
Function Point Analysis Measurement Practices For Successful Software Projects Information Technology

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**BRAY
NATHANIEL**

**Function
Point
Counting
Practices**

Springer
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 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

<p>that the results obtained are independent of the person applying the method; the result obtained is bona fide in 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.</p>	<p>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</p>	<p>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</p>
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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. *COSMIC Function Points* SAGE 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, 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. Definitions and counting guidelines for the application of Function Point Analysis American Mathematical Soc. This book constitutes the refereed proceedings of three joint events - the International Workshop on Software Measurement, IWSM 2008, the DASMA Metrik Kongress, Metrikon 2008, and the International Conference on Software Process and Product Measurement, Mensura 2008, held in Munich, Germany, in November 2008. The 30 revised full papers presented were carefully reviewed and selected from over 50 submissions for inclusion in the book. The papers are organized in topical sections on estimation models, measurement methodology, effort estimation, measurement programs, new approaches, prozessbewertung, size measurement,

education, measurement in software lifecycle, and product measurement. Function Point Analysis Nesma Get the most out of this foundational reference and improve the productivity of your software teams. This open access book collects the wisdom of the 2017 "Dagstuhl" seminar on productivity in software engineering, a meeting of community leaders, who came together with the goal of rethinking

traditional definitions and measures of productivity. The results of their work, Rethinking Productivity in Software Engineering, includes chapters covering definitions and core concepts related to productivity, guidelines for measuring productivity in specific contexts, best practices and pitfalls, and theories and open questions on productivity. You'll benefit from the many short chapters, each

offering a focused discussion on one aspect of productivity in software engineering. Readers in many fields and industries will benefit from their collected work. Developers wanting to improve their personal productivity, will learn effective strategies for overcoming common issues that interfere with progress. Organizations thinking about building internal programs for

measuring productivity of programmers and teams will learn best practices from industry and researchers in measuring productivity. And researchers can leverage the conceptual frameworks and rich body of literature in the book to effectively pursue new research directions. What You'll Learn Review the definitions and dimensions of software productivity See how time management	is having the opposite of the intended effect Develop valuable dashboards Understand the impact of sensors on productivity Avoid software development waste Work with human-centered methods to measure productivity Look at the intersection of neuroscience and productivity Manage interruptions and context-switching Who Book Is For Industry developers and those	responsible for seminar-style courses that include a segment on software developer productivity. Chapters are written for a generalist audience, without excessive use of technical terminology. <i>An Introduction to Measure Theory</i> Springer Poor quality continues to bedevil large-scale development projects, but few software leaders and practitioners know how to measure
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quality, select quality best practices, or cost-justify their usage. In The Economics of Software Quality, leading software quality experts Capers Jones and Jitendra Subramanyam show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value. Using empirical data from hundreds of software organizations,	Jones and Subramanyam show how integrated inspection, static analysis, and testing can achieve defect removal rates exceeding 95 percent. They offer innovative guidance for predicting and measuring defects and quality; choosing defect prevention, pre-test defect removal, and testing methods; and optimizing post-release defect reporting and repair. This book will help	you Prove that improved software quality translates into strongly positive ROI and greatly reduced TCO Drive better results from current investments in debugging and prevention Use quality techniques to stay on schedule and on budget Avoid "hazardous" metrics that lead to poor decisions Important note: The audio and video content included with this enhanced
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eBook can be viewed only using iBooks on an iPad, iPhone, or iPod touch.

Software Engineering
Addison-Wesley

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 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 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.

Applied Software Measurement

CRC Press 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 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.

Certified Function Point Specialist Examination Guide

John Wiley & Sons Volume 1.1 of the premiere study guide containing case studies and questions featured on the www.qualityplustech.com website Function Point Analysis Counting Question of the Week (QOW). First in the series with all new

questions, answers, explanations and featuring CFPS exam tips.

Software Complexity

Springer Science & Business Media
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 *Functional Verification Coverage Measurement and Analysis* Springer Science & Business Media
“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 example, 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
used as a
manual and
an assistant
for everyday
work.
*Software
Metrics and
Software
Metrology*
Apress
Effectively
forecast,
manage, and
control

software across the entire project lifecycle. Accurately size, estimate, and administer software projects with real-world guidance from an industry expert. Fully updated to cover the latest tools and techniques, Applied Software Measurement, Third Edition details how to deploy a cost-effective and pragmatic analysis strategy. You will learn how to use function

points and baselines, implement benchmarks and tracking systems, and perform efficiency tests. Full coverage of the latest regulations, metrics, and standards is included. Measure performance at the requirements, coding, testing, and installation phases. Set function points for efficiency, cost, market share, and customer satisfaction. Analyze quality and

productivity using assessments, benchmarks, and baselines. Design and manage project cost, defect, and quality tracking systems. Use object-oriented, reusable component, Agile, CMM, and XP methods. Assess defect removal efficiency using unit tests and multistage test suites. **Function Point Counting Practices Manual 4. 2**
J. Ross

Publishing
Volume 3.0 of
the premiere
study guide
containing
case studies
and questions
featured on
the
www.qualitypl
ustech.com
website
Function Point
Analysis
Counting
Question of
the Week
(QOW). All
new
questions,
answers,
explanations
and featuring
how to count
enhancement
projects.
**Function
Point
Analysis**
Springer
Science &
Business

Media
Almost every
software
project begins
with the
utterances,
“What will this
cost?” and
“When will
this project be
done?” Once
those words
are spoken,
project
stakeholders
begin to
wrestle with
how to
produce an
estimate.
Accurately
estimating the
cost or time to
complete a
software
project is a
serious
problem for
many
software
engineers,
developers

and project
managers who
struggle with
costs running
double
original
estimates,
putting their
careers at
risk. It is
reported that
nearly 50% of
all software
projects are
shelved and
that one of
the major
causes is poor
estimation
practices. If
developing
software for
internal use,
poor
estimates can
represent a
significant
drain on
corporate
profits.
Worldwide
growth in the

number of companies specializing in the development of software for use by other companies is staggering. India alone has nearly 20,000 such companies. Intense competition has led to an increased demand for fixed-bid pricing in client/vendor relationships, and has made effective cost estimation even more important and, in many cases, critical to a firm's survival. There are many

methods of estimation. Each method has its strengths and weaknesses, proponents and opponents. Knowing how and which one to use on a given project is key to developing acceptable estimates for either internal or external projects. Software Estimation Best Practices, Tools, & Techniques covers all facets of software estimation. It provides a detailed explanation of the various

methods for estimating software size, development effort, cost, and schedule, including a comprehensive explanation of Test Effort Estimation. Emphasizing that software estimation should be based on a well-defined process, it presents software estimation best practices and shows how to avoid common pitfalls. This guide offers direction on which methods are most appropriate

for each of the different project types commonly executed in the software development space and criteria for selecting software estimation tools. This comprehensive desk reference explains software estimation from scratch to help the beginner and advanced techniques for more experienced estimators. It details project scheduling, including resource

leveling and the concept of productivity, as applicable to software estimators, demonstrating the many benefits of moving from the current macro-productivity approach to a micro-productivity approach in software estimation. Software Estimation Best Practices, Tools, & Techniques: A Complete Guide for Software Project Estimators caters to the needs of all software

project stakeholders, from novice to expert. It provides the valuable guidance needed to estimate the cost and time required to complete software projects within a reasonable margin of error for effective software development. Measurement Error and Research Design Springer 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

Certified Function Point Specialist Examination Guide John Wiley & Sons
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

Software Process and

Product Measurement CRC Press
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

**Rethinking
Productivity
in Software
Engineering**

CRC Press
Function Point
Analysis:
Measurement
Practices for
Successful
Software
Projects is a
comprehensiv
e 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

<p>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-based, client-server, and GUI applications Becoming a Certified Function Point Specialist (CFPS), using a practice</p>	<p>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 benchmarking data Numerous detailed examples and case studies</p>	<p>demonstrate the FPA methodology in action. As a reference, tutorial, and practical guide, <i>Function Point Analysis: Measurement Practices for Successful Software Projects</i> raises the level of awareness and understanding of FPA and its role in bringing proven quality standards to the software development industry. 0201699443B 04062001 <i>Definitions and counting guidelines for</i></p>
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the application of function point analysis (FPA)
NESMA Functional Size Measurement method conform ISO/IEC 24570

CRC Press
No detailed description available for "Software Complexity".

The IT Measurement Compendium

CRC Press
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. 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.

Software Process and

Product Measurement

NESMA Measurement Data Modeling and Parameter Estimation integrates mathematical theory with engineering practice in the field of measurement data processing. Presenting the first-hand insights and experiences of the authors and their research group, it summarizes cutting-edge research to facilitate the application of mathematical theory in measurement

and control engineering, particularly for those interested in aeronautics, astronautics, instrumentation, and economics. Requiring a basic knowledge of linear algebra, computing, and probability and statistics, the book illustrates key lessons with tables, examples, and exercises. It emphasizes the mathematical processing methods of measurement data and avoids the

derivation procedures of specific formulas to help readers grasp key points quickly and easily. Employing the theories and methods of parameter estimation as the fundamental analysis tool, this reference: Introduces the basic concepts of measurement s and errors Applies ideas from mathematical branches, such as numerical analysis and statistics, to the modeling and

processing of measurement data Examines methods of regression analysis that are closely related to the mathematical processing of dynamic measurement data Covers Kalman filtering with colored noises and its applications Converting time series models into problems of parameter estimation, the authors discuss modeling methods for the true signals to be estimated as well as

systematic errors. They provide comprehensive coverage that includes model establishment, parameter estimation, abnormal data detection, hypothesis tests,

systematic errors, trajectory parameters, and modeling of radar measurement data. Although the book is based on the authors' research and teaching experience in aeronautics

and astronautics data processing, the theories and methods introduced are applicable to processing dynamic measurement data across a wide range of fields.