



On the Evolution of Source Code and Software Defects (Paperback)

By Marco D ambros

Createspace, United States, 2012. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Software systems are subject to continuous changes to adapt to new and changing requirements. This phenomenon, known as software evolution, leads in the long term to software aging: The size and the complexity of systems increase, while their quality decreases. In this context, it is no wonder that software maintenance claims the most part of a software system s cost. The analysis of software evolution helps practitioners deal with the negative effects of software aging. With the advent of the Internet and the consequent widespread adoption of distributed development tools, such as software configuration management and issue tracking systems, a vast amount of valuable information concerning software evolution has become available. In the last two decades, researchers have focused on mining and analyzing this data, residing in various software repositories, to understand software evolution and support maintenance activities. However, most approaches target a specific maintenance task, and consider only one of the several facets of software evolution. Such approaches, and the infrastructures that implement them, cannot be extended to address different maintenance problems. In this dissertation, we propose an integrated view of...

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