



DRAFT COVER as of 12/01

# IT Measurement

Practical Advice from the Experts

International **Function Point** Users Group

Foreword by Ed Yourdon

# **It Measurement Practical Advice From The Experts**

Michael D. S. Harris, David Herron, Stasia Iwanicki

#### **It Measurement Practical Advice From The Experts:**

IT Measurement International Function Point Users Group, 2002 With Contributions by Capers Jones Howard Rubin David Garmus Lawrence Putnam and Elizabeth Clark The accurate quantitative measurement of software quality and process performance is rapidly becoming an essential part of competition in the ever tightening software marketplace Software metrics provide insights into productivity and quality gains from improvements in skill technology and development methodology An effective metrics program helps practitioners assemble the best team select the optimal development methodology and enhance the quality of a software product In short metrics enable software developers to pursue proven successful strategies and to change course when metrics point to less than optimum quality or productivity Written by the world's leading authorities in the field IT Measurement showcases state of the art in software metrics and provides the practical knowledge that practitioners need in order to take full advantage of software metrics technology The book s collected articles offer important perspectives on the role of metrics in the development process and show how metrics directly enhance software quality and output efficiency The book explores several vital areas including Function Point Analysis project estimation and management outsourcing statistical process control and more These articles range from basic theory to the sophisticated application of metrics Specific topics covered include The expanding role of function point metrics Work output measurement for IT work units The use of metrics for tracking Enhanced estimation with metrics Metrics in outsourcing Standardization of SLOC The application of SPC to performance management Functional metrics in B2B e commerce project success Enlightening and pragmatic IT Measurement will help you gain a deeper understanding of software metrics and the ability to apply concrete measures in order to objectively evaluate and more finely shape your software development program 020174158XB02212002 The IT Measurement Compendium Manfred Bundschuh, Carol Dekkers, 2008-08-15 As projects get more complicated managers stop learning from their perience It is important to understand how that happens and how to change it Fallible estimates In software development initial estimates for a project shape the trajectory of decisions that a manager makes over its life For ex ple estimates of the productivity of the team members influence decisions about the size of the team which in turn affect the team s actual output The trouble is that initial estimates usually turn out to be wrong Sengupta 2008 This book aims directly to increase the awareness among managers and practitioners that estimation is as important as the work to be done in so ware and systems development You can manage what you can measure Readers will find in this book a collection of lessons learned from the worldwide metrics community which we have documented and enhanced with our own experiences in the field of software measurement and estimating Our goal is to support our readers to harvest the benefits of estimating and prove their software development processes We present the 5 ISO I acknowledged Functional Sizing Methods with variants experiences counting rules and case studies and most importantly illustrate through practical amples how to use functional size measurement to produce

realistic estimates The book is written in a practical manner especially for the busy practitioner community It is aimed to be The IFPUG Guide to IT and Software Measurement used as a manual and an assistant for everyday work IFPUG,2012-04-25 The widespread deployment of millions of current and emerging software applications has placed software economic studies among the most critical of any form of business analysis Unfortunately a lack of an integrated suite of metrics makes software economic analysis extremely difficult The International Function Point Users Group IFPUG a nonprofit and member governed organization has become the recognized leader in promoting the effective management of application software development and maintenance activities The IFPUG Guide to IT and Software Measurement brings together 52 leading software measurement experts from 13 different countries who share their insights and expertise Covering measurement programs function points in measurement new technologies and metrics analysis this volume Illustrates software measurement s role in new and emerging technologies Addresses the impact of agile development on software measurement Presents measurement as a powerful tool for auditing and accountability Includes metrics for the CIO Edited by IFPUG s Management and Reporting Committee the text is useful for IT project managers process improvement specialists measurement professionals and business professionals who need to interact with IT professionals and participate in IT decision making It includes coverage of cloud computing agile development quantitative project management process improvement measurement as a tool in accountability project ROI measurement metrics for the CIO value stream mapping and benchmarking Mastering the Requirements Process Suzanne Robertson, James C. Robertson, 2006-03-17 If the purpose is to create one of the best books on requirements yet written the authors have succeeded Capers Jones It is widely recognized that incorrect requirements account for up to 60 percent of errors in software products and yet the majority of software development organizations do not have a formal requirements process Many organizations appear willing to spend huge amounts on fixing and altering poorly specified software but seem unwilling to invest a much smaller amount to get the requirements right in the first place Mastering the Requirements Process Second Edition sets out an industry proven process for gathering and verifying requirements with an eye toward today s agile development environments In this total update of the bestselling guide the authors show how to discover precisely what the customer wants and needs while doing the minimum requirements work according to the project's level of agility Features include The Volere requirements process completely specified and revised for compatibility with agile environments A specification template that can be used as the basis for your own requirements specifications New agility ratings that help you funnel your efforts into only the requirements work needed for your particular development environment and project How to make requirements testable using fit criteria Iterative requirements gathering leading to faster delivery to the client Checklists to help identify stakeholders users nonfunctional requirements and more Details on gathering and implementing requirements for iterative releases An expanded project sociology section for help with identifying and communicating with stakeholders Strategies for

exploiting use cases to determine the best product to build Methods for reusing requirements and requirements patterns Examples showing how the techniques and templates are applied in real world situations Enterprise Application *Integration* David S. Linthicum, 2000 Dealing with the concepts behind a vendor s products this a guide for IT managers on how to ensure the IT infrastructure matches the need of the enterprise and which procedures should be followed to ensure Software Development Patterns and Antipatterns Capers Jones, 2021-08-27 Software development has been a troubling since it first started There are seven chronic problems that have plagued it from the beginning Incomplete and ambiguous user requirements that grow by 2% per month Major cost and schedule overruns for large applications 35% higher than planned Low defect removal efficiency DRE Cancelled projects that are not completed 30% above 10 000 function points Poor quality and low reliability after the software is delivered 5 bugs per FP Breach of contract litigation against software outsource vendors Expensive maintenance and enhancement costs after delivery These are endemic problems for software executives software engineers and software customers but they are not insurmountable In Software Development Patterns and Antipatterns software engineering and metrics pioneer Capers Jones presents technical solutions for all seven The solutions involve moving from harmful patterns of software development to effective patterns of software development The first section of the book examines common software development problems that have been observed in many companies and government agencies The data on the problems comes from consulting studies breach of contract lawsuits and the literature on major software failures This section considers the factors involved with cost overruns schedule delays canceled projects poor quality and expensive maintenance after deployment The second section shows patterns that lead to software success The data comes from actual companies The section's first chapter on Corporate Software Risk Reduction in a Fortune 500 company was based on a major telecom company whose CEO was troubled by repeated software failures The other chapters in this section deal with methods of achieving excellence as well as measures that can prove excellence to C level executives and with continuing excellence through the maintenance cycle as well as for software COSMIC Function Points Reiner Dumke, Alain Abran, 2016-04-19 Designed to conform to the ISO IEC development standard 14143 the Common Software Measurement International Consortium COSMIC Function Point method has become the major estimation technique based on international standards for building software intensive systems COSMIC Function Points Theory and Advanced Practices supplies a cutting edge look at current a **Software Pipelines and SOA** Corv Isaacson, 2008-12-23 This is the eBook version of the print title Access to tools sample templates and source code is available through the product catalog page www informit com title 0137137974 Navigate to the Downloads tab and click on the link to download zip file Build Breakthrough Performance into Any SOA or Advanced Computing Application To meet unprecedented demand IT organizations must improve application performance by an order of magnitude Improving performance is even more crucial in SOA environments which demand far more computing power than older architectures Today's multi core

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technologies networks distributed and parallel computing wireless networks information and data management web applications and software systems multimedia ad hoc networks mobile computing as well as miscellaneous topics in digital information and communications Simple Statistical Methods for Software Engineering C. Ravindranath Pandian, Murali Kumar, 2015-05-21 Although there are countless books on statistics few are dedicated to the application of statistical methods to software engineering Simple Statistical Methods for Software Engineering Data and Patterns fills that void Instead of delving into overly complex statistics the book details simpler solutions that are just as effective and connect wi

Measurement Demystified David Vance, Peggy Parskey, 2020-11-17 Your Groundbreaking Framework for Measurement and Reporting Most people find measurement analytics and reporting daunting and L select create and use the right types of reports and create a comprehensive measurement and reporting strategy Recognizing the angst and reluctance people often show in these areas authors and experts David Vance and Peggy Parskey break down the practices and processes by providing a common language and an easy to use structure They describe five types of reports four broad reasons to measure and three categories of measures Their method works for large and small organizations even if yours is an L D staff of one or two The guidance remains the same Start small and grow Measurement Demystified is a great first book for talent development professionals with no prior knowledge of or experience with measurement and a valuable resource for measurement experts Those adept at lower levels of training evaluation will grow their knowledge base and capabilities while measurement experts will discover shortcuts and nuggets of information to enhance their practices A more comprehensive treatment of these important topics will not be found elsewhere INFORMATION SYSTEMS MANAGEMENT IN BUSINESS AND DEVELOPMENT ORGANIZATIONS HAREKRISHNA MISRA, 2013-06-03 Management Information Systems MIS has fast emerged as a multi disciplinary area having strategic interfaces to achieve organizational objectives This comprehensive book discusses the underlying principles of business and development organizations identifies their core areas and prescribes approaches to develop MIS Divided into five parts Part I Understanding Organizations for MIS deals with organizational issues and focuses on the rationale behind creating organizations especially business and development organizations to understand their distinguishing features Part II Systems Approach to Organizations covers conceptualization identification design and development of Information System IS for the organization in order to have better systems in place to support organizational goals Part III Understanding MIS discusses the relevance of MIS in organizations and the forms it can take to meet the strategic needs of the respective organizations Part IV Understanding Information Technologies describes possible approaches to plan identify and deploy ICT in the acquiring organizations and provides insight into the barriers that creep in during identification and deployment of IS and ICT keeping in view the organizational objectives Part V Planning and Implementation of MIS concludes with a discussion on preparation of MIS plan and issues related to its implementation The book is intended for the postgraduate students of management specializing in rural management and IT

Key Features Describes life cycle approach and systems approach to organizations Contains a large number of case studies Provides real life examples to put the concepts in the right perspective Business Intelligence Roadmap Larissa Terpeluk Moss, S. Atre, 2003 This software will enable the user to learn about business intelligence roadmap **Developing** E-Government Projects: Frameworks and Methodologies Mahmood, Zaigham, 2013-06-30 The emergence of e government allows for effective governance increased transparency better management and efficient services through the use of the internet and information and communication technologies Therefore world governments are mobilizing large amounts of resources in order to implement and promote the use of e government Developing E Government Projects Frameworks and Methodologies presents frameworks and methodologies for strategies towards the design implementation and adoption of e government projects By providing best practices in the successful adoption of e government this book is essential for policy makers practitioners researchers and students interested in the approaches utilized for the successful implementation of e government projects Managing Enterprise Information Technology Acquisitions: Assessing **Organizational Preparedness** Misra, Harekrishna, Rahman, Hakikur, 2013-06-30 For organizations operating in a modern business environment adopting the latest information technologies IT is of paramount importance Organizational decision makers are increasingly interested in IT acquisition constantly seeking the most advanced solutions in order to give their constituents a distinct competitive advantage Managing Enterprise Information Technology Acquisitions Assessing Organizational Preparedness provides leaders and innovators with research and strategies to make the most of their options involving IT and organizational management approaches This book will serve as a critical resource for leaders managers strategists and other industry professionals who must be prepared to meet the constant changes in the field of information technologies in order to effectively guide their organizations and achieve their respective goals

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# **Table of Contents It Measurement Practical Advice From The Experts**

- 1. Understanding the eBook It Measurement Practical Advice From The Experts
  - The Rise of Digital Reading It Measurement Practical Advice From The Experts
  - Advantages of eBooks Over Traditional Books
- 2. Identifying It Measurement Practical Advice From The Experts
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an It Measurement Practical Advice From The Experts
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from It Measurement Practical Advice From The Experts
  - Personalized Recommendations
  - It Measurement Practical Advice From The Experts User Reviews and Ratings
  - It Measurement Practical Advice From The Experts and Bestseller Lists

- 5. Accessing It Measurement Practical Advice From The Experts Free and Paid eBooks
  - It Measurement Practical Advice From The Experts Public Domain eBooks
  - It Measurement Practical Advice From The Experts eBook Subscription Services
  - It Measurement Practical Advice From The Experts Budget-Friendly Options
- 6. Navigating It Measurement Practical Advice From The Experts eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - It Measurement Practical Advice From The Experts Compatibility with Devices
  - It Measurement Practical Advice From The Experts Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of It Measurement Practical Advice From The Experts
  - Highlighting and Note-Taking It Measurement Practical Advice From The Experts
  - Interactive Elements It Measurement Practical Advice From The Experts
- 8. Staying Engaged with It Measurement Practical Advice From The Experts
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers It Measurement Practical Advice From The Experts
- 9. Balancing eBooks and Physical Books It Measurement Practical Advice From The Experts
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection It Measurement Practical Advice From The Experts
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine It Measurement Practical Advice From The Experts
  - Setting Reading Goals It Measurement Practical Advice From The Experts
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of It Measurement Practical Advice From The Experts
  - Fact-Checking eBook Content of It Measurement Practical Advice From The Experts
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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