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A Method for Reverse Engineering of Use Case Realisations in UML

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Abstract

We propose a novel method for recovering certain elements of the UML model of a software system. These include relationships between use cases as well as class roles in collaborations that realize each use case, identifying common functionality and thus establishing a hierarchical view of the model. The method is based on dynamic analysis of the system for the selected test cases that cover relevant use cases. The theory of formal concept analysis is applied to obtain classification of model elements, obtained by a static analysis of code, in terms of use case realizations.

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