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SOFTWARE ENGINEERING AND SOFTWARE DEVELOPMENT

# **Software Metrics**

**A Rigorous and  
Practical Approach**

**THIRD EDITION**

**Norman Fenton  
James Bieman**



**CRC Press**  
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# Software Metrics A Rigorous Approach

**Brian Randell, Jean-Claude  
Laprie, Hermann Kopetz, Bev  
Littlewood**



## **Software Metrics A Rigorous Approach:**

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environments It is specially designed for managers product supervisors and quality assurance personnel who want to know how to implement a metrics program

**Software Metrics, 3rd Edition** Norman Fenton, James Bieman, 2014 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

□□□□ N.E. □□□ (□), Norman E. Fenton, S.L. □□□ (□), 1997

**Testing and Quality Assurance for Component-based Software** Jerry Gao, H.-S. J. Tsao, Ye Wu, 2003 From the basics to the most advanced quality of service QoS concepts this all encompassing first of its kind book offers an in depth understanding of the latest technical issues raised by the emergence of new types classes and qualities of Internet services The book provides end to end QoS guidance for real time multimedia communications over the Internet It offers you a multiplicity of hands on examples and simulation script support and shows you where and when it is preferable to use these techniques for QoS support in networks and Internet traffic with widely varying characteristics and demand profiles This practical resource discusses key standards and protocols including real time transport resource reservation and integrated and differentiated service models policy based management and mobile wireless QoS The book features numerous examples simulation results and graphs that illustrate important concepts and pseudo codes are used to explain algorithms Case studies based on freely available Linux FreeBSD systems are presented to show you how to build networks supporting Quality of Service Online support material including presentation foils lab exercises and additional exercises are available to text adopters

Fundamental Approaches to Software Engineering Luciano Baresi, 2006-03-16 This book constitutes the refereed proceedings of the 9th International Conference on Fundamental Approaches to Software Engineering FASE 2006 held in Vienna Austria in March 2006 as part of ETAPS The 27 revised full papers two tool papers presented together with two invited papers were carefully reviewed and

selected from 166 submissions The papers are organized in topical sections

**Concise Guide to Software Engineering** Gerard O'Regan, 2022-09-24 This textbook presents a concise introduction to the fundamental principles of software engineering together with practical guidance on how to apply the theory in a real world industrial environment The wide ranging coverage encompasses all areas of software design management and quality Topics and features presents a broad overview of software engineering including software lifecycles and phases in software development and project management for software engineering examines the areas of requirements engineering software configuration management software inspections software testing software quality assurance and process quality covers topics on software metrics and problem solving software reliability and dependability and software design and development including Agile approaches explains formal methods a set of mathematical techniques to specify and derive a program from its specification introducing the Z specification language discusses software process improvement describing the CMMI model and introduces UML a visual modelling language for software systems reviews a range of tools to support various activities in software engineering and offers advice on the selection and management of a software supplier describes such innovations in the field of software as distributed systems service oriented architecture software as a service cloud computing and embedded systems includes key learning topics summaries and review questions in each chapter together with a useful glossary This practical and easy to follow textbook reference is ideal for computer science students seeking to learn how to build high quality and reliable software on time and on budget The text also serves as a self study primer for software engineers quality professionals and software managers

**Software Process Technology** Carlo Montangero, 1996-09-25 Content Description Includes bibliographical references and index

**Computational Intelligence in Software Engineering** Witold Pedrycz, James F. Peters, 1998 This unique volume is the first publication on software engineering and computational intelligence CI viewed as a synergistic interplay of neurocomputing granular computation including fuzzy sets and rough sets and evolutionary methods It presents a unified view of CI in the context of software engineering The book addresses a number of crucial issues what is CI what role does it play in software development how are CI elements built into successive phases of the software life cycle and what is the role played by CI in quantifying fundamental features of software artifacts With contributions from leading researchers and practitioners the book provides the reader with a wealth of new concepts and approaches complete algorithms in depth case studies and thought provoking exercises The topics coverage include neurocomputing granular as well as evolutionary computing object oriented analysis and design in software engineering There is also an extensive bibliography

**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 Engineering and Knowledge Engineering: Theory and Practice* Yanwen Wu,2012-01-16 The volume includes a set of selected papers extended and revised from the I2009 Pacific Asia Conference on Knowledge Engineering and Software Engineering KESE 2009 was held on December 19 20 2009 Shenzhen China Volume 1 is to provide a forum for researchers educators engineers and government officials involved in the general areas of Computer and Software Engineering to disseminate their latest research results and exchange views on the future research directions of these fields 140 high quality papers are included in the volume Each paper has been peer reviewed by at least 2 program committee members and selected by the volume editor Prof Yanwen Wu On behalf of this volume we would like to express our sincere appreciation to all of authors and referees for their efforts reviewing the papers Hoping you can find lots of profound research ideas and results on the related fields of Computer and Software Engineering     **Software Project Management** Robert Bruce Kelsey,2006-03-01 Software Project Management Measures for Improving Performance focuses on more than the mechanics of project execution By showing the reader how to identify and solve real world problems that put schedule cost and quality at risk this guide gets to the heart of improving project control and performance Identify measurement needs and goals Determine what measures to use to maximize the value of data Interpret data and report the results Diagnose quality and productivity issues Use metrics data to solve real problems This is a must read for project managers and engineering managers working in organizations where deadlines are tight the workload is daunting and daily crises are the rule rather than the exception The text provides simple run rate data through progressively advanced measures as well as Examples that show you how to combine measures to solve complex problems Exercises that guide you through best practices for metric program development and implementation From beginning to end Software Project Management Measures for Improving Performance guides you to improved project performance long before you turn the last page     Software Quality and Productivity M. Lee,Ben-Zion

Barta, Peter Juliff, 2013-04-17 As the world becomes increasingly dependent on the use of computers the need for quality software which can be produced at reasonable cost increases This IFIP proceedings brings together the work of leading researchers and practitioners who are concerned with the efficient production of quality software

**Database and Expert Systems Applications** Heinrich C. Mayr, Jiri Lazansky, Gerald Quirchmayr, Pavel Vogel, 2003-06-29 th DEXA 2001 the 12 International Conference on Database and Expert Systems Applications was held on September 3 5 2001 at the Technical University of Munich Germany The rapidly growing spectrum of database applications has led to the establishment of more specialized discussion platforms DaWaK conference EC Web conference and DEXA workshop which were all held in parallel with the DEXA conference in Munich In your hands are the results of much effort beginning with the preparation of the submitted papers The papers then passed through the reviewing process and the accepted papers were revised to final versions by their authors and arranged with the conference program All this culminated in the conference itself A total of 175 papers were submitted to this conference and I would like to thank all the authors They are the real base of the conference The program committee and the supporting reviewers produced altogether 497 referee reports on average of 2 84 reports per paper and selected 93 papers for presentation Comparing the weight or more precisely the number of papers devoted to particular topics at several recent DEXA conferences an increase can be recognized in the areas of XMS databases active databases and multi and hypermedia efforts The space devoted to the more classical topics such as information retrieval distribution and Web aspects and transaction indexing and query aspects has remained more or less unchanged Some decrease is visible for object orientation

**Predictably Dependable Computing Systems** Brian Randell, Jean-Claude Laprie, Hermann Kopetz, Bev Littlewood, 2013-11-11

**Achieving Quality in Software** S. Bologna, G. Bucci, 2013-11-11

Software quality is a generalised statement difficult to agree or disagree with until a precise definition of the concept of Software Quality is reached in terms of measurable quantities Unfortunately for the software technology the basic question of what to measure how to measure when to measure how to deal with the data obtained are still unanswered and are also closely dependant on the field of application In the past twenty years or more there have been a number of conferences and debates focusing on the concept of Software Quality which produced no real industrial impact Recently however the implementation of a few generic standards ISO 9000 IEEE etc has produced and improved application of good practice principles at the industrial level As a graduate in PhYSiCS I still believe it is a long way before the concept of Software Quality can be defined exactly and measured if ever This is way I think the AQuIS series of conferences is important its object begin to provide a platform for the transfer of technology and know how between Academic Industrial and Research Institutions in the field of Software Quality Their objects are to provide a forum for the introduction and discussion of new research breakthroughs in Software Quality to provide professional Software Quality engineers with the necessary exposure to the results of current research to expose the research community to the problems of practical application of new results

Research into Practice - Reality and Gaps George Heineman, Jan Kofron, Frantisek Plasil, 2010-06-16 This book constitutes the thoroughly refereed proceedings of the 6th International Conference QoSA 2010 held in Prague Czech Republic in June 2010 The 11 revised long papers were selected from 32 submissions and are organized in topical sections on Model Driven Analysis Quality of Service Adaption as well as Case Studies and Experience Reports



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