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Function Point Analysis Measurement Practices For Successful Software Projects Information Technology

*On behalf of the PROFES
Organizing Committee, we are
proud to present to you the
proceedings of the 9th
International Conference on
Product-Focused Software
Process Improvement (PROFES
2008) held in Frascati -*

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Monteporzio Catone, Rome,
Italy. Since 1999, PROFES has
established itself as one of the
recognized international
process improvement
conferences. The main theme
of PROFES is professional so-
ware process improvement
(SPI) motivated by product and
service quality needs.
Focussing on a product to be
developed, PROFES 2008
addressed both quality en-
neering and management
topics including processes,
methods, techniques, tools, -
ganizations, and enabling SPI.
Both solutions found in practice
and the relevant research
results from academia were

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presented. Domains such as the automotive and mobile applications industry are growing rapidly, resulting in a strong need for professional development and improvement. Nowadays, the majority of embedded software is developed in collaboration, and distribution of embedded software development continues to increase. Thus, PROFES 2008 addressed different development modes, roles in the value chain, stakeholders' viewpoints, collaborative development, as well as economic and quality aspects. Agile development was included again as one of the

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themes. Since the beginning of
the series of PROFES

*conferences, the purpose has
been to bring to light the most
recent findings and novel
results in the area of process -
provement, and to stimulate
discussion among researchers,
experienced professionals, and
technology providers from
around the world.*

*The idea of Business Rules has
been around for a while.*

*Simply put, a Business Rule is
a statement that defines or
constrains some aspect of the
business. In practice they are
meant to reduce or eliminate
the delays, waste, and
frustration associated with the*

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IT department having to be involved with almost every action affecting an organization's information systems. The advent of Web services has created renewed interest in them. There are now several well established rules-based products that have demonstrated the effectiveness of their use. But until now there has not been a definitive guide to Business Rules. Ron Ross, considered to be the father of Business Rules, will help organizations apply this powerful solution to their own computer system problems. This book is intended to be the first book

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*that anyone from an IT
manager to a business
manager will read to*

*understand what Business
Rules are, and what how they
can be applied to their own
situation.*

*A clear and concise
introduction and reference for
anyone new to the subject of
statistics.*

*Provides everything needed to
implement Mk II FPA, which
was previously available only
under license. Mk II FPA
represents a new generation of
Function Point Analysis. It
provides a set of software
measurement techniques
suitable for sizing and*

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estimating business
applications software. This is a
fully integrated and
calibratable method for
estimating effort, time and
manpower required for
software development projects,
taking into account the
concepts of risk analysis.

*Written by the originator of the
method, provides the complete
definition, case studies and
practical tips on
implementation.*

*Advances in Computers
Proceedings of International
Conference on ICT for
Sustainable Development
Better Practices of Project
Management Based on IPMA*

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Practices For Successful
competences - 4th revised
Software Projects Information
edition

Technology
A Practical Guide to Functional
Measurements

Function Point Analysis

Theory and Advanced Practices

Software legend Capers Jones reveals the tight links between software quality, ROI, and TCO, and help you optimize all three •

•Strong empirical evidence that high quality generates strongly positive ROI and reduced TCO.

•Practical ways to prevent defects, and remove them in pre-test, test, and postrelease. •Easy checklists for assessing and improving practice, plus insights into the costs/benefits of intervention. •By renowned

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**software consultant Capers
Jones. In this book, world-
renowned software management
expert Capers Jones and
software quality guru Jitendra
Subramanyam help development
leaders and practitioners
quantify and optimize the
economic impact of quality
throughout the software lifecycle
- and then choose the highest
value interventions to improve it.
The authors introduce powerful
empirical and field data on the
ability of inspection, static
analysis, and test methods to
reduce up to 95% of defects, and
discuss the business value of
improvements of this magnitude.
The Economics of Software**

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Quality is based on proven best quality practices in IT departments and at world-leading integrators, embedded software companies, and systems software groups. Jones and Curtis bring together crucial new information on: •

- Identifying and fixing the root causes of short- and long-term software cost inefficiencies.**
- Predicting and measuring software defects and their quality impacts.**
- Assessing current practices and identifying the best interventions.**
- Calculating the ROI of quality during development and maintenance.**
- Comparing and choosing methods of defect prevention.**

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- **Selecting methods of defect removal, such as inspections and static analysis.**

- **Understanding and evaluating more than 20 kinds of software testing.**
- **Best practices for postrelease defect reporting and repair.**
- **Recognizing 'hazardous' metrics and their problems**

"Mastering the Requirements Process: Getting Requirements Right" sets out an industry-proven process for gathering and verifying requirements, regardless of whether you work in a traditional or agile development environment. In this sweeping update of the bestselling guide, the authors show how to discover precisely

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**what the customer wants and
needs, in the most efficient
manner possible.**

***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***

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improvement, and more.
This is the revised edition of the first text book In English specially developed for training for IPMA-D and IPMA-C exams, now based on Version 4 of the ICB. In this 4th edition, the text has been restructured to align with the structure of the competence elements in the ICB version 4, divided into Practice competences, People competences and Perspective competences. Therefore, this book will be essential guidance and study book for everyone studying for the IPMA-D, IPMA-C and IPMA-B exams. Besides that, it is an extremely rich source book for those project managers

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that have committed themselves to a lifelong professional development. In addition, the book had to be applicable to groups of project managers originating from diverse cultures. For this reason, this is not a book that tells how a Westerner must behave in an Arab or an Asian country, but one that looks at the different subjects covered in the ICB, as seen from diverse cultural standpoints. Each chapter is based on the same structure: Key concepts, Introduction, Actions that lead to competence development, Self-assessment, Special topics, Assignments. Text boxes, additional to the main text, give

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**additional explanation to the
main text. An elaborate Index of
terms allows that this book can
be used as a highly up-to-date
information source to all aspects
of project management. Next to
that all, a web-site is available
with videos, discussion fora on
specific topics, and the
opportunity to discuss with the
author.**

**Measuring the Software Process
Innovations and Advanced
Techniques in Computer and
Information Sciences and
Engineering**

**Software Process and Product
Measurement**

**The Economics of Software
Quality**

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***Function Point Analysis (FPA)
for Software Enhancement
International Conferences IWSM
2009 and Mensura 2009***

***Amsterdam, The Netherlands,
November 4-6, 2009.***

Proceedings

**This book constitutes the
refereed proceedings of
the 16th International
Conference on Product-
Focused Software Process
Improvement, PROFES
2015, held in Bolzano,
Italy, in December 2015.
The 18 revised full papers
presented together with
10 short papers and 18
workshop papers were**

carefully reviewed and selected from 50 submissions. The papers are organized in topical sections on lessons learned from industry-research collaborations; instruments to improve the software development process; requirements, features, and release management; practices of modern development processes; human factors in modern software development; effort and size estimation validated by professionals; empirical generalization;

software reliability and testing in industry; workshop on processes, methods and tools for engineering embedded systems; workshop on human factors in software development processes; and workshop on software startups: state of the art and state of the practice. Gathering customer requirements is a key activity for developing software that meets the customer's needs. A concise and practical overview of everything a requirements analyst

needs to know about establishing customer requirements, this first-of-its-kind book is the perfect desk guide for systems or software development work.

Function point analysis is established internationally as a method for determining the scope and functional size of software from an assessment of the user requirements. The IFPUG “Function Point Counting Practices Manual” and the Nesma FPA counting practices manual

**“Definitions and Counting
Guidelines for the
Application of Function
Point Analysis” both
follow the “Albrecht”
method and describe how
to apply the method to
implemented systems,
software development and
software enhancement.
Application of the method
to software enhancement
is not well developed;
other priorities have
prevented a more
considered treatment of
this aspect of its
application in the past.
Function point analysis**

has been applied extensively to the development of new software. Its use in this respect is well established and is supported by a wealth of research and practical experience. It is now appropriate to explore in greater depth the application of FPA to software enhancement and maintenance. Users of software metrics need to know whether FPA can be successfully applied to software enhancement and, if so, in what way and within what

constraints.

Consideration of these issues led NESMA to form the working group on “FPA for Enhancement and Maintenance”. These guidelines apply FPA for enhancement projects, adjusting the regular weight of a function impacted by the enhancement project by an impact factor. The impact factor depends on the degree in which the function is enhanced by the project. The guidelines are universally applicable, so also using

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**the IFPUG CPM 4.3 FPA
guidelines as your basic
FPA measure. Objectives**

**The Guide is intended for
anyone with an interest in
the management of
enhancements to an
information system. The
Guide describes an
objective and replicable
method for assessing the
scope and size of an
enhancement project. The
method is objective in
that the results obtained
are independent of the
person applying the
method; the result
obtained is bona fide in**

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**that two different people
using the same guidelines
obtain the same result.**

**The method is replicable
in that a particular
outcome can be
determined a priori, and
the same outcome can be
produced on the second
and subsequent
applications of the
method. Intended**

**Audience The Guide is
intended for anyone who
performs function point
analysis and wants to
measure the size of
enhancement projects
more precisely. It is**

assumed that the reader is familiar with the standard FPA method. Scope of the Research NESMA considered the application of FPA to software enhancement from the perspective of the standard function point analysis method. The result of this work, embodied in these guidelines, is a method applicable to software enhancement and testing that is strongly related to the standard FPA method. The term Enhancement Function Point Analysis

(EFPA) is used to differentiate the method from the standard function point analysis method. Disclaimer The method has been tried in practice. However, NESMA does not claim that the method in its current form has been validated scientifically. Additional research and practical use is necessary to demonstrate the validity of the method. By offering this guide to the international functional software measurement community, NESMA

**wants to advance the application of function point analysis to enhancement projects and to broaden the understanding of measurement applied to software enhancement. NESMA is not responsible for any use of this method or for the results obtained from its application. Comments and suggestions for further improvement of this method may be sent to office@nesma.org.
Function Point Analysis:
Measurement Practices**

**for Successful Software
Projects is a
comprehensive
presentation of the
principles of function
point analysis (FPA) and a
guide to its effective use
in managing the
development and
deployment of software.
Written for both
information technology
(IT) practitioners and
managers, it describes
how to use this proven-
but-underutilized
software-sizing metric to
achieve successful
software projects.**

Completely up-to-date, the book introduces the latest rules and guidelines released in the International Function Point Users Group (IFPUG) Counting Practices Manual 4.1. Function Point Analysis presents fundamental counting techniques for basic-to-advanced technologies. It explains the calculations for determining function point size, an indication of a software application's overall functionality and complexity. Moving

beyond mechanics, the book features the most common uses of FPA and reveals experience-based techniques for applying the methodology with success. The book covers such important topics as:

- An overview of FPA for the IT executive**
- A description of software measurement, relating size to other software metrics**
- Sizing data and transactional functions**
- The application of general system characteristics**
- Counting object-oriented, Web-**

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**based, client-server, and
GUI applications
Becoming a Certified
Function Point Specialist
(CFPS), using a practice
exam The use of FPA for
accurate project
estimating, development
and maintenance
outsourcing, and
performance productivity
baselining FPA
automation tools,
including function point
repository tools and
function point- based
project estimation tools
The role of FPA in
standardizing industry**

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**benchmarking data
Numerous detailed
examples and case
studies demonstrate the
FPA methodology in
action. As a reference,
tutorial, and practical
guide, Function Point
Analysis: Measurement
Practices for Successful
Software Projects raises
the level of awareness
and understanding of FPA
and its role in bringing
proven quality standards
to the software
development industry.**

**0201699443B04062001
16th International**

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**Conference, PROFES
2015, Bolzano, Italy,
December 2-4, 2015,**

Proceedings

Hosted by CSI

**Vishakapatnam Chapter
Business Intelligence
Roadmap**

Statistics in a Nutshell

**A Guide to Selecting
Software Measures and
Metrics**

Contemporary Computing

**There's more to IT than
technology! Yes, IT involves
computers, software, and
services, but good IT
synthesizes these elements
with a concentration on how**

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your organization can best meet its goals. Increasingly, the IT department is the hub of any company-and companies expect IT managers to accomplish a variety of tasks with limited resources. Thus, CIOs must hone their organizational and managerial skills to run the most effective program possible. Join author Jan De Sutter as he details the range of methodologies necessary for effective IT management, from how to align your IT department with the mission of your organization to how to measure and present the results of your work. The

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Power of IT is a must-have for CIOs, IT managers, IT professionals, and MBA students everywhere, and is sure to become a much-utilized resource in company libraries, business management courses, and the personal collections of those who not only want to get IT done, but who also want to do IT right.

This present volume describes some of the latest advances in the computer science field today. This current volume emphasizes information processing with chapters on artificial intelligence, data bases and software

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engineering. In particular it looks at the interfaces between AI and software development with chapters on how AI affects the development of correct programs, and conversely, how software engineering can affect the development of correct AI programs. Key Features: * In-depth surveys and tutorials on new computer technology. * Well-known authors and researchers in the field. * Extensive bibliographies with most chapters. * Impact of AI on software development and impact of software development on correct AI programs. * What is the

**educational role of
mathematics in the
development of the next
generation of computer
professional? * In-depth
surveys and tutorials on new
computer technology. * Well-
known authors and
researchers in the field. *
Extensive bibliographies with
most chapters. * Impact of AI
on software development and
impact of software
development on correct AI
programs. * What is the
educational role of
mathematics in the
development of the next
generation of computer
professional?**

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**The Certified Function Point
Specialist Examination Guide**

**provides a complete and
authoritative review of the
rules and guidelines
prescribed in the release of
version 4.3 of the Function
Point Counting Practices
Manual (CPM). Providing a
fundamental understanding of
the IFPUG Functional Size
Measurement method, this is
the ideal study guide for th**
**The two volumes of this book
collect high-quality peer-
reviewed research papers
presented in the International
Conference on ICT for
Sustainable Development
(ICT4SD 2015) held at**

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**Ahmedabad, India during 3 - 4
July 2015. The book discusses
all areas of Information and
Communication Technologies
and its applications in field for
engineering and management.
The main focus of the volumes
are on applications of ICT for
Infrastructure, e-Governance,
and contemporary
technologies advancements on
Data Mining, Security,
Computer Graphics, etc. The
objective of this International
Conference is to provide an
opportunity for the
researchers, academicians,
industry persons and students
to interact and exchange ideas,
experience and expertise in the**

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**current trend and strategies
for Information and
Communication Technologies.**

**Third International
Conference, IC3 2010, Noida,
India, August 9-11, 2010.**

Proceedings

**COSMIC Function Points
Certified Function Point
Specialist Examination Guide
Software Sizing and Estimating
Software Engineering
Measurement Practices for
Successful Software Projects**

"A clearly written book that is a
useful primer for a very
complicated set of topics."

--Capers Jones, Chief Scientist
Emeritus, Software Productivity
Research LLC Practical Software

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Estimation brings together today's most valuable tips, techniques, and best practices for accurately estimating software project efforts, costs, and schedules. Written by a leading expert in the field, it addresses the full spectrum of real-world challenges faced by those who must develop reliable estimates. M. A. Parthasarathy draws on the immense experience of Infosys, one of the world's largest and most respected providers of IT-enabled business solutions, to bring you the only book with detailed guidance on estimating insourced and outsourced software projects, as well as projects that blend both approaches. He demonstrates how

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to successfully utilize Function Point (FP) methods, the industry's leading estimation model. Then, using real case studies, he systematically identifies pitfalls that can lead to inaccurate estimates--and offers proven solutions. Coverage includes How to estimate all types of software projects, including "fresh" development, reengineering, and maintenance How to incorporate the impact of core project elements on estimates: scope, environment, experience, and tools FP analysis from start to finish: data and transaction functions, general system characteristics, and more FP methods for any platform or

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business function Innovative re-
estimation methods to track
progress How to quote RFPs and
prepare contracts: fixed price,
time/material, and project
execution lifecycle models
Alternatives to FP: Delphi,
COCOMO II, and COSMIC-FFP How
to choose the right estimation
tools Practical Software Estimation
is the definitive reference for
anyone who must estimate
software projects accurately:
project and IT managers,
individual developers, system
designers, architects, executives,
consultants, and outsourcers alike.
List of Figures List of Tables
Foreword Preface
Acknowledgments Chapter 1:

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Introduction Chapter 2: Role of Estimation in Software Projects
Chapter 3: A Study of Function Point Analysis Chapter 4: Data Functions Chapter 5: Transactional Functions Chapter 6: General System Characteristics Chapter 7: Size, Effort, and Scheduling of Projects Chapter 8: Estimation Flavors Chapter 9: A Sense of Where You Are Chapter 10: Tips, Tricks, and Traps Chapter 11: Insourcing versus Outsourcing Chapter 12: Key Factors in Software Contracts Chapter 13: Project Estimation and Costing Chapter 14: Other Estimation Methods Chapter 15: Estimation Tools Chapter 16: Estimation Case Study Appendix A: Reference

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Tables: Transaction Function
Counts Appendix B: Reference
Tables: Data Function Points
Bibliography Index

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 nonpro

This volume contains 85 papers presented at CSI 2013: 48th Annual Convention of Computer Society of India with the theme "ICT and Critical Infrastructure".

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The convention was held during 13th -15th December 2013 at Hotel Novotel Varun Beach, Visakhapatnam and hosted by Computer Society of India, Vishakhapatnam Chapter in association with Vishakhapatnam Steel Plant, the flagship company of RINL, India. This volume contains papers mainly focused on Data Mining, Data Engineering and Image Processing, Software Engineering and Bio-Informatics, Network Security, Digital Forensics and Cyber Crime, Internet and Multimedia Applications and E-Governance Applications. The importance of benchmarking in the service sector is well recognized as it helps in

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continuous improvement in
products and work processes.
Through benchmarking,

companies have strived to
implement best practices in order
to remain competitive in the
product- market in which they
operate. However studies on
benchmarking, particularly in the
software development sector,
have neglected using multiple
variables and therefore have not
been as comprehensive.

Information Theory and Best
Practices in the IT Industry fills this
void by examining benchmarking
in the business of software
development and studying how it
is affected by development
process, application type,

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hardware platforms used, and many other variables. Information Theory and Best Practices in the IT Industry begins by examining practices of benchmarking productivity and critically appraises them. Next the book identifies different variables which affect productivity and variables that affect quality, developing useful equations that explaining their relationships. Finally these equations and findings are applied to case studies. Utilizing this book, practitioners can decide about what emphasis they should attach to different variables in their own companies, while seeking to optimize productivity and defect density.

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A Practical Approach

Based on ICB Version 4

Software Measurement

9th International Conference,

PROFES 2008, Monte Porzio

Catone, Italy, June 23-25, 2008,

Proceedings

Proceedings of CSI 2015

Practical Advice from the Experts

This book includes a set

of rigorously reviewed

world-class manuscripts

addressing and detailing

state-of-the-art

research projects in the

areas of Computer

Science, Computer

Engineering and

Information Sciences.

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The book presents selected papers from the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2006). All aspects of the conference were managed on-line.

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

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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

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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

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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

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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

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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

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

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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

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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

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Software Metrics and the
Canadian Interest Group
Technology
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

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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 development has been a troubling since it first started. There are seven chronic problems that have

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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

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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.

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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

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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

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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 development.

ICT4SD 2015 Volume 2
International
Conferences IWSM 2008,
Metrikon 2008, and
Mensura 2008 Munich,
Germany, November 18-19,
2008. Proceedings

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The Requirements
Engineering Handbook
Software Engineering and
Knowledge Engineering:
Theory and Practice
7th International
Conference, PROFES 2006,
Amsterdam, The
Netherlands, June 12-14,
2006, Proceedings
The IFPUG Guide to IT
and Software Measurement
/ MetriKon / Mensura Steering
Committee is proud to have—once
more—obtained the approval of
Springer to publish the second
edition of the joint conference
proceedings in the
prestigious Lecture Notes in
Computer Science (LNCS) series.

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We hope to maintain this collaboration for the future editions of these joint events.

CRM is an integrated information system that is used to plan, schedule and control the pre-sales and post-sales activities in an organization. This text is a manager's guide to making the most of CRM techniques for enhancing customer service, sales force effectiveness and marketing strategy.

This book constitutes the refereed proceedings of two joint events - the International Workshop on Software Measurement, IWSM 2009 and the International Conference on Software Process and Product Measurement, Mensura 2009, held in Amsterdam, The Netherlands, in November 2009. The 24 revised full

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papers presented were carefully reviewed and selected from numerous submissions for

inclusion in the book. This book considers issues such as the applicability of measures and metrics to software, the efficiency of measurement programs in industry and the theoretical foundations of software engineering.

"If you are looking for a complete treatment of business intelligence, then go no further than this book. Larissa T. Moss and Shaku Atre have covered all the bases in a cohesive and logical order, making it easy for the reader to follow their line of thought. From early design to ETL to physical database design, the book ties together all the components of business

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intelligence." --Bill Inmon, Inmon
Enterprises This is the eBook
version of the print title. The eBook
edition contains the same content
as the print edition. You will find
instructions in the last few pages of
your eBook that directs you to the
media files. Business Intelligence
Roadmap is a visual guide to
developing an effective business
intelligence (BI) decision-support
application. This book outlines a
methodology that takes into
account the complexity of
developing applications in an
integrated BI environment. The
authors walk readers through every
step of the process--from strategic
planning to the selection of new
technologies and the evaluation of
application releases. The book also
serves as a single-source guide to

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the best practices of BI projects. Part I steers readers through the six stages of a BI project: justification, planning, business analysis, design, construction, and deployment. Each chapter describes one of sixteen development steps and the major activities, deliverables, roles, and responsibilities. All technical material is clearly expressed in tables, graphs, and diagrams. Part II provides five matrices that serve as references for the development process charted in Part I. Management tools, such as graphs illustrating the timing and coordination of activities, are included throughout the book. The authors conclude by crystallizing their many years of experience in a list of dos, don'ts, tips, and rules of

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thumb. Both the book and the methodology it describes are designed to adapt to the specific needs of individual stakeholders and organizations. The book directs business representatives, business sponsors, project managers, and technicians to the chapters that address their distinct responsibilities. The framework of the book allows organizations to begin at any step and enables projects to be scheduled and managed in a variety of ways. Business Intelligence Roadmap is a clear and comprehensive guide to negotiating the complexities inherent in the development of valuable business intelligence decision-support applications. Applied Software Measurement Principles of the Business Rule

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Approach
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Software Development Patterns and
Antipatterns

The CRM Handbook

Product-Focused Software Process
Improvement

This book presents selected proceedings of the annual convention of the Computer Society of India. Divided into 10 topical volumes, the proceedings present papers on state-of-the-art research, surveys, and succinct reviews. They cover diverse topics ranging from communications networks to big data analytics, and from system architecture to cyber security. This book focuses on Software

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***Engineering, and informs
readers about the state of the art
in software engineering by
gathering high-quality papers
that represent the outcomes of
consolidated research and
innovations in Software
Engineering and related areas. In
addition to helping practitioners
and researchers understand the
chief issues involved in
designing, developing, evolving
and validating complex software
systems, it provides
comprehensive information on
developing professional careers
in Software Engineering. It also
provides insights into various
research issues such as
software reliability, verification***

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and validation, security and extensibility, as well as the latest concepts like component-based development, software process models, process-driven systems and human-computer collaborative systems. 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

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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

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**tomaster: * 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.

This volume constitutes the refereed proceedings of the Third International Conference on Contemporary Computing, IC3 2010, held in Noida, India, in

August 2010.

Drawing on best practices

identified at the Software Quality Institute and embodied in bodies of knowledge from the Project Management Institute, the American Society of Quality, IEEE, and the Software Engineering Institute, Quality Software Project Management teaches 34 critical skills that allow any manager to minimize costs, risks, and time-to-market. Written by leading practitioners Robert T. Futrell, Donald F. Shafer, and Linda I. Shafer, it addresses the entire project lifecycle, covering process, project, and people. It contains extensive practical resources-

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**including downloadable
checklists, templates, and forms.**

**Quality Software Project
Management**

**Global Analysis of Productivity
and Quality**

**ICT and Critical Infrastructure:
Proceedings of the 48th Annual
Convention of Computer Society
of India- Vol II**

**Current Trends in Research and
Practice**

IT Measurement

**20th International Conference,
PROFES 2019, Barcelona, Spain,
November 27–29, 2019,
Proceedings**

Function point counting is one
of the fastest growing software
management techniques used

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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.

The widespread deployment of millions of current and

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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

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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

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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. This book constitutes the refereed proceedings of the 20th International Conference

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on Product-Focused Software
Process Improvement, PROFES
2019, held in Barcelona, Spain,
in November 2019. The 24
revised full papers 4 industry
papers, and 11 short papers
presented were carefully
reviewed and selected from
104 submissions. The papers
cover a broad range of topics
related to professional
software development and
process improvement driven
by product and service quality
needs. They are organized in
topical sections on testing,
software development,
technical debt, estimations,
continuous delivery, agile,
project management,

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microservices, and continuous experimentation. This book

also includes papers from the co-located events: 10 project papers, 8 workshop papers, and 4 tutorial summaries.

Going where no book on software measurement and metrics has previously gone, this critique thoroughly examines a number of bad measurement practices, hazardous metrics, and huge gaps and omissions in the software literature that neglect important topics in measurement. The book covers the major gaps and omissions that need to be filled if data about software development is

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to be useful for comparisons or
estimating future projects.

Among the more serious gaps
are leaks in reporting about
software development efforts
that, if not corrected, can
distort data and make
benchmarks almost useless
and possibly even harmful.
One of the most common leaks
is that of unpaid overtime.
Software is a very labor-
intensive occupation, and
many practitioners work very
long hours. However, few
companies actually record
unpaid overtime. This means
that software effort is
underreported by around 15%,
which is too large a value to

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ignore. Other sources of leaks include the work of part-time specialists who come and go as needed. There are dozens of these specialists, and their combined effort can top 45% of total software effort on large projects. The book helps software project managers and developers uncover errors in measurements so they can develop meaningful benchmarks to estimate software development efforts. It examines variations in a number of areas that include:

- Programming languages
- Development methodology
- Software reuse
- Functional and nonfunctional requirements

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Industry type Team size and experience Filled with tables and charts, this book is a starting point for making measurements that reflect current software development practices and realities to arrive at meaningful benchmarks to guide successful software projects.

Mastering the Requirements
Process

Information Theory and Best
Practices in the IT Industry

A Business Guide to Customer
Relationship Management

International Conference,
IWSM-MENSURA 2007, Palma
de Mallorca, Spain, November
5-8, 2007, Revised Papers

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The Complete Project Lifecycle
for Decision-Support
Applications

Getting Requirements Right
Designed to conform to the ISO/IEC
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
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

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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

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XP methods Assess defect removal efficiency using unit tests and multistage test suites

This book constitutes the thoroughly refereed post-proceedings of the International Workshop on Software Measurement, IWSM-Mensura 2007, held in Palma de Mallorca, Spain, in November 2007. The 16 revised full papers presented were carefully reviewed and selected for inclusion in the book. The papers deal with aspects of software measurement like function-points measurement, effort and cost estimates, prediction, industrial experiences in software measurement, planning and implementing measurement, measurement-based software process improvement, best practices in software measurement,

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usability and user interaction measurement, measurement of open source projects, teaching and learning software measurement as well as new trends and ontologies for software measurement.

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-

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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.
Practical Software Estimation

The Power of IT

Function Point Methods for Insourced and Outsourced Projects

MK II FPA (Function Point Analysis)

Survival Guide for the CIO