

# 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

**William A. Florac, Anita D. Carleton**



## **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 development

**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

**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

**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

estimations The text begins with the foundations of measurement identifies the appropriate metrics and then focuses on techniques and tools for estimating the effort needed to reach a given level of quality and performance for a software project All the factors that impact estimations are thoroughly examined giving you the tools needed to regularly adjust and improve your estimations to complete a project on time within budget and at an expected level of quality This text includes several features that have proven to be successful in making the material accessible and easy to master Simple straightforward style and logical presentation and organization enables you to build a solid foundation of theory and techniques to tackle complex estimations Examples provided throughout the text illustrate how to use theory to solve real world problems Projects included in each chapter enable you to apply your newfound knowledge and skills Techniques for effective communication of quantitative data help you convey your findings and recommendations to peers and management Software Measurement and Estimation A Practical Approach allows practicing software engineers and managers to better estimate manage and effectively communicate the plans and progress of their software projects With its classroom tested features this is an excellent textbook for advanced undergraduate level and graduate students in computer science and software engineering An Instructor Support FTP site is available from the Wiley editorial department [Software Metrics](#) Norman Fenton, James Bieman, 2014-10-01 A Framework for Managing Measuring and Predicting Attributes of Software Development Products and Processes Reflecting the immense progress in the development and use of software metrics in the past decades Software Metrics A Rigorous and Practical Approach Third Edition provides an up to date accessible and comprehensive introduction to software metrics Like its popular predecessors this third edition discusses important issues explains essential concepts and offers new approaches for tackling long standing problems New to the Third Edition This edition contains new material relevant to object oriented design design patterns model driven development and agile development processes It includes a new chapter on causal models and Bayesian networks and their application to software engineering This edition also incorporates recent references to the latest software metrics activities including research results industrial case studies and standards Suitable for a Range of Readers With numerous examples and exercises this book continues to serve a wide audience It can be used as a textbook for a software metrics and quality assurance course or as a useful supplement in any software engineering course Practitioners will appreciate the important results that have previously only appeared in research oriented publications Researchers will welcome the material on new results as well as the extensive bibliography of measurement related information The book also gives software managers and developers practical guidelines for selecting metrics and planning their use in a measurement program **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 Foreword Metrics 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 testing Metrics for object oriented software development Availability metrics Methods for conducting in process quality assessments and software project assessments Dos and Don ts of Software Process Improvement by Patrick O Toole Using 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 Development Measurement Programs* Mirosław 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 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

*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

programme and design a data collection system and how to analyse the software data collected      Applied Software Measurement : Global Analysis of Productivity and Quality Capers Jones, 2008-04-11 Effectively forecast manage and control software across the entire project lifecycle Accurately size estimate and administer software projects with real world guidance from an industry expert Fully updated to cover the latest tools and techniques Applied Software Measurement Third Edition details how to deploy a cost effective and pragmatic analysis strategy You will learn how to use function points and baselines implement benchmarks and tracking systems and perform efficiency tests Full coverage of the latest regulations metrics and standards is included Measure performance at the requirements coding testing and installation phases Set function points for efficiency cost market share and customer satisfaction Analyze quality and productivity using assessments benchmarks and baselines Design and manage project cost defect and quality tracking systems Use object oriented reusable component Agile CMM and XP methods Assess defect removal efficiency using unit tests and multistage test suites      *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      *INCOSE Systems Engineering Handbook* INCOSE, 2015-06-12 A detailed and thorough reference on the discipline and practice of systems engineering The objective of the International Council on Systems Engineering INCOSE Systems Engineering Handbook is to describe key process activities performed by systems engineers and other engineering professionals throughout the life cycle of a system The book covers a wide range of fundamental system concepts that broaden the thinking of the systems engineering practitioner such as system thinking system science life cycle management specialty engineering system of systems and agile and iterative methods This book also defines the discipline and practice of systems engineering for students and practicing professionals alike providing an authoritative reference that is acknowledged worldwide The latest edition of the INCOSE Systems Engineering Handbook Is consistent with ISO IEC IEEE 15288 2015 Systems and software engineering System life cycle processes and the Guide to the Systems Engineering Body of Knowledge SEBoK Has been updated to include the latest concepts of the INCOSE working groups Is the body of knowledge for the INCOSE Certification Process This book is ideal for any engineering professional who has an interest in or needs to apply systems engineering practices This includes the experienced systems engineer who needs a convenient reference a product engineer or engineer in another discipline who needs to perform systems engineering a new systems engineer or anyone interested in learning more about systems engineering



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