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Survey

Cyber-insurance survey[☆]

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HIGHLIGHTS

- Discussed a number of peculiarities of cyber insurance.
- Provided necessary formal background.
- Reviewed available literature on the topic.
- Analysed applicability of cyber insurance in the main technological systems.
- Listed a number of possible research directions in the topic of cyber insurance.

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ABSTRACT

Cyber insurance is a rapidly developing area which draws more and more attention of practitioners and researchers. Insurance, an alternative way to deal with residual risks, was only recently applied to the cyber world. The immature cyber insurance market faces a number of unique challenges on the way of its development.

In this paper we summarise the basic knowledge about cyber insurance available so far from both market and scientific perspectives. We provide a common background explaining basic terms and formalisation of the area. We discuss the issues which make this type of insurance unique and show how different technologies are affected by these issues. We compare the available scientific approaches to analysis of cyber insurance market and summarise their findings with a common view. Finally, we propose directions for further advances in the research on cyber insurance.

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