



Einsatz Von Came-Tools Zur Qualitätssicherung in Grossen Software-Projekten

By Haiko Steitzer

Diplom.de. Paperback. Book Condition: New. Paperback. 76 pages. Dimensions: 10.4in. x 7.4in. x 0.2in. Diplomarbeit, die am 13. 11. 1997 erfolgreich an einer Fachhochschule in Deutschland im Fachbereich Elektrotechnik eingereicht wurde. Einleitung: Thema dieser Diplomarbeit ist die Untersuchung der Softwarequalität eines Projektes aus dem Bereich Telecommunication Management Network (TMN). Die Gre des Projektes betrug zum Zeitpunkt der Untersuchung ca. 500000 LOC. Untersucht wurden Zusammenhänge zwischen Software-Metriken und den im Projekt aufgetretenen Fehlern. Die Bestimmung der Metriken erfolgte mit Hilfe des Tools QA C der Firma QA Systems. Weitere Bestandteile der Arbeit sind Ausführungen über Software-Qualität, Qualitätssicherung, Software-Metriken und CAME (Computer Assisted Software Measurement and Evaluation) -Tools. Inhaltsverzeichnis: AbkürzungsverzeichnisII AbbildungsverzeichnisIII 1. Softwarequalität1 1. 1Qualität des Produktes1 2Qualität des Prozesses8 1. 2. 1Prozessmodelle8 1. 2. 2Bewertung des Entwicklungsprozesses11 2. Software-Metriken15 2. 1Die Entwicklung der Software-Metriken15 2. 2Software-Metriken; Zielstellungen und Probleme16 2. 3Grundlegende Software-Metriken19 2. 3. 1Software Science Measures (M. Halstead)19 2. 3. 2Complexity Measures (McCabe)20 2. 3. 3Information Flow Complexity22 2. 3. 4Weitere Metriken23 2. 3. 4. 1Design-Metriken23 2. 3. 4. 2Objektorientierte Metriken25 3. Tools zur Durchführung der statischen Code-Analyse27 3. 1bersicht27 3. 2QA C28 4. Bewertung der Software eines TMN-Projektes31 4.

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