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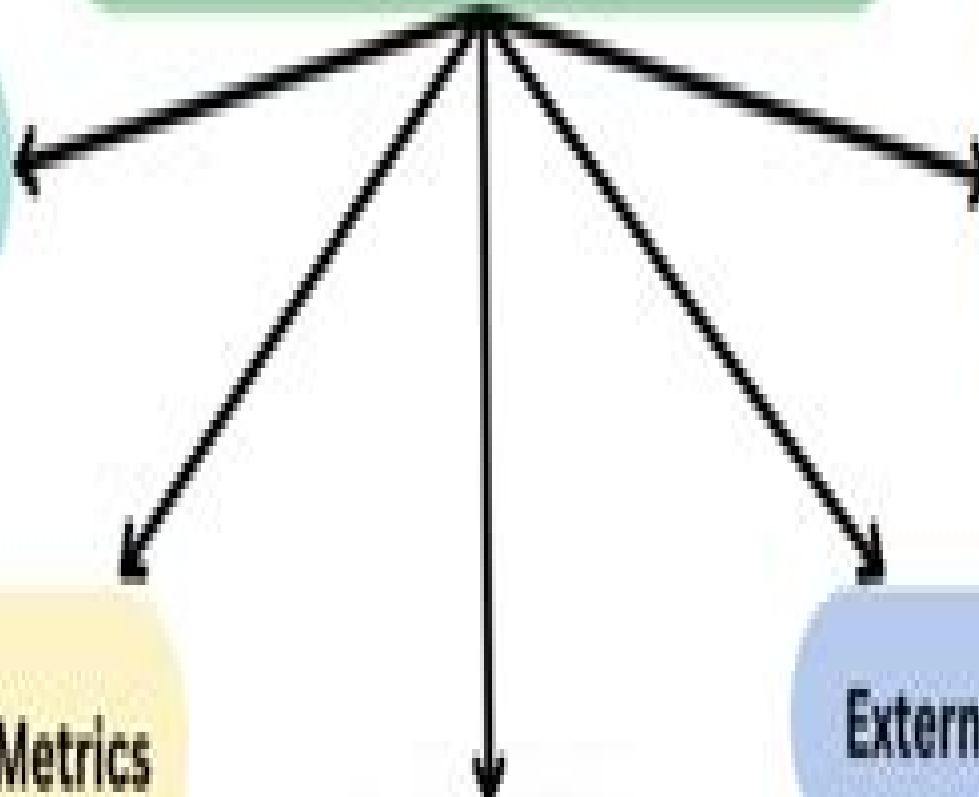
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# Software Engineering Measurement

**Reiner Dumke, Alain Abran**

## **Software Engineering Measurement:**

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Software Development Measurement Programs Miroslaw Staron,Wilhelm Meding,2018-07-13 This book seeks to promote the structured standardized and accurate use of software measurement at all levels of modern software development companies To do so it focuses on seven main aspects sound scientific foundations cost efficiency standardization value maximization flexibility combining organizational and technical aspects and seamless technology integration Further it supports companies in their journey from manual reporting to automated decision support by combining academic research and industrial practice When scientists and engineers measure something they tend to focus on two different things Scientists focus on the ability of the measurement to quantify whatever is being measured engineers however focus on finding the right qualities of measurement given the designed system e g correctness the system's quality of use e g ease of use and the efficiency of the measurement process In this book the authors argue that both focuses are necessary and that the two are complementary Thus the book is organized as a gradual progression from theories of measurement yes you need theories to be successful to practical organizational aspects of maintaining measurement systems yes you need the practical side to understand how to be successful The authors of this book come from academia and industry where they worked together for the past twelve years They have worked with both small and large software development organizations as researchers and as measurement engineers measurement program leaders and even teachers They wrote this book to help readers define implement deploy and maintain company wide measurement programs which consist of a set of measures indicators and roles that are built around the concept of measurement systems Based on their experiences introducing over 40 000 measurement systems at over a dozen companies they share essential tips and tricks on how to do it right and how to avoid common pitfalls Software Measurement A. Melton,1995-02-01 This book brings together work of some of the highest authorities in the field of software measurement and software metrics It has three main aims To provide a history of

software metrics to provide a formal foundation for software measurement and software metrics and to increase the applications of software metrics and to study the development of metrics for non imperative languages for example object oriented and logic based languages and for non code documents such as specification documents Intended for academic and professional researchers as well as students of software engineering Software Measurement offers a framework within which current and future work in software measurement can be effectively and reliably understood and completed Readers will gain a more comprehensive understanding of software and the discipline behind it i e software engineering and thus be better able to create and maintain more complex and efficient software Software Engineering Metrics and Models Samuel Daniel Conte,H. E. Dunsmore,V. Y. Shen,1986 The role of metrics and models in software development Software metrics Measurement and analysis Small scale experiments micro models of effort and programming techniques Macro models of productivity Macro models for effort estimation Defect models The future of software engineering metrics and models References Appendices Index Metrics and Models in Software Quality Engineering Stephen H. Kan,2003 This is the single best book on software quality engineering and metrics that I ve encountered Capers Jones from the ForewordMetrics and Models in Software Quality Engineering Second Edition is the definitive book on this essential topic of software development Comprehensive in scope with extensive industry examples it shows how to measure software quality and use measurements to improve the software development process Four major categories of quality metrics and models are addressed quality management software reliability and projection complexity and customer view In addition the book discusses the fundamentals of measurement theory specific quality metrics and tools and methods for applying metrics to the software development process New chapters bring coverage of critical topics including In process metrics for software testingMetrics for object oriented software developmentAvailability metricsMethods for conducting in process quality assessments and software project assessmentsDos and Don ts of Software Process Improvement by Patrick O TooleUsing Function Point Metrics to Measure Software Process Improvement by Capers Jones In addition to the excellent balance of theory techniques and examples this book is highly instructive and practical covering one of the most important topics in software development quality engineering 0201729156B08282002 **Software Measurement** Reiner Dumke,Alain Abran,2013-11-11 Software developers are faced with the challenge of making software systems and products of ever greater quality and safety while at the same time being faced with the growing pressure of costs reduction in order to gain and maintain competitive advantages As in any scientific and engineering discipline reliable measurement is essential for talking on such a challenge Software measurement is an excellent abstraction mechanism for learning what works and what doesn t Victor Basili Measurement of both software process and products provides a large amount of basic information for the evaluation of the software development processes or the software products themselves Examples of recent successes in software measurement span multiple areas such as evaluation of new development methods and paradigms quality and

management improvement programs tool supporting initiatives and company wide measurement programs The German Computer Science Interest GI Group of Software Metrics and the Canadian Interest Group in Software Metrics CIM have attended to these concerns in the recent years Research initiatives were directed initially to the definition of software metrics and then to validation of the software metrics themselves This was followed by more and more investigation into practical applications of software metrics and by critical analysis of the benefits and weaknesses of software measurement programs Key findings in this area of software engineering have been published in some important books such as Dumke and Zuse s Theory and Practice of Software Measurement Ebert and Dumke s Software Metrics in Practice and Lehner Dumke and Abran s Software Metrics Measuring the Software Process William A. Florac, Anita D. Carleton, 1999-07-15 While it is usually helpful to launch improvement programs many such programs soon get bogged down in detail They either address the wrong problems or they keep beating on the same solutions wondering why things don t improve This is when you need an objective way to look at the problems This is the time to get some data Watts S Humphrey from the Foreword This book drawing on work done at the Software Engineering Institute and other organizations shows how to use measurements to manage and improve software processes The authors explain specifically how quality characteristics of software products and processes can be quantified plotted and analyzed so the performance of software development activities can be predicted controlled and guided to achieve both business and technical goals The measurement methods presented based on the principles of statistical quality control are illuminated by application examples taken from industry Although many of the methods discussed are applicable to individual projects the book s primary focus is on the steps software development organizations can take toward broad reaching long term success The book particularly addresses the needs of software managers and practitioners who have already set up some kind of basic measurement process and are ready to take the next step by collecting and analyzing software data as a basis for making process decisions and predicting process performance Highlights of the book include Insight into developing a clear framework for measuring process behavior Discussions of process performance stability compliance capability and improvement Explanations of what you want to measure and why and instructions on how to collect your data Step by step guidance on how to get started using statistical process control If you have responsibilities for product quality or process performance and you are ready to use measurements to manage control and predict your software processes this book will be an invaluable resource **A Framework of Software Measurement** Horst Zuse, 1998 No detailed description available for **A Framework of Software Measurement** **Software Metrics** B. A. Kitchenham, 1996 The author explains what is meant by software measurement and how to decide what to measure how to use measurement to support different aspects of a process improvement programme how to set quantitative goals using a pragmatic approach to the Goal Question Metric paradigm how to set up a metrification programme and design a data collection system and how to analyse the software data collected **Systems and Software Engineering**.

**Measurement Process** British Standards Institute Staff,2007-10-31 Software engineering techniques Computer software Selection Measurement Data processing Information exchange    **Applying Software Metrics** Paul Oman,Shari Lawrence Pfleeger,1996-11-13 Features a useful collection of important and practical papers on applying software metrics and measurement The book details the importance of planning a successful measurement program with a complete discussion of why what where when and how to measure and who should be involved Each chapter addresses these significant questions and provides the essential answers in building an effective measurement program The book differs from others on the market by focusing on the application of the metrics rather than the metrics themselves The author s provide information based on actual experience with successful metrics programs Each chapter includes a case study focusing on technology transfer and a set of recommended references The book serves as a guide on the use and application of software metrics in industrial environments It is specially designed for managers product supervisors and quality assurance personnel who want to know how to implement a metrics program    **Measuring the Software Process** David Garmus,David Herron,1996 Function point counting is one of the fastest growing software management techniques used in the software industry today This book shows how to successfully execute the function point counting methodology based on the current rules and guidelines set forth by the International Function Point Users Group IFPUG Covers software measurement and the application of the function point methodology the specific rules and guidelines of the function point methodology and function point uses and benefits For programmers and software development managers    **Software Metrics and Software Metrology** Alain Abran,2010-11-19 Most of the software measures currently proposed to the industry bring few real benefits to either software managers or developers This book looks at the classical metrology concepts from science and engineering using them as criteria to propose an approach to analyze the design of current software measures and then design new software measures illustrated with the design of a software measure that has been adopted as an ISO measurement standard The book includes several case studies analyzing strengths and weaknesses of some of the software measures most often quoted It is meant for software quality specialists and process improvement analysts and managers    **Software Metrics** Lem O. Ejiogu,2005 BOOK MARKETING PHRASEOLOGY Measurement Is Imperative For The Design and Certification Of Every Engineering The book Software Metrics The Discipline Of Software Quality defines Software Measurement completely away from traditional LINES OF CODE LOC techniques It does this by incorporating the tenets of a measure function of mathematics into that of Structured programming to design a Tree Structure edifying the methodology as Tree Methodology TM with the tenets 1 The tenets of Software Engineering 2 the tenets of Structured Programming Tree Like Designs 3 The postulates of a Measure Function Of the Theory of Mathematics In this paradigm the book offers some 45 mathematical models of software metrics for the first time in history formally classified under Software Complexity and Software Quality For instance WELL STRUCTURED is a measure to be desired of every software module Measurement Is the Maturation of a

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