Advance Version Control (AVC): A Paradigm Shift from Version Control to Conflict Management

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Abstract

Distance is the major barrier in Global software development. It negatively impacts communication and coordination. Many tools are used to help developers to coordinate their work. One such tool is Software Configuration Management (SCM). But studies have shown that SCM lacks in conflict detection. This weakness has been removed by workspace awareness tool.

This paper describes Advance Version Control tool (AVC), a tool that does versioning of artifacts and actively monitor commit activities of the developer. It is an integration of Configuration Management and Conflict Management. AVC determines conflicts at right time and also provides resolution methods like code sharing. The developed tool allows the developers to focus on their main task i.e. programming without presenting trivial notifications and warnings. AVC also has integrated communication medium to further enhance the coordination.
References


Index Terms

Computer Science
Software Engineering

Keywords

Version control tools, conflict detection, workspace awareness.