

CHAPMAN & HALL/CRC INNOVATIONS IN  
SOFTWARE ENGINEERING AND SOFTWARE DEVELOPMENT

# Software Metrics

**A Rigorous and  
Practical Approach**

**THIRD EDITION**

**Norman Fenton  
James Bieman**



**CRC Press**  
Taylor & Francis Group

A CHAPMAN & HALL BOOK

# Software Metrics A Rigorous And Practical Approach

**Benkt Wangler, Lars Bergman**



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

*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

**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

*Software Metrics* Norman E. Fenton, 2015 This book provides an up to date and rigorous framework for controlling managing and predicting software development processes Emphasizing real world applications the authors apply basic ideas in measurement theory to quantify software development resources processes and products The text offers an accessible and comprehensive introduction to software metrics It features extensive case studies in addition to worked examples and exercises This new edition covers current research and practical applications of cost estimation methods in practice

*Software Metrics* Norman E. Fenton, 1995 N.E. Fenton (Ed.), Norman E. Fenton, S.L. Fenton (Ed.), 1997 *IBM Systems Journal* International Business Machines Corporation, 2001

**Conceptual Modeling - ER 2005** Christian Kop, Heinrich C. Mayr, John Mylopoulos, Oscar Pastor, 2005-11-15 Conceptual modeling is fundamental to any domain where one must cope with complex real world situations and systems because it fosters communication between technology experts and those who would benefit from the application of those technologies Conceptual modeling is the key mechanism for understanding and representing the domains of information system and database engineering but also increasingly for other domains including the new virtual environments and the information systems that support them The importance of conceptual modeling in software engineering is evidenced by recent interest in model driven architecture and extreme programming Conceptual modeling

also plays a prominent role in various technical disciplines and in the social sciences The Annual International Conference on Conceptual Modeling referred to as the ER Conference provides a central forum for presenting and discussing current research and applications in which conceptual modeling is the major emphasis In keeping with this tradition ER 2005 the 24th ER Conference spanned the spectrum of conceptual modeling including research and practice in areas such as theories of concepts and ontologies underlying conceptual modeling methods and tools for developing and communicating conceptual models and techniques for transforming conceptual models into effective information system implementations Moreover new areas of conceptual modeling including Semantic Web services and the interdependencies of conceptual modeling with knowledge based logical and linguistic theories and approaches were also addressed

**Transactions on Aspect-Oriented Software Development I** Awais Rashid, 2006-03-06 This journal is devoted to aspect oriented software development AOSD techniques in the context of all phases of the software life cycle from requirements and design to implementation maintenance and evolution The focus of the journal is on approaches for systematic identification modularization representation and composition of crosscutting concerns evaluation of such approaches and their impact on improving quality attributes of software systems

*Advanced Information Systems Engineering* Benkt Wangler, Lars Bergman, 2000-05-24 CAiSE 2000 was the 12th in the series of International Conferences on Advanced Information Systems Engineering In the year 2000 the conference returned to Stockholm where it was organized the very first time Since that year 1989 the CAiSE conferences have developed into an important forum for the presentation and exchange of research results and practical experiences within the field of Information Systems Engineering The objective of the CAiSE conference series is to bring together researchers and practitioners in the field of information systems engineering to meet annually in order to discuss evolving research issues and applications in this field The CAiSE conference series also aims to provide an opportunity for young scientists to establish relationships with senior scientists in their areas of interest Stockholm is an important center of research and development for some of the leading IT and communications companies in Europe and indeed in the world In tune with this environment a major theme of CAiSE 2000 was information systems and services in a digitized world This theme reflects the vast improvements in communication technology including the increasing use of Internet and WWW that has taken place over the last years and that has led to better communication and easier information access in general In addition this development has initiated changes in the way organizations cooperate and trade

**Proceedings**, 1999 *Information Resources Management*, 2010-01-01 This work is a comprehensive four volume reference addressing major issues trends and areas for advancement in information management research containing chapters investigating human factors in IT management as well as IT governance outsourcing and diffusion Provided by publisher

**Software Reuse: Advances in Software Reusability** William B. Frakes, 2000-06-14 This book constitutes the refereed proceedings of the 6th International Conference on Software Reuse ICSR 6 held in Vienna Austria in June 2000 The

26 revised full papers presented were carefully reviewed and selected from numerous submissions The book is divided into topical sections on generative reuse and formal description languages object oriented methods product line architectures requirements reuse and business modeling components and libraries and design patterns

**Product-Focused Software Process Improvement** Jürgen Münch, Matias Vierimaa, 2006-09-21 This book constitutes the refereed proceedings of the 7th International Conference on Product Focused Software Process Improvement PROFES 2006 held in Amsterdam June 2006 The volume presents 26 revised full papers and 12 revised short papers together with 6 reports on workshops and tutorials The papers constitute a balanced mix of academic and industrial aspects organized in topical sections on decision support embedded software and system development measurement process improvement and more

*Proceedings of the Joint 10th European Software Engineering Conference (ESEC) and the 13th ACM SIGSOFT Symposium on the Foundations of Software Engineering (FSE-13)* Harald Gall, 2005

*Product Focused Software Process Improvement*, 2005

**Software Engineering, The Development Process** Richard H. Thayer, Mark J. Christensen, 2005-11-11 This book integrates a useful set of software engineering standards with accompanying papers on specific knowledge areas in software engineering Used as a CSDP resource guide it should improve a test taker's ability to pass the IEEE CSDP Certified Software Development Professionals exam

Reliability, Quality and Safety of Software-Intensive Systems Dimitris Gritzalis, 1997-04-30 The book includes a number of refereed papers selected from those presented during the 3rd International Conference on Reliability Quality and Safety of Software Intensive Systems ENCRESS 97 that took place in Athens Greece on 29-30 May 1997 The book first provides its reader with state of the art information on issues with a major importance to the researchers and professionals who are active in the area of software intensive systems

2nd IEEE International Symposium on Object-Oriented Real-Time Distributed Computing (ISORC'99), 1999 Presents papers from a May 1999 symposium in sections on analysis and design middleware and operating systems applications tools and services modeling and evaluation object oriented techniques for resource constrained architectures QoS assurance software architecture fault tolerance and re

**Development and Evolution of Software Architectures for Product Families** Frank van der Linden, 1998-08-12 This book originates from a workshop organised by ESPRIT project 20 477 ARES in Las Palmas de Gran Canaria Spain February 1998 ARES is an acronym for Architectural Reasoning for Embedded Systems Within this project we investigate techniques to deal with problems of software architecture of families of embedded systems It is the second workshop organised by this project Its predecessor was held in Las Navas de Marques Spain November 1996 The proceedings of the first workshop are only available in electronic format at <http://www.dit.upm.es/ares> The second workshop succeeded even more than the first one in gathering many of the most prominent people working in the area of software architecture for product families or product lines This second workshop consisted of six sessions The first session was meant to report the ARES results according to the topics of the next five sessions The remaining sessions dealt with different aspects of software architecture focussed on

applications for product families or product lines Because there will be a separate book covering all ARES results the first session is not included in this book The workshop was chaired by Henk Obbink from Philips Research and Paul Clements from the Software Engineering Institute at Carnegie Mellon University They prepared and presented an overall conclusion at the end of the workshop This conclusion was used in the introduction to this book      **Subject Guide to Books in Print**  
,1991

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