARDS (SELECTED)

- 2018 Foundation Medal. Granted by the National Fire Protection Association (USA) as PI of the Fire Protection Research Foundation project that best exemplifies the Foundation's fire safety mission.
- 2017 Bigglestone Award. Granted by the National Fire Protection Association (USA) as first author of the most outstanding paper published in the journal *Fire Technology* (5,000\$).
- 2017 Jack Watts Outstanding Reviewer award. Granted by Springer Nature each year to the best reviewers ($\approx 1\%$ of reviewers) of the journal *Fire Technology* (250\$).
- 2013 ITA-Cosuf Award winner. Granted by the Committee on Operational Safety of Underground Facilities of the International Tunnelling Association (ITA) to the best young researcher in 2013

MEDIA APPEARANCES

I have been interviewed, quoted and writing articles in several international media, including Newsweek (US), Citylab (US), Wired (US), The Conversation (UK), Sverige Radio (Swedish National Radio), Svenska Dagbladet (Sweden), Rivista Antincendio (Italy), etc.

SCIENTIFIC PUBLICATIONS

I have authored ≈ 150 publications, including ≈ 50 peer-reviewed papers in International Journals, >50 conference contributions and 5 book chapters. I have published in many of the top scientific journals in the area of safety science, fire safety, transportation, modelling and simulation. I have received >1500 citations, with an h-index of 23 and i10-index of 40 (Google Scholar). My complete list of publications can be found in google scholar (see <https://scholar.google.it/citations?user=PAP-e4AAAAJ&hl=it>).

PEER-REVIEWED SCIENTIFIC PAPERS

- E. Ronchi**, A. Corbetta, E. Galea, M. Kinateder, E. Kuligowski, D. McGrath, A. Pel, Y. Shibana, P. Thompson, F. Toschi (2019) *New approaches to evacuation modelling for fire safety engineering applications*. *Fire Safety Journal* Doi: [10.1016/j.firesaf.2019.05.002](https://doi.org/10.1016/j.firesaf.2019.05.002)
- A. Rigos, E. Mohlin, **E. Ronchi** (2019). *The cry wolf effect in evacuation: a game-theoretic approach*. *Physica A: Statistical Mechanics and its applications* 526. Doi: [10.1016/j.physa.2019.04.126](https://doi.org/10.1016/j.physa.2019.04.126)
- S. Arias, S. La Mendola, J. Wahlqvist, O. Rios, D. Nilsson, **E. Ronchi** (2019). *Virtual Reality evacuation experiments on way-finding systems for the Future Circular Collider*. *Fire Technology*. Doi: [10.1007/s10694-019-00868-y](https://doi.org/10.1007/s10694-019-00868-y).
- N. Bode, **E. Ronchi** (2019). *Statistical model fitting and model selection in pedestrian dynamics research*. *Collective Dynamics*. Doi: [10.17815/CD.2019.20](https://doi.org/10.17815/CD.2019.20)
- K. Fridolf, **E. Ronchi**, D. Nilsson, H. Frantziach (2019). *The representation of evacuation movement in smoke-filled underground transportation systems*. *Tunnelling and Underground Space Technology* 90, pp. 28-41. Doi: [10.1016/j.tust.2019.04.016](https://doi.org/10.1016/j.tust.2019.04.016)
- S. M. V. Gwynne, **E. Ronchi**, N. Benichou, M. Kinateder, E. Kuligowski, I. Gomma, M. Adelzadeh (2019). *Modelling and Mapping Dynamic Vulnerability to Better Assess WUI Evacuation Performance*. *Fire and Materials* Doi: [10.1002/fam.2708](https://doi.org/10.1002/fam.2708).
- Adrian, J., Bode, N., Amos, M., Baratchi, M., Beermann, M., Boltes, M., ..., **E. Ronchi**, ... Wijermans, N. (2019). *A Glossary for Research on Human Crowd Dynamics*. *Collective Dynamics*, 4. <https://doi.org/10.17815/CD.2019.19>

- E. Ronchi**, D. Mayorga, R. Lovreglio, J. Wahlqvist, D. Nilsson (2019), *Virtual Reality experiments for evacuation research: Mobile-powered Head Mounted Displays vs Cave Automatic Virtual Environment experiments for evacuation research*. Computer Animation and Virtual Worlds. Doi: [10.1002/cav.1873](https://doi.org/10.1002/cav.1873)
- P. Intini, **E. Ronchi**, S. M. V. Gwynne, A. Pel (2019). *Traffic modelling for wildland-urban interface fire evacuation*. Journal of Transportation Engineering, Part A: Systems 145:3, 04019002. Doi: [10.1061/JTEPBS.0000221](https://doi.org/10.1061/JTEPBS.0000221)
- T. Sano, **E. Ronchi**, Y. Minegishi, D. Nilsson (2018). *Modelling pedestrian merging in stair evacuation in multi-purpose buildings*. Simulation Modelling Practice and Theory 85, pp. 80-94. Doi: [10.1016/j.simpat.2018.04.003](https://doi.org/10.1016/j.simpat.2018.04.003)
- E. Ronchi**, K. Fridolf, H. Frantzich, D. Nilsson, A. Lindgren Walter, H. Modig (2018). *A tunnel evacuation experiment on movement speed and exit choice in smoke*. Fire Safety Journal 97 pp. 126-136. Special Issue of the International Symposium on Tunnel Safety and Security (ISTSS). Doi: [10.1016/j.firesaf.2017.06.002](https://doi.org/10.1016/j.firesaf.2017.06.002)
- D. Nilsson, H. Frantzich, **E. Ronchi**, K. Fridolf, A. Lindgren Walter, H. Modig (2018). *Integrating evacuation research in large infrastructure tunnel projects - Experiences from the Stockholm Bypass Project*. Fire Safety Journal 97 pp. 118-125. Special Issue of the International Symposium on Tunnel Safety and Security (ISTSS). Doi: [10.1016/j.firesaf.2017.07.001](https://doi.org/10.1016/j.firesaf.2017.07.001)
- H. Najmanova, **E. Ronchi** (2017). *An Experimental Data-set on Pre-school Children Evacuation*. Fire Technology 53:4, pp.1503-1533. Doi: [10.1007/s10694-016-0643-x](https://doi.org/10.1007/s10694-016-0643-x)
- E. Gissi, **E. Ronchi**, D. A. Purser (2017), *Transparency vs Magic numbers: the Development of Stair Design Requirements in the Italian Fire Safety Code*. Fire Safety Journal 91, pp. 882-891. Doi: [10.1016/j.firesaf.2017.03.037](https://doi.org/10.1016/j.firesaf.2017.03.037)
- T. Sano, **E. Ronchi**, Y. Minegishi, D. Nilsson (2017). *A pedestrian merging flow model for stair evacuation*. Fire Safety Journal 89, pp.77-89. Doi: [10.1016/j.firesaf.2017.02.008](https://doi.org/10.1016/j.firesaf.2017.02.008)
- J. Olander, **E. Ronchi**, R. Lovreglio, D. Nilsson (2017). *Dissuasive exit signage for building fire evacuation*. Applied Ergonomics 59, pp. 84-93. Doi: [10.1016/j.apergo.2016.08.029](https://doi.org/10.1016/j.apergo.2016.08.029)
- A. Cuesta, **E. Ronchi**, S. M. V. Gwynne, M. J. Kinsey, A. Hunt, D. Alvear (2017). *School egress data: comparing the configuration and validation of five egress models*. Fire and Materials 41:5, pp. 535-554, Special Issue of the Human Behaviour in Fire Symposium 2015 Doi: [10.1002/fam.2405](https://doi.org/10.1002/fam.2405)
- M. Delin, J. Norén, **E. Ronchi**, K. Kuklane, A. Halder, K. Fridolf (2017). *Ascending stair evacuation: Walking speed as a function of height*. Fire and Materials 41:5 pp.514-534, Special Issue of the Human Behaviour in Fire Symposium 2015 Doi: [10.1002/fam.2410](https://doi.org/10.1002/fam.2410)
- E. Ronchi**, P. A. Reneke, R. D. Peacock (2016). *A conceptual fatigue-motivation model to represent pedestrian movement during stair evacuation*. Applied Mathematical Modelling 40:7-8, pp. 4380-4396. Doi: [10.1016/j.apm.2015.11.040](https://doi.org/10.1016/j.apm.2015.11.040)
- R. Lovreglio, **E. Ronchi**, G. Maragkos, T. Beji, B. Merci (2016). *A dynamic approach for the impact of a toxic gas dispersion hazard considering human behaviour and dispersion modelling*. Journal of Hazardous Materials 318, 15 pp. 758-771. Doi: [10.1016/j.jhazmat.2016.06.015](https://doi.org/10.1016/j.jhazmat.2016.06.015)
- R. Lovreglio, **E. Ronchi**, D. Nilsson (2016). *An Evacuation Decision Model based on risk perception, social influence and behavioural uncertainty*. Simulation Modelling Theory and Practice 66, 226-242. Doi: [10.1016/j.simpat.2016.03.006](https://doi.org/10.1016/j.simpat.2016.03.006)
- E. Ronchi**, E. Kuligowski, D. Nilsson, R. Peacock, P. Reneke (2016). *Assessing the Verification and Validation tests for building fire evacuation models*. Fire Technology 52, pp.197-219. Doi: [10.1007/s10694-014-0432-3](https://doi.org/10.1007/s10694-014-0432-3)
- E. Ronchi**, F. Nieto Uriz, X. Criel, P. Reilly (2016). *Modelling large-scale evacuation of music festivals*. Case Studies in Fire Safety 5, pp. 11-19. Doi: [10.1016/j.csfs.2015.12.002](https://doi.org/10.1016/j.csfs.2015.12.002)
- E. Ronchi**, D. Nilsson, H. Modig, A. Lindgren Walter (2016). *Variable Message Signs for road tunnel emergency evacuations*. Applied Ergonomics 52, pp. 253-264. Doi: [10.1016/j.apergo.2015.07.025](https://doi.org/10.1016/j.apergo.2015.07.025)
- G. Cosma, **E. Ronchi**, D. Nilsson (2016). *Way-finding lighting systems for rail tunnel evacuation: A virtual reality experiment with Oculus Rift®*. Journal of Transportation Safety and Security 8:sup1, pp. 101-117. Doi: [10.1080/19439962.2015.1046621](https://doi.org/10.1080/19439962.2015.1046621)
- R. Lovreglio, **E. Ronchi**, D. Nilsson (2015). *A model of the decision-making process during pre-evacuation*. Fire Safety Journal 78 pp. 168-179. Doi: [10.1016/j.firesaf.2015.07.001](https://doi.org/10.1016/j.firesaf.2015.07.001)
- R. Lovreglio, **E. Ronchi**, D. Nilsson. *Calibrating floor field cellular automaton models for pedestrian dynamics by using likelihood function optimization*. (2015). Physica A: Statistical Mechanics and its

applications. Doi: [10.1016/j.physa.2015.06.040](https://doi.org/10.1016/j.physa.2015.06.040)

E. Ronchi, D. Nilsson, S. Kojic, J. Eriksson, R. Lovreglio, H. Modig, A. Lindgren Walter. *A Virtual Reality experiment on flashing lights at emergency exit portals for road tunnel evacuation* (2015). *Fire Technology*. Doi: [10.1007/s10694-015-0462-5](https://doi.org/10.1007/s10694-015-0462-5)

E. Ronchi, M. Kinateder, M. Müller, M. Jost, M. Nehfischer, P. Pauli, A. Mühlberger (2015). *Evacuation travel paths in virtual reality experiments for tunnel safety analysis*. *Fire Safety Journal* 71, pp. 257-267. Doi: [10.1016/j.firesaf.2014.11.005](https://doi.org/10.1016/j.firesaf.2014.11.005)

S.M.V. Gwynne, E. D. Kuligowski, M. Spearpoint, **E. Ronchi** (2015). *Bounding defaults in egress models*. *Fire and Materials* 39:4, pp-335-352, Special Issue on the Human Behaviour in Fire Symposium 2012. Doi: [10.1002/fam.2212](https://doi.org/10.1002/fam.2212)

E. Ronchi, D. Nilsson (2014). *Modelling total evacuation strategies for high-rise buildings*. *Building Simulation* 7(1):73-87. Doi: [10.1007/s12273-013-0132-9](https://doi.org/10.1007/s12273-013-0132-9)

E. Ronchi, E. D. Kuligowski, R. D. Peacock, P. A. Reneke (2014). *A probabilistic approach for the analysis of evacuation movement data*. *Fire Safety Journal* 63, pp. 69-78. Doi: [10.1016/j.firesaf.2013.11.012](https://doi.org/10.1016/j.firesaf.2013.11.012)

E. Ronchi, P. A. Reneke, E. Kuligowski, R.D. Peacock (2014). *An analysis of evacuation travel paths on stair landings by means of conditional probabilities*. *Fire Safety Journal* 65, pp. 30-40. Doi: [10.1016/j.firesaf.2014.02.001](https://doi.org/10.1016/j.firesaf.2014.02.001)

M. Kinateder, **E. Ronchi**, D. Gromer, M. Müller, M. Jost, M. Nehfischer, P. Pauli, A. Mühlberger (2014). *Social influence on route choice in a virtual reality tunnel fire*. *Transportation Research Part F: Traffic Psychology and Behaviour* 26, pp. 116-125. Doi: [10.1016/j.trf.2014.06.003](https://doi.org/10.1016/j.trf.2014.06.003)

E. Ronchi, P. A. Reneke, R.D. Peacock (2014). *A method for the analysis of behavioural uncertainty in evacuation modelling*. *Fire Technology* 50, pp. 1545-1571. Doi: [10.1007/s10694-013-0352-7](https://doi.org/10.1007/s10694-013-0352-7)

R. Lovreglio, **E. Ronchi**, D. Borri (2014). *The validation of evacuation simulation models through the analysis of behavioural uncertainty*. *Reliability Engineering & System Safety* 131, pp. 166-174. Doi: [10.1016/j.ress.2014.07.007](https://doi.org/10.1016/j.ress.2014.07.007)

E. Ronchi, D. Nilsson (2013). *Fire evacuation in high-rise buildings: a review of human behaviour and modelling research*. *Fire Science Reviews* 2(7). Doi: [10.1186/2193-0414-2-7](https://doi.org/10.1186/2193-0414-2-7)

E. Ronchi (2013). *Testing the predictive capabilities of evacuation models for road tunnel safety analysis*. *Safety Science* 59, pp.141-153. Doi: [10.1016/j.ssci.2013.05.008](https://doi.org/10.1016/j.ssci.2013.05.008)

K. Fridolf, **E. Ronchi**, D. Nilsson, H. Frantzich (2013). *Movement speeds and exit choice in smoke-filled rail tunnels*. *Fire Safety Journal* 59, pp. 8–21. Doi: [10.1016/j.firesaf.2013.03.007](https://doi.org/10.1016/j.firesaf.2013.03.007)

E. Ronchi, P. Colonna, N. Berloco (2013). *Reviewing Italian fire safety codes for the analysis of road tunnel evacuations: advantages and limitations of using evacuation models*. *Safety Science*, Special Issue from the 1st CoSaCM. Vol 52, pp. 28-36. Doi: [10.1016/j.ssci.2012.03.015](https://doi.org/10.1016/j.ssci.2012.03.015)

E. Ronchi, S.M.V. Gwynne, D. A. Purser, P. Colonna (2013). *Representation of the impact of smoke on agent walking speeds in evacuation models*. *Fire Technology* 49 (2), pp. 411-431. Doi: [10.1007/s10694-012-0280-y](https://doi.org/10.1007/s10694-012-0280-y)

E. Ronchi, P. Colonna, J. Capote, D. Alvear, N. Berloco, A. Cuesta (2012). *The evaluation of different evacuation models for assessing road tunnel safety analysis*. *Tunnelling and Underground Space Technology* Vol. 30, pp. 74-84. Doi: [10.1016/j.tust.2012.02.008](https://doi.org/10.1016/j.tust.2012.02.008)

E. Ronchi, D. Nilsson, S.M.V. Gwynne (2012). *Modelling the impact of emergency exit signs in tunnels*. *Fire Technology* 48(4) pp. 861-988. Doi: [10.1007/s10694-012-0256-y](https://doi.org/10.1007/s10694-012-0256-y)

EDITORIALS, COMMENTS AND LETTERS

M. Kinateder, **E. Ronchi** (2019). *Burning down the silos in a multidisciplinary field: towards unified quality criteria in Human Behaviour in Fire*. *Fire Technology*. Doi: [10.1007/s10694-019-00867-z](https://doi.org/10.1007/s10694-019-00867-z)

E. Ronchi, E. Kuligowski, S. M. V. Gwynne, (2019) *Guest Editorial: Special Issue on Advances in Evacuation Modelling*. *Fire Technology* 55:2, pp. 387–389 Doi: [10.1007/s10694-018-0807-y](https://doi.org/10.1007/s10694-018-0807-y)

G. Boustras, **E. Ronchi**, G. Rein (2017). *Fires: fund research for citizen safety*. *Nature*, 551(7680), 300–300. Doi: [10.1038/d41586-017-06020-6](https://doi.org/10.1038/d41586-017-06020-6)

E. Ronchi (2016). *A fire safety engineering perspective on crowd evacuation dynamics*. *Physics of Life Reviews* 18, 48-49. Doi: [10.1016/j.plprev.2016.08.009](https://doi.org/10.1016/j.plprev.2016.08.009)

E. Ronchi (2015). *Disaster Management: Design buildings for rapid evacuation*. *Nature* 528(7582) pp. 333-333. Doi: [10.1038/528333b](https://doi.org/10.1038/528333b)

CONFERENCE CONTRIBUTIONS

Papers

- A. Johansson, S. M. V. Gwynne, **E. Ronchi**, A. Thompson, and R. Thomas (2019). *Quantifying the impact of luggage on aircraft deplaning scenarios*. To be presented at Interflam 2019.
- A. Velasco, **E. Ronchi**, A. Halder, K. Kuklane (2019). *Physical exertion during ascending evacuation while carrying load*. To be presented at Interflam 2019.
- T. Sano, **E. Ronchi**, A. Sekizawa, M. Mizuno, K. Fujii, H. Kadokura (2019). *Descending evacuation on staircases: how accurate are models in representing movement without merging?* To be presented at Interflam 2019.
- S. Arias, D. Nilsson, **E. Ronchi**, H. Frantzich, J. Wahlqvist (2019). *Enhancing behavioural realism in virtual reality fire evacuation experiments*. To be presented at Interflam 2019.
- E. Ronchi**, S. Arias, S. La Mendola, N. Johansson (2018). *An integrated approach for fire evacuation safety assessment in underground physics research facilities*. International Conference on Tunnel Safety and Security, Borås, Sweden.
- E. Ronchi**, G. Rein, S. M. V. Gwynne, P. Intini, R. Wadhvani (2017). *Framework for an integrated simulation system for Wildland-Urban Interface fire evacuation*. In Proceedings of the international conference on research and advanced technology in fire safety 2017, pp. 119-134. University of Cantabria, Santander, Spain.
- V. Alonso, **E. Ronchi** (2016). *The simulation of assisted evacuation in hospitals*. Fire and Evacuation Modelling Technical Conference FEMTC16, Malaga, Spain.
- S. Arias, **E. Ronchi**, J. Norén, M. Delin, K. Kuklane, A. Halder, K. Fridolf (2016). *An experiment on ascending evacuation on a long, stationary escalator*. Presented at the 14th International Conference and Exhibition on Fire Science and Engineering, Interflam 2016, Royal Holloway College, University of London, UK.
- H. Najmanová, **E. Ronchi** (2016). *Pre-school children evacuation modelling*. Presented at the Nordic Fire and Safety Day, 16-17th June 2016, Copenhagen, Denmark.
- D. Nilsson, H. Frantzich, **E. Ronchi**, K. Fridolf, A. Lindgren Walter, H. Modig (2016). *Integrating research in large infrastructure tunnel projects*. Proceedings of the International Symposium on Tunnel Safety and Security in 2016, ISTSS2016, Montreal, Canada.
- K. Fridolf, **E. Ronchi**, H. Frantzich, D. Nilsson, A. Lindgren Walter, H. Modig. *Full scale tunnel evacuation experiment to determine appropriate emergency exit portal designs in road tunnels*. Proceedings of the International Symposium on Tunnel Safety and Security in 2016, ISTSS2016, Montreal, Canada.
- R. Lovreglio, **E. Ronchi**, D. Nilsson (2015). *A mixed-ordered Logit approach to investigate correlations among different affordances in fire evacuation*. In: Proceedings of the 6th Human Behaviour in Fire Symposium 2015, ISBN 978-0-9933933-0-3, ed. K. Boyce, Downing College, Cambridge, UK. Interscience Communication, pp. 409-420.
- J. Troncoso, D. Nilsson, **E. Ronchi** (2015). *Response to emergency way-finding systems by people from different cultures*. In: Proceedings of the 6th Human Behaviour in Fire Symposium 2015, ISBN 978-0-9933933-0-3, ed. K. Boyce, Downing College, Cambridge, UK. Interscience Communication, pp. 361-372.
- A. Cuesta, **E. Ronchi**, S. M. V. Gwynne (2015). *Collection and Use of Data from School Egress Trials*. In: Proceedings of the 6th Human Behaviour in Fire Symposium 2015, ISBN 978-0-9933933-0-3, ed. K. Boyce, Downing College, Cambridge, UK. Interscience Communication, pp. 233-244.
- K. Fridolf, **E. Ronchi**, D. Nilsson, H. Frantzich (2015). *The relationship between obstructed and unobstructed walking speed: Results from an evacuation experiment in a smoke filled tunnel*. In: Proceedings of the 6th Human Behaviour in Fire Symposium 2015, ISBN 978-0-9933933-0-3, ed. K. Boyce, Downing College, Cambridge, UK. Interscience Communication, pp. 537-548.
- R. Machado Tavares, **E. Ronchi** (2015). *Uncertainties in evacuation modelling: Current flaws and future improvements*. In: Proceedings of the 6th Human Behaviour in Fire Symposium 2015, ISBN 978-0-9933933-0-3, ed. K. Boyce, Downing College, Cambridge, UK. Interscience Communication, pp. 185-196.
- J. Norén, M. Delin, **E. Ronchi**, S. Arias, K. Kuklane, A. Halder, K. Lundgren, K. Fridolf (2015). *Ascending Stair Evacuation – A Research Project on Effects of Fatigue, Walking Speed & Human*

Behavior. Presented at the 1st SFPE Europe conference on Fire Safety Engineering, Copenhagen (Denmark).

R. Lovreglio, D. Borri, **E. Ronchi**, A. Fonzone, L. Dell'Olio (2015). *The need of latent variables for modelling decision-making in evacuation simulations*. In: Proceedings of the IX International Workshop on Planning and evaluation, Bari (Italy).

E. Ronchi (2015) *Assessing behavioural uncertainty in evacuation modelling results*. Nordic User Workshop, April 2015, Lund (Sweden).

M. Kinateder, **E. Ronchi**, D. Nilsson, M. Kobes, M. Müller, P. Pauli, A. Mühlberger (2014). *Virtual Reality for fire evacuation research*. In: Proceedings of the 1st Complex Events and Information Modelling at the Federated Conference on Computer Science and Information Systems, At Warsaw, Poland. Doi: [10.13140/2.1.3380.9284](https://doi.org/10.13140/2.1.3380.9284)

E. Ronchi (2014). *Agent movement speed in smoke in FDS+Evac*. FDS Nordic User Workshop, April 2014, Lund (Sweden).

E. Ronchi, D. Nilsson, O. Zechlin, W. Klein, H. Mayer (2013). *Employing validation and verification tests as an integral part of evacuation model development*. In: Proceedings of the 13th International Conference and Exhibition on Fire Science and Engineering, Interflam 2013, Royal Holloway College, University of London, UK pp. 979-990.

E. Ronchi, S.M.V. Gwynne, D.A. Purser (2011). *The impact of default settings on evacuation model results: a study of visibility conditions vs occupant walking speeds*. Advanced Research Workshop Evacuation and Human Behaviour in Emergency Situations EVAC11, Santander (Spain).

E. Ronchi, M. Kinsey (2011). *Evacuation models of the future. Insights from an online survey on user's experiences and needs*. Advanced Research Workshop Evacuation and Human Behaviour in Emergency Situations EVAC11, Santander (Spain).

E. Ronchi, N. Berloco, P. Colonna, D. Alvear, J. Capote, A. Cuesta (2011). *Sviluppo di un database per la simulazione di persone disabili nei modelli computazionali di evacuazione*. (Developing a database for simulating disabled people within evacuation models), Sicurezza Sistemi Complessi, Bari (Italy).

E. Ronchi, N. Berloco, P. Colonna (2011). *The Italian fire safety codes for the analysis of road tunnel evacuations: prescriptive vs performance based design approach*. 1st International Conference in Safety and Crisis Management, Nicosia (Cyprus).

E. Ronchi, D. Alvear, N. Berloco, J. Capote, P. Colonna, A. Cuesta (2010). *Human behaviour in road tunnel fires: comparison between egress models (FDS+Evac, STEPS, Pathfinder)*. INTERFLAM10 (pp. 837-848). Nottingham (UK).

E. Ronchi, D. Alvear, N. Berloco, J. Capote, P. Colonna, A. Cuesta (2009). *Human behaviour in case of fire inside an urban tunnel through computer modelling*. Fire Protection and Life Safety in Buildings and Transportation Systems Workshop, (pp. 349-361), Santander (Spain).

E. Ronchi, D. Alvear, N. Berloco, J. Capote, P. Colonna, A. Cuesta (2009). *Evacuation Modelling and Human Behaviour using FDS+Evac in Urban Tunnel Fires*. International Conference on Evacuation and Management 2009. Scheveningen (The Netherlands).

P. Colonna, **E. Ronchi**, N. Berloco (2009). *Optimising fire protection and safety in road tunnels by readjusting risk analysis strategy*. Conference on Fire Protection & Safety in Tunnels. Paris (France).

Posters

L. Catovic, C. Alniemi, **E. Ronchi** (2018), *A survey on the factors affecting horizontal assisted evacuation in hospitals*. European Symposium of the International Association for Fire Safety Science, Nancy, France.

E. Ronchi (2017). *The use of evacuation models in fire safety engineering*. In Proceedings of the 1st International Symposium K-Force 2017, Novi Sad, Serbia.

S. Arias, D. Nilsson, **E. Ronchi**, J. Wahlqvist (2017). *Use of omnidirectional treadmill in virtual reality evacuation experiments*. Presented at the International Association of Fire Safety Science Symposium 2017, Lund, Sweden.

E. Carattin, R. Lovreglio, **E. Ronchi**, D. Nilsson (2016). *Affordance-based evaluation of signage design for areas of refuge*. Presented at the 14th International Conference and Exhibition on Fire Science and Engineering, Interflam 2016, Royal Holloway College, University of London, UK.

J. Norén, C. Eriksson Lantz, M. Delin, **E. Ronchi** (2016) *Validation study on the use of evacuation models for simulation of long ascending stair evacuation*. Presented at the 14th International Conference and Exhibition on Fire Science and Engineering, Interflam 2016, Royal Holloway College, University of London, UK.

J. Norén, M. Delin, K. Fridolf, K. Kuklane, A. Halder, K. Lundgren, **E. Ronchi**, S. Arias (2015). *Ascending stair evacuation - effects of fatigue, walking speed & human behaviour*. In: Proceedings of the 6th Human Behaviour in Fire Symposium 2015, ISBN 978-0-9933933-0-3, ed. K. Boyce, Downing College, Cambridge, UK. Interscience Communication, pp. 155-160.

E. Haliti, **E. Ronchi**, D. Nilsson (2015). *Modelling the impact of sky-bridges on total evacuation in high-rise buildings*. In: Proceedings of the 6th Human Behaviour in Fire Symposium 2015, ISBN 978-0-9933933-0-3, ed. K. Boyce, Downing College, Cambridge, UK. Interscience Communication, pp. 629-634

H. Modig, A. Pryke, A. Lindgren Walter, S. Patterson, **E. Ronchi**, D. Nilsson (2014). *Human behaviour studies to improve evacuations in road tunnels*. 6th International Symposium on Tunnel Safety and Security ISTSS2014, Marseille (France).

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