A Systematic Mapping Study on Value of Reuse

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Abstract

Software reuse is considered as the key to a successful software development because of its potential to reduce the time to market, increase quality and reduce costs. This increase in demand made the software organizations to envision the use of software reusable assets which can also help in solving reoccurring problems for successful software. Now a day, organizations
are interested in implementing reuse program. As the “reuse” is growing in software industry, there is a growing need to assess the value of reuse by measuring it, which helps to know their success. As the concepts like reuse and reusability emerged, a question arose on how to measure them. So, in our paper, we investigate on what techniques, methods, models and metrics for assessing the value of reuse and proposed some new subcategories for the reuse metrics and models categories. Note: This work is part of our thesis which we have submitted during our masters in BTH, Sweden. One can find the whole thesis at [55].

Reference

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- B. M. Konda and Mandava K. K. A systematic mapping study on software reuse. MS thesis: Blekinge Institute of Technology.

**Index Terms**

Computer Science  
Software Engineering

**Key words**

Software  
Reuse  
Reusable  
Assets  
Value  
Metrics  
Models