**Title**: An Efficient Network Security System through an Ontology Approach

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**Abstract**: Ontology analysis has been shown to be an effective first step in the construction of robust knowledge based system. Moreover, the popularity of semantic technologies and the semantic web has provided several beneficial opportunities for the modeling and computer security communities of interest. This paper describes the role of ontologies in facilitating network security modeling. It outlines the technical challenges in distributed network security simulation modeling and describes how ontology-based methods may be applied to address these challenges. The paper concludes by describing an ontology-based solution framework for network security simulation modeling and analysis and outlining the benefits of this solution approach.

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