

Curriculum Vitae, Enrico Ronchi



Enrico Ronchi is a Senior Lecturer at the Division of Fire Safety Engineering (90%) and Transport and Roads (10%) at LTH. His research activities have focused on bridging safety engineering, transportation, applied mathematics and psychology to address egress. He is currently **leading** the ISO task group on the validation of evacuation models and **leading** the Emergency Management and Evacuation group of the International Association for Fire Safety Science. He has contributed to the definition of the vertical egress provisions in the 2015 Italian Fire Safety Code. He is associate editor of the journal *Safety Science*, the Magazine of the Society of Fire Protection Engineering and member of the Editorial Board of the journal *Fire Technology*. He has authored >120 publications, including 37 peer-reviewed papers in International Journals, 1 book and 3 book chapters. He has commented twice on the topic of disaster management and fire safety in the journal **Nature**. He has received >1200 citations (Google Scholar), with an h-index of 21 and i10-index of 35. He was appointed by the Swedish Police as security advisor for the 2016 visit of **Pope Francis** to Sweden.

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Education

2012 PhD Transportation Engineering; *Evacuation modelling in road tunnel fires*, Polytechnic of Bari, Italy
2008 B.Sc. in Civil Engineering and M.Sc. in Transportation Engineering, Polytechnic of Bari, Italy

Employments and Fellowships

2017 Senior Lecturer, Division of Fire Safety Engineering (90%), Transport and Roads (10%), LTH, Sweden
07/2017 HAZELab (working on wildfire evacuation research), Imperial College, London
03/2017-04/2017 School of Human Sciences, Waseda University, Japan
2015 – 2017 Associate Senior Lecturer, Division of Fire Safety Engineering, LTH, Sweden
2013 – 2014 Post-doctoral Researcher, Division of Fire Safety Engineering, LTH, Sweden.
04/2013-07/2013 Department of Psychology I, University of Würzburg, Germany.
09/2012-03/2013 Fire Research Division, US Department of Commerce, Gaithersburg, USA.

Projects (selection, reverse order)

He has been leading several research projects for a total funding of ≈1 million euros, including:

2019 – 2021 Leader of the FORMAS grant *Egressibility in an ageing society*.
2018 – 2019 Leader of the project *WUI-NITY: a platform for the simulation of wildland-urban interface fire evacuation*, funded by the US government
2016 – 2018 Leader of the project *ForensicVR: Investigating human behaviour in fire with Virtual Reality*, funded by the Crafoord Foundation, Sweden
2016 – 2017 Leader of the project *Modelling requirements for a multiphysics approach to planning of urban evacuations caused by wildfire disasters*, funded by the US government
2014 – 2015 Leader of the project *Ascending stair evacuation* funded by the Swedish fire research council and the Swedish Traffic Administration (Trafikverket).

Selection of publications

1. 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)
2. 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)
3. **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)
4. **E. Ronchi**, P. A. Reneke, R.D. Peacock (2014). *A method for the analysis of behavioural uncertainty in evacuation modelling*. *Fire Technology*. Doi: [10.1007/s10694-013-0352-7](https://doi.org/10.1007/s10694-013-0352-7)
5. **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)