Abstract

A novel process to discover test case patterns is proposed. This has led to the construction of a test case patterns catalogue. The catalogue has been analysed to estimate the potential reusability in different software applications. This has shown that 43% of system functions are generally application domain independent, whereas 57% are application domain dependent. Statistical tests showed that the level of specialisation in software systems could be as low as 20%, which supports the direction taken in this research to reuse test case patterns in software engineering activities, in particular, software cost estimation at the early sages of software development.

Keywords

Test Case Patterns Catalogue, Reusability.