USING TEST CASE PATTERNS TO ESTIMATE SOFTWARE DEVELOPMENT AND QUALITY MANAGEMENT COST

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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.