Investigation of requirements reuse (RR) challenges and existing RR approaches

Yau, B.L., Nadir, A., Saleh, N., R.

Computer Science Department, International Islamic University Malaysia, Malaysia

Abstract

Recent trend of software artifacts could bring substantial benefits to software developers and also other relevant stakeholders. It is observed in the literature that when reuse is introduced at the initial stage of SE process or as a part of the requirements phase, reuse brings more benefits than at any other abstraction level or at the benefits of reusing positively affects the subsequent levels. The aim of this paper is to investigate challenges and approaches of requirements reuse (RR) in the literature and make our contribution to researchers and practitioners in the field of SE. In this paper, we present challenges of RR in the literature and categorize RR approaches into (a) domain-specific (b) patterns-based (c) ontology-based (d) general approaches and distinguish these approaches according to two design facets design for reuse and design with reuse. Furthermore, we present and analyse contributions of the four categories of RR approaches and highlight the gap and our future work. © 2017 American Scientific Publishers. All rights reserved.

Author keywords

Design facets, reuse, Software artifacts, Requirements reuse

ISSN: 19480112
Source Type: Journal
Original language: English

DOI: 10.11606/issn.2017.8232
Document Type: Journal
Publisher: American Scientific Publishers

Matrix

Citations in Scopus

Field-Weighted Citation Impact

Cited by 0 documents

Inform me when this document is cited in Scopus:

Sat citation alert Sat citation feed

Related documents

Find more related documents in Scopus based on:

Authors 3 Keywords 5