Abstract

The recent development of the technologies in the day-today life has made the people committed with more and more software's. The software engineering is centered on a key attribute the Software Reliability, which is defined as the probability of failure free executions. In this competing world of technologies, applications with newer and better solutions only survive. Developing this modern software with right approach still remains as one of the main software crisis. Thus it makes it crucial to follow the right approaches with a good knowledge of the software engineering problems, their approaches and expected results. In this paper the software engineering and their various Approaches are discussed. The
categorization of software engineering problems and their possible results are made for
addressing the issue raised due to the wideness of software engineering. A view on various
validation methods exist in software engineering are discussed for making the software more
reliable. The paper explores promising research areas in software engineering for exclusive
upcoming researchers.

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**Index Terms**

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