

Curriculum Vitae

Name: Nils Johansson
Title: Associate Senior Lecturer
Telephone: +46 722 36 98 00
E-mail: nils.johansson@brand.lth.se
OrcID: orcid.org/0000-0001-9861-936X

Languages:

Swedish - Native language
English - Fluently
German - Good

Education:

2015, PhD in Fire Safety Engineering, Lund University. Thesis title: 'Fire Dynamics in Multi-Room Compartment Fire'
2013, Licentiate in Fire Safety Engineering, Lund University. Thesis title: 'Numerical experiments - a research method in fire science'
2006, Fire Protection Engineer Rescue Service training, The Swedish Rescue Service School in Revinge.
2006, M.Sc Risk Management and Safety Engineering, Lund University.
2006, B.Sc. Fire Protection Engineering, Lund University.

Studies abroad:

2001, 10 weeks Cambridge English course. Phoenix Language Academy, Perth, Australia
2003, One semester at Fire Engineering Program at Canterbury University, New Zealand.

Professional duties:

Division of Fire Safety Engineering, Faculty of Engineering, Lund University. 1507-
Associate Senior Lecturer

Division of Fire Safety Engineering, Faculty of Engineering, Lund University, 0911-1507
PhD Student, including 20% educational duties.

Swedish National Board of Housing, Building and Planning, 1101-1104
Fire Protection and Risk Management Engineer
Part-time employment

Grontmij AB, 0703- 0911
Fire Protection and Risk Management Engineer

Carl Bro AB, 0603-0703
Fire Protection and Risk Management Engineer
Part-time employment

Awards:

2016: SFPE Educational and Scientific Foundation Jack Bono Award – Fire Technology,
Johansson N., Svensson, S, Van Hees P., A Study of Reproducibility of a Full-Scale Multi-Room
Compartment Fire Experiment <http://link.springer.com/article/10.1007%2Fs10694-014-0408-3>

Committee assignments:

2016- present: Member of the Editorial Advisory Board, SFPE Europe (digital Magazine)
2015- present: Representative in the references group for fire protection in the Swedish Building Codes
2015- present: Associate editor, IAFSS newsletter (Fire Safety News)
2014- present: Representative in the IAFSS New Technologies Subcommittee
2012 – 2015: PhD student representative in Research Board 3 (FN3), Faculty of Engineering, Lund University.

List of Selected Publications:

- Johansson, N. and Svensson, S (2018) "Review of the Use of Fire Dynamics Theory in Fire Service Activities," *Fire Technology* DOI: 10.1007/s10694-018-0774-3.
- Johansson, N. and Ekholm, M. (2017) "Variation in Results Due to User Effects in a Simulation with FDS", *Fire Technology* DOI: 10.1007/s10694-017-0674-y
- Runefors, M., Johansson, N. and van Hees P., (2017) "The effectiveness of specific fire prevention measures for different population groups," *Fire Safety Journal*. 91, pp. 1044-1050 DOI:10.1016/j.firesaf.2017.03.064
- Livkiss, K., Andres, B., Johansson, N., van Hees, P., (2017) "Uncertainties in modelling heat transfer in fire resistance tests: A case study of stone wool sandwich panels," *Fire and Materials*, DOI: 10.1002/fam.2419
- Runefors, M., Johansson, N. and van Hees P., (2016) "How could the fire fatalities have been prevented? An analysis of 144 cases during 2011–2014 in Sweden", *Journal of Fire Sciences*, DOI: 10.1177/0734904116667962
- Johansson, N., Svensson, S. and van Hees, P. (2015) "An evaluation of two methods to predict temperatures in multi-room compartment fires," *Fire Safety Journal*. 77, pp. 46-58 DOI: 10.1016/j.firesaf.2015.07.006.
- Johansson, N., Svensson, S. and van Hees, P. (2015) "A study of reproducibility of a full-scale multi-room compartment fire," *Fire Technology*. 51(3), pp. 645-665 DOI: 10.1007/s10694-014-0408-3.
- Johansson, N., Wahlqvist, J. and van Hees, P. (2014) "Numerical Experiments in Fire Science - A Study of Ceiling Jets", *Fire and Materials*. DOI: 10.1002/fam.2253.
- Johansson, N. and van Hees, P. (2014) "A correlation for predicting smoke layer temperature in a room adjacent to a room involved in a pre-flashover fire," *Fire and Materials*, 38(2), pp. 182-193. DOI: 10.1002/fam.2172.
- Johansson, N. (2014) "Numerical experiments and compartment fires," *Fire Science Reviews*, 3(1). DOI: 10.1186/s40038-014-0002-2.
- Johansson, N. and van Hees, P. (2014) "A simplified relation between hot layer height and opening mass flow," *Fire Safety Science*. [Published online]. Available at: <http://www.iafss.org/publications/fss/11/106/view>
- Johansson, N., van Hees, P., McNamee, S. M., Andersson, P., Jansson, R. and Strömgren, M. (2014) "Technical Measures to Prevent and Mitigate the Consequences of Arson in School Buildings," *Fire Safety Science*. [Published online]. Available at: <http://www.iafss.org/publications/fss/11/94/view>
- Nilsson, M., Johansson, N. and van Hees, P. (2014) "A New Method for Quantifying Fire Growth Rates Using Statistical and Empirical Data – Applied to Determine the Effect of Arson," *Fire Safety Science*. [Published online]. Available at: <http://www.iafss.org/publications/fss/11/44/view>
- Kong, D., Johansson, N., van Hees, P., Lu, S. and Lo, S. (2013) "A Monte Carlo analysis of the effect of heat release rate uncertainty on available safe egress time," *Journal of Fire Protection Engineering* 23(1), pp. 1-25. DOI: 10.1177/1042391512452676.
- Johansson, N., Wahlqvist, J. and van Hees, P. (2012) "Detection of a Typical Arson Fire Scenario - Comparison Between Experiments and Simulations," *Journal of Fire Protection Engineering* 22(1), pp. 23-44. DOI: 10.1177/1042391511431508.
- Johansson, N., van Hees, P. and Särndqvist, S. (2012) "Combining Statistics and Case Studies to Identify and Understand Deficiencies in Fire Protection," *Fire Technology* 48(4), pp. 945-960. DOI: 10.1007/s10694-012-0255-z.