

Software Development Life Cycles: History and Future

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Abstract

This paper discusses the importance of the use of process models in the software development lifecycle, provides a review of the process models used so far, compares and contrasts five different process models and then attempts to discuss the future of process models.

1 Introduction

The Software Crisis was a time period in the infancy of software development where it was found to be difficult to write software that was useful and efficient on the hardware of the time. This led to a large quantity of poor quality software being created that did not meet the requirements or was not even delivered at all.

Naur and Randell (1969) state that there were problems of "achieving sufficient reliability" and difficulties of meeting time requirements and specifications on large scale projects amongst other problems that were discussed at the *NATO Software Engineering Conference, 1968*.

As a result of this conference where major problems with the state of software development were brought up, software development process models started to become far more popular as they were seen as a major part of the solution to the *Software Crisis*.

References

Naur, P. & Randell, B. (1969), Software Engineering - Report a conference sponsored by the NATO Science Committee.