

Function Point Analysis

Functional Data Analysis with R and

MATLAB James Ramsay 2009-06-29 The book provides an application-oriented overview of functional analysis, with extended and accessible presentations of key concepts such as spline basis functions, data smoothing, curve registration, functional linear models and dynamic systems Functional data analysis is put to work in a wide a range of applications, so that new problems are likely to find close analogues in this book The code in R and Matlab in the book has been designed to permit easy modification to adapt to new data structures and research problems

Innovations and Advanced Techniques in Computer and Information Sciences and

Engineering Tarek Sobh 2007-09-04 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.

IT Measurement International Function Point Users Group 2002 With Contributions by Capers Jones, Howard Rubin, David Garmus, Lawrence Putnam, and Elizabeth Clark The accurate, quantitative measurement of software quality and process performance is rapidly becoming an essential part of competition in the ever-tightening software marketplace. Software

metrics provide insights into productivity and quality gains from improvements in skill, technology, and development methodology. An effective metrics program helps practitioners assemble the best team, select the optimal development methodology, and enhance the quality of a software product. In short, metrics enable software developers to pursue proven, successful strategies, and to change course when metrics point to less-than-optimum quality or productivity. Written by the world's leading authorities in the field, IT Measurement showcases state-of-the-art in software metrics and provides the practical knowledge that practitioners need in order to take full advantage of software metrics technology. The book's collected articles offer important perspectives on the role of metrics in the development process, and show how metrics directly enhance software quality and output efficiency. The book explores several vital areas, including Function Point Analysis, project

estimation and management, outsourcing, statistical process control, and more. These articles range from basic theory to the sophisticated application of metrics. Specific topics covered include: The expanding role of function point metrics Work output measurement for IT work units The use of metrics for tracking Enhanced estimation with metrics Metrics in outsourcing Standardization of SLOC The application of SPC to performance management Functional metrics in B2B e-commerce project success Enlightening and pragmatic, IT Measurement will help you gain a deeper understanding of software metrics and the ability to apply concrete measures in order to objectively evaluate and more finely shape your software development program.

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Software Measurement Reiner Dumke
2013-11-11 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 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 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 Software Metrics and the Canadian Interest Group 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 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.

Enterprise Information Systems Joaquim Filipe
2020-02-19 This book constitutes extended, revised and selected papers from the 21st International Conference on Enterprise Information Systems, ICEIS 2019, held in Heraklion, Crete, Greece, in May 2019. The 26 papers presented in this volume were carefully reviewed and selected for inclusion in this book

from a total of 205 submissions. They deal with topics such as data science and databases; ontologies; social networks; knowledge management; software development; human-computer interaction, and multimedia.

What's the Point of Knowledge? Michael Hannon 2019 This book is about knowledge and its value. At its heart is a straightforward idea: we can answer many interesting and difficult questions in epistemology by reflecting on the role of epistemic evaluation in human life. Michael Hannon calls this approach function-first epistemology. To Hannon, the concept of knowledge is used to identify reliable informants; this practice is necessary, or at least deeply important, because it plays a vital role in human survival, cooperation, and flourishing. Though a seemingly simple idea, function-first epistemology has wide-reaching implications. From this premise, Hannon casts new light on the very nature and value of knowledge, the differences between knowledge and

understanding, the relationship between knowledge, assertion, and practical reasoning, and the semantics of knowledge claims. This book forges new paths into some classic philosophical puzzles, including the Gettier problem, epistemic relativism, and philosophical skepticism. What's the Point of Knowledge? shows that pivotal issues in epistemology can be resolved by taking a function-first approach, demonstrating the significant role that this method can play in contemporary philosophy. Estimation of Software Metrics Using Function Point Analysis Varun Barthwal 2013 Unified modelling language (UML) can be used to implement an object oriented software system, how to map this UML to function point analysis various approaches are suggested by software practitioners, we have used UML diagrams to map UML to function point analysis. Various rules were proposed earlier, these rules can be applied on UML to estimate function points. We have used UML class diagram for data function

analysis and UML sequence diagram for transaction function analysis than we have applied transformation rules and guidelines to estimates function point. We have developed a tool based estimation technique for object oriented software metrics which extracts required information from UML diagrams and its logical view report to estimate size of software then using COCOMO II rest of the software metrics are calculated e.g. effort, development time, productivity and cost.

Inference for Functional Data with Applications

Lajos Horváth 2012-05-08 This book presents recently developed statistical methods and theory required for the application of the tools of functional data analysis to problems arising in geosciences, finance, economics and biology. It is concerned with inference based on second order statistics, especially those related to the functional principal component analysis. While it covers inference for independent and identically distributed functional data, its distinguishing

feature is an in depth coverage of dependent functional data structures, including functional time series and spatially indexed functions. Specific inferential problems studied include two sample inference, change point analysis, tests for dependence in data and model residuals and functional prediction. All procedures are described algorithmically, illustrated on simulated and real data sets, and supported by a complete asymptotic theory. The book can be read at two levels. Readers interested primarily in methodology will find detailed descriptions of the methods and examples of their application. Researchers interested also in mathematical foundations will find carefully developed theory. The organization of the chapters makes it easy for the reader to choose an appropriate focus. The book introduces the requisite, and frequently used, Hilbert space formalism in a systematic manner. This will be useful to graduate or advanced undergraduate students seeking a self-contained introduction to the

subject. Advanced researchers will find novel asymptotic arguments.

Function Point Counting Practices Manual

International Function Point Users Group
1999-01 Overview of function point analysis;
User view; Determine type of count; Identify counting scope and application boundary; Count data functions; Count transactional functions; Determine value adjustment factor; Calculate adjusted function point count.

International Conference on Advanced Computing Networking and Informatics Raj Kamal 2018-11-27 The book comprises selected papers presented at the International Conference on Advanced Computing, Networking and Informatics (ICANI 2018), organized by Medi-Caps University, India. It includes novel and original research work on advanced computing, networking and informatics, and discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques in the

field of computing and networking.

Function Point Analysis J. Brian Dreger 1989
Function Point Analysis A Complete Guide - 2020 Edition Gerardus Blokdyk 2020-02-02 How do you keep records, of what? Do the benefits outweigh the costs? How does your organization evaluate strategic Function Point Analysis success? How risky is your organization? What causes investor action? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?'

This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Function Point Analysis investments work better. This Function Point Analysis All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Function Point Analysis Self-Assessment. Featuring 933 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Function Point Analysis improvements can be made. In using the questions you will be better able to: - diagnose Function Point Analysis projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Function Point Analysis and

process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Function Point Analysis Scorecard, you will develop a clear picture of which Function Point Analysis areas need attention. Your purchase includes access details to the Function Point Analysis self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Function Point Analysis Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every

self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

Software Estimation Best Practices, Tools & Techniques Murali Chemuturi 2009-07-15

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 features 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.

The Economics of Software Quality Capers Jones 2012 Poor quality continues to bedevil large-scale development projects, but few software leaders and practitioners know how to measure 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 eBook can be viewed only using iBooks on an iPad, iPhone, or iPod touch.

Measuring the Software Process David Garmus 1996 Function point counting is one of the fastest growing software management techniques used 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.

Function Point Analysis David Garmus 2001 *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-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 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.

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The application of Function Point Analysis (FPA) in the early phases of the application life cycle A Practical Manual: Theory and case study

Paul Peeters, Jaap van Asperen, Martin Jacobs, Hans Vonk, and others

Variational Analysis

R. Tyrrell Rockafellar
2009-06-26 From its origins in the minimization of integral functionals, the notion of variations has evolved greatly in connection with applications in optimization, equilibrium, and control. This book develops a unified framework and provides a detailed exposition of variational geometry and subdifferential calculus in their

current forms beyond classical and convex analysis. Also covered are set-convergence, set-valued mappings, epi-convergence, duality, and normal integrands.

Software Engineering Laxmidhar Vinayakrao Gaopande 2020-05-25 Software Engineering A Practical Approach By Laxmidhar V. Gaopande In this book the author has covered almost all the topics in software engineering which includes types of software projects, their execution models, software development life cycles (SDLC), different development models like Waterfall, Iterative, Incremental, Spiral, Agile and Test Driven Development (TDD). He has covered in depth software requirements including business requirement documents (BRD), functional requirement documents (FRD), software requirement specifications (SRS), what makes a good specifications, software analysis, design and architecture covering structured system analysis and design method (SSADM), object oriented analysis and design (OOAD)

methodology, unified modelling language (UML) and UML diagrams, design patterns, software architecture types like layered, microservices, serverless, even driven architecture. Usability and user experience (UX) chapter covers all important aspects of usability engineering and steps in usability. Chapters on quality and quality systems describe attributes of quality and quality systems like ISO 9001, SEI CMMI. Software testing chapter covers details of software testing, types of testing, testing models etc. Details of configuration management, release management, risk management, software support, project management and methodologies are covered in detail. Details on what makes a good project manager and project management organization are also covered in detail. Chapter on software estimation is very detailed and covers various estimation techniques, like Agile estimation, class based simplified estimation for OOAD systems, function point analysis, Mark II, COCOMO etc.

Templates for various artifacts are also listed and will be useful for the software engineering work. The book covers five interesting case studies and learnings from them from author own practical experience while executing software projects and product development. The author has also given interesting eighteen exercises for developing a new software system covering all the topics in software engineering. Lot of useful data is also shared which will be very useful for students, teachers and practitioner.

The Bellman Function Technique in Harmonic Analysis Vasily Vasyunin 2020-08-06

A comprehensive reference on the Bellman function method and its applications to various topics in probability and harmonic analysis.

Value Management of Construction Projects

John Kelly 2014-11-17 Value Management is a philosophy, set of principles and a structured management methodology for improving organisational decision-making and value-for-

money. The second edition builds on the success of the first edition by extending the integrated value philosophy, methodology and tool kit to describe the application of Value Management to the areas of service delivery, asset management, and, Programmes, in addition to Projects, products and processes. Value Management is a well-established methodology in the international construction industry, and in the UK has been endorsed as good practice in a range of government sponsored reports. In this book the authors have addressed the practical opportunities and difficulties of Value Management by synthesising the background, international developments, benchmarking and their own extensive consultancy and action research experience in Value Management to provide a comprehensive package of theory and practice. The second edition retains the structure of the first edition, covering methods and practices, frameworks of value and the future of value management. It has been

thoroughly updated, and a number of new chapters added to encapsulate further extensions to current theory and practice. In particular, the new edition responds to: A range of recent UK industry and government publications; and most notably BS EN 16271:2012 - Value management: Functional expression of the need and functional performance specification; the imminent update of BS EN 12973:2000 Value Management; BS EN 1325 Value Management -- Vocabulary, Terms and definitions; the changes to "Value for Europe" governing the training and certification of Value Management in European Union countries; the UK Government's Management of Value (MoV) initiative, together with other leading reports, international guidance and standards on Value Management. Research in Value Management undertaken since publication of the first edition. Changes in Value Management practice particularly in Programmes and Projects. Developments in the

theory of value, principally value for money measures, whole life value option appraisal, and benefits realisation. Initiatives in asset management initiatives covering the management of physical infrastructure, for example the recent launch of a suite of three standards under the generic title of BS ISO 55000: 2014 Asset Management, and its predecessor BSI PAS55 2008 "Asset Management: Specification For The Optimized Management Of Physical Assets" The second edition contains a dedicated chapter of exemplar case studies drawn from the authors' experience, selected to demonstrate the new areas of theory and practice. An Appendix includes an extensive set of tools and techniques of use in Value Management practice. Construction clients, including those in both the public and private sectors, and professionals such as construction cost consultants, quantity surveyors, architects, asset managers, construction engineers, and construction

managers will all find Value Management of Construction Projects to be essential reading. It will also be of interest to researchers and students on construction related courses in Higher Education -- particularly those at final year undergraduate and at Masters level.

Applied Functional Data Analysis J.O. Ramsay 2007-11-23 This book contains the ideas of functional data analysis by a number of case studies. The case studies are accessible to research workers in a wide range of disciplines. Every reader should gain not only a specific understanding of the methods of functional data analysis, but more importantly a general insight into the underlying patterns of thought. There is an associated web site with MATLABr and S?PLUSr implementations of the methods discussed.

Nineteen Eighty-Four George Orwell 2021-01-09 "Nineteen Eighty-Four: A Novel", often published as "1984", is a dystopian social science fiction novel by English novelist George

Orwell. It was published on 8 June 1949 by Secker & Warburg as Orwell's ninth and final book completed in his lifetime. Thematically, "Nineteen Eighty-Four" centres on the consequences of totalitarianism, mass surveillance, and repressive regimentation of persons and behaviours within society. Orwell, himself a democratic socialist, modelled the authoritarian government in the novel after Stalinist Russia. More broadly, the novel examines the role of truth and facts within politics and the ways in which they are manipulated. The story takes place in an imagined future, the year 1984, when much of the world has fallen victim to perpetual war, omnipresent government surveillance, historical negationism, and propaganda. Great Britain, known as Airstrip One, has become a province of a totalitarian superstate named Oceania that is ruled by the Party who employ the Thought Police to persecute individuality and independent thinking. Big Brother, the leader of

the Party, enjoys an intense cult of personality despite the fact that he may not even exist. The protagonist, Winston Smith, is a diligent and skillful rank-and-file worker and Outer Party member who secretly hates the Party and dreams of rebellion. He enters into a forbidden relationship with a colleague, Julia, and starts to remember what life was like before the Party came to power.

Progressive Function Point Analysis MR Ruben Gerad Mathew 2014-09-10 Progressive function points was derived for greater accuracy in the estimation of Function Point Analysis which is used for size estimation of IT Projects. The new improvements are based on the actual Function point count based on elementary inputs, outputs and integrated process flows within the respective functions. Progressive function points are better suited for application that may have the following characteristics Projects with complex business rules and multiple workflows. Complex operations other

than standard CRUD functionality. Integration of Reuse within functions. Greater Accuracy of Cost & Schedule Index. Greater Clarity and Accountability into costing of applications. Passing external reviews such as CPMG Audits. Integration of new languages and programming tools. Progressive Function Point Analysis was developed for mitigating problems in the implementation of FPA in agile projects. The estimation principle addresses the concerns with regard to effort and accurate sizing in projects. These ideas were implemented through various tools and an open source worksheet was built on the new principles to address many concerns such as Accuracy, Reuse, Workflow Estimation. Some practice specific enhancements and applications have also been discussed where the standard model is not applicable. This book is focused on training Architects and Project Managers in Progressive Estimation technique, for seasoned FPA Analyst, we provide new tools and methods to estimate the effort and

revalidate their current estimates by using our free and open source tools, which also provides both cost and schedule index and advanced customizable workbooks . By providing Progressive FPA estimates, the cost and effort are justified and can be validated against the actual work.

Applied Software Measurement Capers Jones 2008-05-11 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 Theory of Several Complex

Variables Steven George Krantz 2001

Emphasizing integral formulas, the geometric theory of pseudoconvexity, estimates, partial differential equations, approximation theory, inner functions, invariant metrics, and mapping theory, this title is intended for the student with a background in real and complex variable theory, harmonic analysis, and differential equations.

Definitions and counting guidelines for the application of function point analysis (FPA)
NESMA Functional Size Measurement

method conform ISO/IEC 24570 Adri Timp, Jolijn Onvlee, Maarten Barth, Jan Volkert Dam, Eddy van Vliet, and others
Certified Function Point Specialist Examination Guide David Garmus 2011-06-03 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 the CFPS examination. The text: Includes time-tested tips on how to best prepare for the exam Provides a series of questions and answers at the end of each chapter with specific references to the latest version of the CPM Contains two CFPS practice exams to measure understanding and identify areas where more study is needed Active members of the Counting Practices Committee and a past president of the IFPUG supply time-

tested insight on how to use the CPM manual effectively and efficiently during the exam. The two sample exams and detailed examples throughout the text help to ensure readers develop the comprehension required to attain certification the first time around. Following certification, this book is a valuable reference for applying the IFPUG method for sizing proficient software design, development, and deployment. Praise for the book: While there are a number of solid books on counting function points, this new book fills a gap in the function point literature by providing useful information on the specifics of becoming a certified function point counter. The authors are all qualified for the work at hand, and indeed have contributed to the function point counting methodology. —Capers Jones, President, Capers Jones & Associates LLC

Function Point Counting and IFPUG Certified Function Point Specialist Study Guide Quality Plus Technologies, Incorporated

2003-01-01 Volume 3.0 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). All new questions, answers, explanations and featuring how to count enhancement projects.

Software Engineering and Algorithms Radek Silhavy 2021-07-19 This book constitutes the refereed proceedings of the Software Engineering and Algorithms section of the 10th Computer Science On-line Conference 2021 (CSOC 2021), held on-line in April 2021. Software engineering research and its applications to intelligent algorithms take an essential role in computer science research. In this book, modern research methods, application of machine and statistical learning in the software engineering research are presented.
Function Point Counting and IFPUG Certified Function Point Specialist Study Guide Quality Plus Technologies, Incorporated

2001 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.

Rethinking Productivity in Software Engineering Caitlin Sadowski 2019-05-07 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.

Software Engineering Application in Informatics

Radek Silhavy 2021-11-16 This book constitutes the first part of refereed proceedings of the 5th Computational Methods in Systems and Software 2021 (CoMeSySo 2021). The CoMeSySo 2021 Conference is breaking the barriers, being held online. CoMeSySo 2021 intends to provide an international forum for the discussion of the latest high-quality research results. The software engineering, computer science, and artificial intelligence are crucial topics for the research within an intelligent

systems problem domain.

Practical Software Estimation M. A.

Parthasarathy 2003-02-25 "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 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 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 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.
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**Definitions and counting guidelines for the
 application of Function Point Analysis** Frank

Vogelezang
Genetic and Evolutionary Computing Jeng-
 Shyang Pan 2020-03-12 This book gathers
 papers presented at the 13th International
 Conference on Genetic and Evolutionary
 Computing (ICGEC 2019), which was held in
 Qingdao, China, from 1st to 3rd, November
 2019. Since it was established, in 2006, the
 ICGEC conference series has been devoted to
 new approaches with a focus on evolutionary
 computing. Today, it is a forum for the
 researchers and professionals in all areas of
 computational intelligence including
 evolutionary computing, machine learning, soft
 computing, data mining, multimedia and signal
 processing, swarm intelligence and security. The
 book appeals to policymakers, academics,
 educators, researchers in pedagogy and learning
 theory, school teachers, and other professionals
 in the learning industry, and further and
 continuing education.

COSMIC Function Points Reiner Dumke

2016-04-19 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 *Function Point Analysis (FPA) for Software Enhancement* Jos Engelhart, Peter Langbroek, and others 2009-04-07 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 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.

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.

The IFPUG Guide to IT and Software

Measurement IFPUG 2012-04-25 The widespread deployment of millions of current and emerging software applications has placed software economic studies among the most critical of any form of business analysis.

Unfortunately, a lack of an integrated suite of metrics makes software economic analysis extremely difficult. The International Function Point Users Group (IFPUG), a nonpro Software Sizing and Estimating Charles R.

Symons 1991-07-08 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.

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