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PSAM12 Speaker Bio

Ship Grounding Damage Estimation Using Statistical Models

Short Statement: Sole author of the paper

BIOGRAPHY

I am a Master of Sciences (Econ.) from Hanken Swedish School of Economics 2011 with major in Logistics and Corporate Geography and Master of Sciences (Eng.) from Aalto University 2012 with major in Operations Research. Currently I am doing my Ph.D. at Aalto University. My topic is chemical tanker risk analysis and uncertainty with special focus on the Gulf of Finland. The focus of my research is on the most common accidents; ship collisions and groundings. The risk of these accidents is estimated by estimating the frequency and consequences of the accidents as well as the underlying uncertainty of the model along with the epistemic uncertainty.



List of prior peer-reviewed publications:

O-V. Sormunen, F. Goerlandt, J. Häkkinen, A. Posti, M. Hänninen, J. Montewka, K. Ståhlberg and P. Kujala. *Uncertainty in maritime risk analysis: Extended case-study on chemical tanker collisions*, Proc IMechE, Part M: Journal of Engineering for the Maritime Environment DOI: 10.1177/1475090213515640, (2014).

O-V. Sormunen, S. Ehlers and P. Kujala. *Collision consequence estimation model for chemical tankers*, Proc IMechE, Part M: Journal of Engineering for the Maritime Environment, 227 (2), pp. 98-106, (2013).

O-V. Sormunen, F. Goerlandt, K. Ståhlberg, J. Montewka and P. Kujala. *Estimating Spills Caused by Chemical Tanker Collisions in the Gulf of Finland Using Different Impact Models*. In: Proceedings of XIV International Scientific and Technical Conference on Maritime Traffic Engineering (MTE11). L. Gucma (ed), Maritime University of Szczecin, pp. 443-458, (2013).

A. Mazaheri, O-V. Sormunen, N. Hyttinen, J. Montewka and P. Kujala. *Comparison of the learning algorithms for evidence-based BBN modeling - A case study on ship grounding accidents*. In: Proceedings of the Annual European Safety and Reliability Conference (ESREL), Amsterdam, the Netherlands, pp. 193-20, (2013).

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