Abstract

Object oriented system was the programming paradigm which aimed at the concept of software reuse. This reuse concept which has obtained its significance there upon needed to be strengthened in software systems and design concepts. This paved the basic idea behind evolving of software design paradigms into component and service oriented systems respectively. An evolution based model had been formed based on a template designed to study and record how the metrics are categorised between the three systems. This paper projects the improvement done over the model in order to relate the metrics quantitatively. The maturity level of reuse metrics stated through the evolution based model is established by bringing out the strength of the relationship that is estimated through the study.

References

- Young Lee and Kai H. Chang, "Reusability and Maintainability Metrics for Object-Oriented Software", ACM 2000
- Gui Gui and Paul D. Scott, "New Coupling and Cohesion Metrics for Evaluation of
- P. Clements, R. Kazman, and M. Klein, “Evaluating Software Architectures”; Addison-Wesley, Boston, 2002
- Si Won Choi, Jin Sun Her, and Soo Dong Kim, “Modeling QoS Attributes and Metrics for Evaluating Services in SOA Considering Consumers&apos; Perspective as the First
Strength Estimation of Relation between Metrics in Evolution based Model

- George Feuerlicht, "Simple Metric for Assessing Quality of Service Design", ICSOC workshops, LNCS 6568, pp. 133-143, 2011

Index Terms

Computer Science Software Engineering

Keywords

Software Reusability Metrics Oo Component And Service Reusability Metrics Evolution Model Strength Of Relations