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SECURITY PATTERNS APPLICATION BASED ON DEPENDENCES AMONG PATTERNS

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Abstract

The spread of open-software services through the Internet increases the importance of security. A security pattern is one of the techniques in which developers utilize security experts' knowledge. Security patterns contain typical solutions about security problems. However there is a possibility that developers may apply security patterns in inappropriate ways due to a lack of consideration on dependencies among patterns. Application techniques of security patterns that consider such dependencies have not been proposed yet. In this paper, we propose an automated application technique of security patterns in model driven software development by defining applications procedures ofsecurity patterns to models as model transformation rules with consideration for pattern dependencies. Our technique prevents inappropriate applications such as the application of security patterns to wrong model elements and that in wrong orders. Therefore our technique supports developers apply security patterns to their own models automatically in "A good percentage of the software deployed in industrial/commercial applications is of poor quality, it is unnecessarily complex, and contains numerous flaws that can be exploited by attackers." "We believe that the solution lies in developing secure software from the beginning, applying security principles along the whole life cycle…We see the use of patterns as a fundamental way, even for developers with little experience, to implicitly apply security principles**."**

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