

Software Cost Estimation and Sizing Methods

Issues and Guidelines

Shari Lawrence Pfleeger, Felicia Wu, Rosalind Lewis



PROJECT AIR FORCE

Software Cost Estimation And Sizing Methods Issues And Guidelines

**Beniamino Murgante, Sanjay Misra, Ana
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Apduhan, Osvaldo Gervasi**

Software Cost Estimation And Sizing Methods Issues And Guidelines:

Software Cost Estimation and Sizing Methods Shari Lawrence Pfleeger, Felicia Wu, Rosalind Lewis, 2005 Recommends an approach to improving the utility and accuracy of software cost estimates by exposing uncertainty in understanding the project and reducing the risks associated with developing the estimates The approach focuses on characteristics of the estimation process such as which methods and models are most appropriate for a given situation and the nature of the data used such as software size describing symptoms and warning signs of risk in each factor and risk mitigation strategies

Software Process and Product Measurement Juan J. Cuadrado-Gallego, René Braungarten, Reiner R. Dumke, Alain Abran, 2008-08-19 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

Software Process and Product Measurement Alain Abran, René Braungarten, Reiner R. Dumke, Juan J. Cuadrado-Gallego, Jacob Brunekreef, 2009-11-09 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

What Should the Department of Defense's Role in Cyber Be? United States. Congress. House. Committee on Armed Services. Subcommittee on Emerging Threats and Capabilities, 2011

Computational Science and Its Applications - ICCSA 2014 Beniamino Murgante, Sanjay Misra, Ana Maria Alves Coutinho Rocha, Carmelo Torre, Jorge Gustavo Rocha, Maria Irene Falcão, David Taniar, Bernady O. Apduhan, Osvaldo Gervasi, 2014-07-02 The six volume set LNCS 8579 8584 constitutes the refereed proceedings of the 14th International Conference on Computational Science and Its Applications ICCSA 2014 held in Guimar es Portugal in June July 2014 The 347 revised papers presented in 30 workshops and a special track were carefully reviewed and selected from 1167 The 289 papers presented in the workshops cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and security

Mastering the Requirements Process Suzanne Robertson, James Robertson, 2013 Mastering the Requirements Process Getting Requirements Right sets out an industry proven process for gathering and verifying

requirements regardless of whether you work in a traditional or agile development environment In this sweeping update of the bestselling guide the authors show how to discover precisely what the customer wants and needs in the most efficient manner possible Improving Product Reliability and Software Quality Mark A. Levin,Ted T. Kalal,Jonathan Rodin,2019-05-28 The authoritative guide to the effective design and production of reliable technology products revised and updated While most manufacturers have mastered the process of producing quality products product reliability software quality and software security has lagged behind The revised second edition of Improving Product Reliability and Software Quality offers a comprehensive and detailed guide to implementing a hardware reliability and software quality process for technology products The authors noted experts in the field provide useful tools forms and spreadsheets for executing an effective product reliability and software quality development process and explore proven software quality and product reliability concepts The authors discuss why so many companies fail after attempting to implement or improve their product reliability and software quality program They outline the critical steps for implementing a successful program Success hinges on establishing a reliability lab hiring the right people and implementing a reliability and software quality process that does the right things well and works well together Designed to be accessible the book contains a decision matrix for small medium and large companies Throughout the book the authors describe the hardware reliability and software quality process as well as the tools and techniques needed for putting it in place The concepts ideas and material presented are appropriate for any organization This updated second edition Contains new chapters on Software tools Software quality process and software security Expands the FMEA section to include software fault trees and software FMEAs Includes two new reliability tools to accelerate design maturity and reduce the risk of premature wearout Contains new material on preventative maintenance predictive maintenance and Prognostics and Health Management PHM to better manage repair cost and unscheduled downtime Presents updated information on reliability modeling and hiring reliability and software engineers Includes a comprehensive review of the reliability process from a multi disciplinary viewpoint including new material on uprating and counterfeit components Discusses aspects of competition key quality and reliability concepts and presents the tools for implementation Written for engineers managers and consultants lacking a background in product reliability and software quality theory and statistics the updated second edition of Improving Product Reliability and Software Quality explores all phases of the product life cycle Natural Language Processing and Information Systems Christina J Hopfe,Yacine Rezgui,Elisabeth Métais,Alun Preece,Haijiang Li,2010-06-20 th The 15 International Conference on Applications of Natural Language to Information Systems NLDB 2010 took place during June 23 25 in Cardiff UK Since the first edition in 1995 the NLDB conference has been aiming at bringing together resear ers people working in industry and potential users interested in various applications of natural language in the database and information system area However in order to reflect the growing importance of accessing information from a diverse collection of sources Web Databases Sensors Cloud in an equally

wide range of contexts including mobile and tethered the theme of the 15th International Conference on Applications of Natural Language to Information Systems 2010 was Communicating with Anything Anywhere in Natural Language Natural languages and databases are core components in the development of information systems Natural language processing NLP techniques may substantially enhance most phases of the information system lifecycle starting with requirement analysis specification and validation and going up to conflict resolution result processing and presentation Furthermore natural language based query languages and user interfaces facilitate the access to information for all and allow for new paradigms in the usage of computerized services Hot topics such as information retrieval IR software engineering applications hidden Markov models natural language interfaces and semantic networks and graphs imply a complete fusion of databases IR and NLP techniques

Perspectives of System Informatics Manuel Mazzara, Andrei Voronkov, 2016-06-27 This book constitutes the refereed proceedings of the 10th International Andrei Ershov Informatics Conference PSI 2015 held in Kazan and Innopolis Russia in August 2015 The 2 invited and 23 full papers presented in this volume were carefully reviewed and selected from 56 submissions The papers cover various topics related to the foundations of program and system development and analysis programming methodology and software engineering and information technologies *Software War Stories* Donald J. Reifer, 2013-10-14 A comprehensive practical book on software management that dispels real world issues through relevant case studies Software managers inevitably will meet obstacles while trying to deliver quality products and provide value to customers often with tight time restrictions The result *Software War Stories* This book provides readers with practical advice on how to handle the many issues that can arise as a software project unfolds It utilizes case studies that focus on what can be done to establish and meet reasonable expectations as they occur in government industrial and academic settings The book also offers important discussions on both traditional and agile methods as well as lean development concepts *Software War Stories* Covers the basics of management as applied to situations ranging from agile projects to large IT projects with infrastructure problems Includes coverage of topics ranging from planning estimating and organizing to risk and opportunity management Uses twelve case studies to communicate lessons learned by the author in practice Offers end of chapter exercises sample solutions and a blog for providing updates and answers to readers questions *Software War Stories* Case Studies in Software Management mentors practitioners software engineers students and more providing relevant situational examples encountered when managing software projects and organizations **Professional Advancements and**

Management Trends in the IT Sector Colomo-Palacios, Ricardo, 2012-04-30 While a typical project manager's responsibility and accountability are both limited to a project with a clear start and end date IT managers are responsible for an ongoing ever changing process for which they must adapt and evolve to stay updated dependable and secure in their field *Professional Advancements and Management Trends in the IT Sector* offers the latest managerial trends within the field of information technology management By collecting research from experts from around the world in a variety of sectors and

levels of technical expertise this volume offers a broad variety of case studies best practices methodologies and research within the field of information technology management It will serve as a vital resource for practitioners and academics alike

Sources of Weapon System Cost Growth Joseph G. Bolten, Robert S. Leonard, Mark V. Arena, Obaid Younossi, Jerry M. Sollinger, 2008-06-19 This analysis uses data from Selected Acquisition Reports to determine the causes of cost growth in 35 mature major defense acquisition programs Four major sources of growth are identified 1 errors in estimation and scheduling 2 decisions by the government 3 financial matters and 4 miscellaneous The analysis shows that more than two thirds of cost growth measured as simple averages is caused by decisions most of which involve quantity changes requirements growth and schedule changes

Systems Engineering and Program Management David E. Stem, Michael Boito, Obaid Younossi, 2006 Systems engineering and program management SE PM constitute a large portion of the acquisition cost of military aircraft and guided weapons systems The goal of this study was the development of a set of cost estimating relationships that can be used to estimate the SE PM cost element for development and production of aircraft and weapons programs The authors investigate trends in SE PM costs over time to generate methods that cost analysts can use early in the life cycle of a program when little cost information is available

Product-Focused Software Process Improvement Muhammad Ali Babar, Matias Vierimaa, Markku Oivo, 2010-06-11 This book constitutes the refereed proceedings of the 11th International Conference on Product Focused Software Process Improvement PROFES 2010 held in Limerick Ireland in June 2010 The 28 revised full papers presented together with the abstracts of 2 keynote addresses were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on software quality assurance agile software development software business software systems process quality software measurement and software process improvement

Historical Cost Growth of Completed Weapon System Programs Mark V. Arena, 2006 This report is one of a series from a RAND Project AIR FORCE project The Cost of Future Military Aircraft Historical Cost Estimating Relationships and Cost Reduction Initiatives The purpose of the project is to improve the tools used to estimate the costs of future weapon systems It focuses on how recent technical management and government policy changes affect cost This report focuses on the accuracy of cost estimates For our analysis we used a very specific sample of Selected Acquisition Report SAR data namely only programs that are complete or are nearly so The analysis indicates a systematic bias toward underestimating the costs and substantial uncertainty in estimating the final cost of a weapon system In contrast to the previous literature the cost growth was higher than previously observed We also found few correlations with cost growth but observed that programs with longer duration had greater cost growth and electronics programs tended to have lower cost growth Although there were some differences in the mean cost growth factors among the military departments the differences were not statistically significant While newer programs appear to have lower cost growth this trend appears to be due to factors other than acquisition policies

Budget Estimating Relationships for Depot-level

Reparables in the Air Force Flying Hour Program Gregory G. Hildebrandt, 2007 Budget estimating relationships BERs for flying depot level reparables DLRs explain the direct effect of specified variables on obligated funds associated with spare parts that directly support the U S Air Force USAF Flying Hour Program In FY02 net sales of DLRs to Air Force commands hit historic highs To provide the Air Force Cost Analysis Improvement Group with a tool to better understand the commands budgetary submissions we develop several explanatory BERs to understand why flying DLRs are at their particular levels Using longitudinal regression statistical methods we explain the historical net sales of flying DLRs using estimating models that relate net sales to the contemporaneous values of aircraft characteristics operational tempo and time related variables This is but one part of a larger project to develop better estimating methods for use by the acquisition community and to examine the impact of Air Force and DoD policies on weapon system costs The findings will also be of interest to those in the national security community who are involved in analyzing alternative military postures and to members of the aircraft industry s analytical community

Is Weapon System Cost Growth Increasing? Obaid Younossi, 2007 In recent decades there have been numerous attempts to rein in the cost growth of U S Department of Defense DoD acquisition programs Cost growth is the ratio of the cost estimate reported in a program s final Selected Acquisition Report SAR and the cost estimate baseline reported in a prior SAR issued at a particular milestone Drawing on prior RAND research new analyses of completed and ongoing weapon system programs and data drawn from SARs this study addresses the following questions What is the cost growth of DoD weapon systems What has been the trend of cost growth over the past three decades To address the magnitude of cost growth it examines cost growth in completed programs to evaluate the cost growth trend over time it provides additional analysis of a selection of ongoing programs This sample of ongoing programs permits a look at growth trends in the more recent past Changes in the mix of system types over time and dollar weighted analysis were also considered because earlier studies have suggested that cost growth varies by program type and the cost of the program The findings suggest that development cost growth over the past three decades has remained high and without any significant improvement

Guidelines and Metrics for Assessing Space System Cost Estimates Bernard Fox, Kevin Brancato, Brien Alkire, 2008 1 Introduction 2 Space system fundamentals 3 Reviewing a cost estimate 4 Space vehicle cost crosschecks 5 Common issues in estimating space programs 6 Resources for space system cost estimation 7 Recommendations

Impossible Certainty , 2006 This report is one of a series from a RAND Project AIR FORCE project The Cost of Future Military Aircraft Historical Cost Estimating Relationships and Cost Reduction Initiatives

Evolutionary Acquisition Mark A. Lorell, Julia Lowell, Obaid Younossi, 2006 So far EA implementation of military space programs has produced mixed results The capabilities and requirements definition and management processes are major challenges in all EA programs EA programs require an evolutionary costing approach most cost analysts interviewed expressed generally positive views about EA

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