Software measurement and metrics



- Software measurement is concerned with deriving a numeric value for an attribute of a software product or process.
- This allows for
 - objective comparisons between techniques and processes
 - predictions
 - management control
- Most organisations don't make systematic use of software measurement.

Software Engineering Measurement

Alain Abran

Software Engineering Measurement:

Software Engineering Measurement Ph.D., John C. Munson, 2003-03-12 The product of many years of practical experience and research in the software measurement business this technical reference helps you select what metrics to collect how to convert measurement data to management information and provides the statistics necessary to perform these conversions The author explains how to manage software development **Software Engineering Measurement Ph.D.** Munson, 2003-03-12 The product of many years of practical experience and research in the software measurement business this technical reference helps you select what metrics to collect how to convert measurement data to management information and provides the statistics necessary to perform these conversions. The author explains how to manage software Software Metrics Norman E. Fenton, Shari Lawrence Pfleeger, 1997 Software Metrics 2 e is ideal for undergraduate and graduates studying a course in software metrics or software quality assurance It also provides an excellent resource for practitioners in industry Best Practices in Software Measurement Christof Ebert, 2005 Practical approach to software measurement Contains hands on industry experiences **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 Software Engineering Measurement Ph D Munson, Taylor & Francis Group, 2019-08-30 The product of many years of practical experience and research in the software measurement business this technical reference helps you select what metrics to collect how to convert measurement data to management information and provides the statistics necessary to perform these conversions. The author explains how to manage software development measurement systems how to build software measurement tools and standards and how to construct controlled experiments using standardized measurement tools There are three fundamental questions that this book seeks to answer First exactly how do you get the measurement data Second how do you convert the data from the measurement process to information that you can use to manage the software development process Third how do you manage all of the data Millions of dollars are being spent trying to secure software systems. When suitable instrumentation is placed into the systems that we develop their activity can be monitored in real time Measurement based automatic detection mechanisms can be designed

into systems This will permit the detection of system misuse and detect incipient reliability problems By demonstrating how to develop simple experiments for the empirical validation of theoretical research and showing how to convert measurement data into meaningful and valuable information this text fosters more precise use of software measurement in the computer science and software engineering literature Software Engineering Measurement shows you how to convert your measurement data to valuable information that can be used immediately for software process improvement 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 **Measuring the Software Process** William A. Florac, Anita D. Carleton, 1999 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 **Software** Measurement and Estimation Linda M. Laird, M. Carol Brennan, 2006-06-12 An effective quantitative approach for estimating and managing software projects How many people do I need When will the quality be good enough for commercial sale Can this really be done in two weeks Rather than relying on instinct the authors of Software Measurement and Estimation offer a new tested approach that includes the quantitative tools data and knowledge needed to make sound

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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

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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

Systems and Software Engineering. Measurement Process British Standards Institute

Staff,2007-10-31 Software engineering techniques Computer software Selection Measurement Data processing Information exchange

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 metrication

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