

Derivation and Validation of Software Metrics

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Derivation And Validation Of Software Metrics

Peter L. Knepell, Deborah C. Arangno



Derivation And Validation Of Software Metrics:

Derivation and Validation of Software Metrics Martin Shepperd, Darrel Ince, 1993 This is the first book of its kind on software metrics the measurement of software products and processes used for establishing quality assurance thresholds and in predicting quality levels This authoritative review of the subject discusses a number of weaknesses which have been discovered over the last ten years and describes a method for the derivation and validation of metrics This is the first work to describe a methodical derivation process for software metrics and is a major improvement over the current ad hoc ways of developing metrics making this an important and much needed contribution to software engineering

Proceedings of the ... ACM SIGSOFT Symposium on the Foundations of Software Engineering, 1997 **Foundations of Software Measurement** Martin Shepperd, 1995 Integrating modern metrics research with practical applications this text helps the reader understand develop and apply metrics to software engineering projects It provides case studies and discusses software architecture management and measurement building rigorous models experimentation tools and more

Proceedings, 1978 *Proceedings, Fifth International Software Metrics Symposium, Metrics 1998*, 1998 Partial Contents Architectural Metrics Program Understanding Program Analysis Software Process Improvement Error Models Object Oriented Measures Program Management Measures Formal Models Testing Measures *11th International Symposium on Software Reliability Engineering*, 2000 Papers from an October 2000 symposium report on recent advances in OO methods modeling testing quantitative methods testability risk assessment measures safety and theory Specific topics include module size distribution and defect density structural testing of Web applications building trust into OO components using a genetic analogy testing polymorphic relationships analyzing testability on data flow designs testing nondeterminate systems modeling fault prone modules of subsystems formal semantics for computational engineering foundations for UML model verification tools and formal limits on determining reliabilities of component based software systems No subject index

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Hähnle,1993 This is the first book on theorem proving in multiple valued logics a subject which is not covered in other books on theorem proving or those on multiple valued logics Both semantic tableaux and other methods are described OVL have wide ranging applications including hardware and software verification Efficient theorem proving methods in MVL are therefore essential yet existing approaches are inadequate The author introduces the new concept called sets as signs which for the first time amounts to a unified and efficient method for automated reasoning in multiple valued logics **Simulation Validation** Peter L. Knepell,Deborah C. Arangno,1993-06-13 Helps you ensure that your simulations are appropriate representations of real world systems The book concentrates on the differentiation between the assessment of a simulation tool and the verification and validation of general software products It is a systematic procedural practical guide that you can use to enhance the credibility of your simulation models In addition it is a valuable reference book and a road map for software developers and quality assurance experts or as a text for simulation methodology and software engineering courses This book details useful assessment procedures and phases discusses ways to tailor the methodology for specific situations and objectives and provides numerous assessment aids The reader can use these aids to support ongoing assessments over the entire life cycle of the model **The Cumulative Book Index** ,1995 A world list of books in the English language

NASA SP. ,1978 *Implementing the Stakeholder Based Goal-Question-Metric (Gqm) Measurement Model for Software Projects* Dr. Prashanth Harish Southekal,2014-06-25 Software projects today are often characterized by poor quality schedule overruns and high costs One of the approaches to address the poor success rate is to track the project progress with a stakeholder driven measurement model that is objective and validated theoretically and empirically In this backdrop based on the Goal Question Metric GQM model this book proposes a generic and objective measurement model for a software project with eight key measures based on the value propositions of the stakeholders The measurement model is validated i theoretically with measurement theory criteria and ii empirically with case studies and a global survey representing IT industry practitioners

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based measures of coupling and cohesion of a module and usage measurement for statistical web testing and reliability analysis Other topics include evaluating software degradation through entropy a feedback approach to validation of a GQM study the impact of design properties on development cost in object oriented systems and using simulation to evaluate prediction techniques No subject index c Book News Inc **Management, a Continuing Bibliography with Indexes**,1979 *Software Engineering Metrics: Measures and validations* Martin Shepperd,1993 A compendium of articles by the world s leading authorities on software metrics Topics range from design specification and validation to more advanced topics such as automated measurement systems *Software Metrics* Volney Rodriguez,1987 *Practical Implementation of Software Metrics* Paul Goodman,1993 All Software and Quality Managers should be given a week s paid leave and Paul s book to read Jacqueline Holdsworth Consultant This book is the most readable and accessible of all the books available on metrics The reader learns first hand all the ups and downs ins and outs of implementing a software metrics program in the real world The author provides essential reading for anyone who wants to know how to quantify the quality of their software and override problems that occur when working in a professional environment

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