
Function Point Analysis Measurement Practices For Successful Software Projects Information Technology

Function Point Methods for Insourced and
Outsourced Projects
Applied Software Measurement
The Economics of Software Quality
Mastering the Requirements Process
Software Process and Product Measurement
Survival Guide for the CIO
Software Development Patterns and Antipatterns
Hosted by CSI Vishakapatnam Chapter
Principles of the Business Rule Approach
Theory and Practice
International Conferences IWSM 2008, Metrikon
2008, and Mensura 2008 Munich, Germany,
November 18-19, 2008. Proceedings
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Mensura 2009 Amsterdam, The Netherlands,
November 4-6, 2009. Proceedings
Measurement Practices for Successful Software
Projects
Certified Function Point Specialist Examination
Guide
COSMIC Function Points
Proceedings of the 31st Annual ACM Symposium
on Applied Computing
International Conference, IWSM-MENSURA 2007,
Palma de Mallorca, Spain, November 5-8, 2007,
Revised Papers
Software Engineering and Knowledge
Engineering: Theory and Practice
Software Project Effort Estimation
Software Measurement and Estimation
Better Practices of Project Management Based on
IPMA competences - 4th revised edition
Certified Function Point Specialist Examination
Guide
IT Measurement
Statistics in a Nutshell
ICT4SD 2015 Volume 2
Global and Industry Perspectives
Proceedings of International Conference on ICT
for Sustainable Development
Global Analysis of Productivity and Quality
Function Point Analysis (FPA) for Software
Enhancement
9th International Conference, PROFES 2008,
Monte Porzio Catone, Italy, June 23-25, 2008,
Proceedings

Software Sizing and Estimating
Quantifying Software
Best Practices in Software Measurement
Product-Focused Software Process Improvement
Quality Software Project Management
The IFPUG Guide to IT and Software Measurement
Third International Conference, IC3 2010, Noida,
India, August 9-11, 2010. Proceedings
A Business Guide to Customer Relationship
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Practical Software Estimation
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Function Point Methods for Insourced and Outsourced Projects

The Power of IT
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 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 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.
•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

Applied Software Measurement
Springer

Science & Business Media
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 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.
The Economics of Software Quality CRC Press
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 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 current

trend and strategies for Information and Communication Technologies. **Mastering the Requirement's Process** McGraw Hill Professional 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 -

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 software process improvement (SPI) motivated by product and service quality needs. Focussing on a product to be developed, PROFES 2008 addressed both quality engineering

and management topics including processes, methods, techniques, tools, organizations, and enabling SPI. Both solutions found in practice and the relevant research results from academia were 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. - ile development

was included again as one of the 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.

Software Process and

Product Measurement
Springer
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- including downloadable checklists, templates, and forms.
Survival Guide for the CIO
Pearson Education

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 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 to master: * 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. [Software Development Patterns and Antipatterns](#) CRC Press 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.

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accurate,
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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.
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Principles of the Business Rule Approach
Cambridge University Press
This volume contains 85

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

<p>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.</p> <p>Theory and Practice Addison-Wesley Professional Annotation</p>	<p>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,</p>	<p>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</p>
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software measurement. <u>International Conferences IWSM 2008, Metrikon 2008, and Mensura 2008 Munich, Germany, November 18-19, 2008. Proceedings</u> Springer Nature 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-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. <i>International Conferences IWSM 2009 and Mensura 2009 Amsterdam, The Netherlands, November 4-6, 2009. Proceedings</i> Springer Science & Business Media
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<p>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</p>	<p>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. <i>Measurement Practices for Successful Software Projects</i> Elsevier This present volume describes some of the latest advances in the computer</p>	<p>science field today. This current volume emphasizes information processing with chapters on artificial intelligence, data bases and software 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</p>
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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? *

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Function Point Specialist Examination Guide
Springer Science & Business Media
Function Point Analysis Measurement Practices for Successful Software Projects Addison-Wesley Professional
COSMIC Function Points CRC Press
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 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 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 any 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.

Proceedings of the 31st Annual ACM Symposium on Applied Computing
CRC Press
Software is one of the most important products in human history and is widely used by all industries and all countries. It is also one of the most expensive and

labor-intensive products in human history. Software also has very poor quality that has caused many major disasters and wasted many millions of dollars. Software is also the target of frequent and increasingly serious cyber-attacks. Among the reasons for these software problems is a chronic lack of reliable quantified data. This reference provides quantified

data from many countries and many industries based on about 26,000 projects developed using a variety of methodologies and team experience levels. The data has been gathered between 1970 and 2017, so interesting historical trends are available. Since current average software productivity and quality results are suboptimal, this book focuses on

"best in class" results and shows not only quantified quality and productivity data from best-in-class organizations, but also the technology stacks used to achieve best-in-class results. The overall goal of this book is to encourage the adoption of best-in-class software metrics and best-in-class technology stacks. It does so by providing current data on average software schedules,

effort, costs, and quality for several industries and countries. Because productivity and quality vary by technology and size, the book presents quantitative results for applications between 100 function points and 100,000 function points. It shows quality results using defect potential and DRE metrics because the number one cost driver for software is finding and fixing bugs.

The book presents data on cost of quality for software projects and discusses technical debt, but that metric is not standardized. Finally, the book includes some data on three years of software maintenance and enhancements as well as some data on total cost of ownership. *International Conference, IWSM-MENSU RA 2007, Palma de Mallorca, Spain, November 5-8, 2007,*

Revised Papers
Springer
Science & Business Media
Software effort estimation is one of the oldest and most important problems in software project management, and thus today there are a large number of models, each with its own unique strengths and weaknesses in general, and even more importantly, in relation to the environment and context in

which it is to be applied. Trendowicz and Jeffery present a comprehensive look at the principles of software effort estimation and support software practitioners in systematically selecting and applying the most suitable effort estimation approach. Their book not only presents what approach to take and how to apply and improve it, but also explains why certain approaches should be

used in specific project situations. Moreover, it explains popular estimation methods, summarizes estimation best-practices, and provides guidelines for continuously improving estimation capability. Additionally, the book offers invaluable insights into project management in general, discussing issues including project trade-offs, risk assessment,

and organizational learning. Overall, the authors deliver an essential reference work for software practitioners responsible for software effort estimation and planning in their daily work and who want to improve their estimation skills. At the same time, for lecturers and students the book can serve as the basis of a course in software processes, software estimation, or

project management.

Software Engineering and Knowledge Engineering: Theory and Practice

Addison-Wesley
A clear and concise introduction and reference for anyone new to the subject of statistics.

Software Project Effort Estimation

Prentice Hall Professional
This volume constitutes the refereed proceedings of the Third International Conference on Contemporary

Computing, IC3 2010, held in Noida, India, in August 2010.

Software Measurement and Estimation

Addison-Wesley Professional
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

<p>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 that two different people using the same guidelines obtain the same result. The method is</p>	<p>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</p>	<p>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</p>
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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.
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