

# Software Cost Estimation Methods

- **Cost estimation:** prediction of both the person-effort and elapsed time of a project
- **Methods:**
  - Algorithmic
  - Expert judgement
  - Estimation by analogy
  - Parkinsonian
  - Price-to-win
  - Top-down
  - Bottom-up
- **Best approach is a combination of methods**
  - compare and iterate estimates, reconcile differences
- **COCOMO - the “CONstructive COst MOdel”**
  - COCOMO II is the update to Dr. Barry Boehm’s COCOMO 1981
- **COCOMO is the most widely used, thoroughly documented and calibrated cost model**

# Software Cost Estimation With Cocomo Ii

**Jan Bosch, Jaejoon Lee**



## **Software Cost Estimation With Cocomo Ii:**

*Software Cost Estimation with Cocomo II* Barry W. Boehm, 2000 Don't become a statistic take control of your software projects and plan for success Success in all types of organization depends increasingly on the development of customized software solutions yet more than half of software projects now in the works will exceed both their schedules and their budgets by more than 50% While some types of overruns remain unpredictable most can be avoided by sound modeling COCOMO II provides you with a thorough rework of the classic COCOMO model to address modern software processes and construction techniques along with representative examples of applying the models to key software decision situations It was calibrated and validated using innovative statistical techniques to fit both expert judgment and 161 carefully collected project data points The book also introduces emerging COCOMO II extensions for cost and schedule estimation of COTS integration and rapid development You'll also Learn firsthand from knowledgeable authors over 100 person years of software cost estimation experience Make better software decisions by exploring their cost implications Use the cost and schedule estimates to better plan and control your projects and manage your risks Get started now with the software on the accompanying CD Keep up to date with the authors Web site Software engineers managers and students will all find *Software Cost Estimation with COCOMO II* an invaluable guide to developing and managing successful software projects on time and under budget About the CD ROM The accompanying CD ROM includes a current copy of COCOMO II along with demonstration versions of three commercial COCOMO II packages and an extensive documentation suite All examples from the book are provided live so you can work them hands on along with the reading

**The COCOMO II Suite of Software cost estimation models** Barry W. Boehm, European Software Institute, 2002

**An Uncertainty Analysis of the Cocomo II Parametric Software Cost Estimation Model** Lonnie Earl Cheney, 2005

**Applied Software Project Management** Andrew Stellman, Jennifer Greene, 2005-11-18 If you're looking for solid easy to follow advice on estimation requirements gathering managing change and more you can stop now this is the book for you Scott Berkun Author of *The Art of Project Management* What makes software projects succeed It takes more than a good idea and a team of talented programmers A project manager needs to know how to guide the team through the entire software project There are common pitfalls that plague all software projects and rookie mistakes that are made repeatedly sometimes by the same people Avoiding these pitfalls is not hard but it is not necessarily intuitive Luckily there are tried and true techniques that can help any project manager In *Applied Software Project Management* Andrew Stellman and Jennifer Greene provide you with tools techniques and practices that you can use on your own projects right away This book supplies you with the information you need to diagnose your team's situation and presents practical advice to help you achieve your goal of building better software Topics include Planning a software project Helping a team estimate its workload Building a schedule Gathering software requirements and creating use cases Improving programming with refactoring unit testing and version control Managing an

outsourced project Testing software Jennifer Greene and Andrew Stellman have been building software together since 1998 Andrew comes from a programming background and has managed teams of requirements analysts designers and developers Jennifer has a testing background and has managed teams of architects developers and testers She has led multiple large scale outsourced projects Between the two of them they have managed every aspect of software development They have worked in a wide range of industries including finance telecommunications media nonprofit entertainment natural language processing science and academia For more information about them and this book visit [stellman.greene.com](http://stellman.greene.com)

**Software Product Lines: Going Beyond** Jan Bosch, Jaejoon Lee, 2010 This volume constitutes the refereed proceedings of the 14th International Software Product Line Conference SPLC 2010 held on Jeju Island South Korea in September 2010

**Software Process Change** Qing Wang, 2006-05-09 This book constitutes the refereed proceedings of the First joint International Software Process Workshop and the International Workshop on Software Process Simulation and Modeling SPW ProSim 2006 The 34 revised full papers presented together with 4 keynote addresses are organized in topical sections on process tailoring and decision support process tools and metrics process management process representation analysis and modeling process simulation modeling process simulation applications and experience report , **The IT**

**Measurement Compendium** Manfred Bundschuh, Carol Dekkers, 2008-08-15 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 ex ple 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 Process and**

**Product Measurement** Reiner R. Dumke, René Braungarten, Günter Büren, Alain Abran, Juan J. Cuadrado-Gallego, 2008-11-14 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

**Informatics Engineering and Information Science** Azizah Abd Manaf, Akram Zeki, Mazdak Zamani, Suriyati Chuprat, Eyas El-Qawasmeh, 2011-11-10 This 4 Volume Set CCIS 0251 CCIS 0254 constitutes the refereed proceedings of the International Conference on Informatics Engineering and Information Science ICIEIS 2011 held in Kuala Lumpur Malaysia in November 2011 The 210 revised full papers presented together with invited papers in the 4 volumes were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on e learning information security software engineering image processing algorithms artificial intelligence and soft computing e commerce data mining neural networks social networks grid computing biometric technologies networks distributed and parallel computing wireless networks information and data management web applications and software systems multimedia ad hoc networks mobile computing as well as miscellaneous topics in digital information and communications

**Offshoring of Software Development** Juho Mäkiö, 2008 Computer Networks and Information Technologies Vinu V Das, Janahanlal Stephen, Yogesh Chaba, 2011-03-07 This book constitutes the refereed proceedings of the Second International Conference on Advances in Communication Network and Computing CNC 2011 held in Bangalore India in March 2011 The 41 revised full papers presented together with 50 short papers and 39 poster papers were carefully reviewed and selected for inclusion in the book The papers feature current research in the field of Information Technology Networks Computational Engineering Computer and Telecommunication Technology ranging from theoretical and methodological issues to advanced applications

**Exploring Innovative and Successful Applications of Soft Computing** Masegosa, Antonio D., Villacorta, Pablo J., Cruz-Corona, Carlos, García-Cascales, M. Socorro, Lamata, María T., Verdegay, José L., 2013-11-30 The evolution of soft computing applications have offered a multitude of methodologies and techniques that are useful in facilitating new ways to address practical and real scenarios in a variety of fields Exploring Innovative and Successful Applications of Soft Computing highlights the applications and conclusions associated with soft computing in different technological environments Providing potential results based on new trends in the development of these services this book aims to be a reference source for researchers practitioners and students interested in the most successful soft computing methods applied to recent problems

*Technology Trends* Miguel Botto-Tobar, Guillermo Pizarro, Miguel Zúñiga-Prieto, Mayra D'Armas, Miguel Zúñiga Sánchez, 2018-12-29 This book constitutes the refereed proceedings of the 4th International Conference on Technology Trends CITT 2018 held in Babahoyo Ecuador in August 2018 The 53 revised full papers presented were carefully reviewed and selected from 204 submissions The papers are organized in topical sections on communications security and privacy computer and software engineering computational intelligence e government and e participation

**Progress in Advanced Computing and Intelligent Engineering** Khalid

Saeed, Nabendu Chaki, Bibudhendu Pati, Sambit Bakshi, Durga Prasad Mohapatra, 2018-02-08 The book focuses on both theory and applications in the broad areas of communication technology computer science and information security This two volume book contains the Proceedings of International Conference on Advanced Computing and Intelligent Engineering These volumes bring together academic scientists professors research scholars and students to share and disseminate information on knowledge and scientific research works related to computing networking and informatics to discuss the practical challenges encountered and the solutions adopted The book also promotes translation of basic research into applied investigation and convert applied investigation into practice *Managing Information Technology Projects: Building A Body Of Knowledge In It Project Management* Srinath Perera, Robert Eadie, 2023-03-07 Information Technology project management has changed dramatically over recent years Drawing on the experiences of successful project management beyond the IT industry and synergizing cutting edge research with well established practices in the IT industry this book prefigures the next normal in IT project management As a milestone publication this book augments and boosts the specialized body of knowledge in IT project management by capturing and consolidating key elements of this knowledge base Chapters are presented in four distinct sections each examining a different aspect of IT project management which includes generic project management methodologies teambuilding in relation to stakeholder management the Iron Triangle of Time Cost Quality and Risk and new and innovative technologies and software for improved project management Substantiated case studies and practical guidelines are designed to be of value to practitioners at all levels of IT project management from novices to experienced practitioners while collectively elevating the body of knowledge and skills needed This book aims to upgrade and update the knowledge of current practice to novices offer pointers to experienced practitioners on potential areas for improvement and provide innovative insights to undergraduates researchers and other academics on the development appreciation and application of IT project management knowledge Component-Based Systems Kirti Seth, Ashish Seth, Aprna Tripathi, 2020-10-28 Businesses today are faced with a highly competitive market and fast changing technologies In order to meet demanding customers needs they rely on high quality software A new field of study soft computing techniques is needed to estimate the efforts invested in component based software Component Based Systems Estimating Efforts Using Soft Computing Techniques is an important resource that uses computer based models for estimating efforts of software It provides an overview of component based software engineering while addressing uncertainty involved in effort estimation and expert opinions This book will also instruct the reader how to develop mathematical models This book is an excellent source of information for students and researchers to learn soft computing models their applications in software management and will help software developers managers and those in the industry to apply soft computing techniques to estimate efforts **Intelligent Systems in Operations: Methods, Models and Applications in the Supply Chain** Nag, Barin, 2010-03-31 This book provides knowledge and insights on present and future AI applications in

Operations Management presenting tools and decisions in terms of theoretical and empirical models methods and proposed applications Provided by publisher

**Engineering the Computer Science and IT** Safeeullah Soomro,2009-10-01 It has been many decades since Computer Science has been able to achieve tremendous recognition and has been applied in various fields mainly computer programming and software engineering Many efforts have been taken to improve knowledge of researchers educationists and others in the field of computer science and engineering This book provides a further insight in this direction It provides innovative ideas in the field of computer science and engineering with a view to face new challenges of the current and future centuries This book comprises of 25 chapters focusing on the basic and applied research in the field of computer science and information technology It increases knowledge in the topics such as web programming logic programming software debugging real time systems statistical modeling networking program analysis mathematical models and natural language processing

**Latest Trends of Information Technology** Dr.Kashif Qureshi,2019-07-20 Just some years before there have been no throngs of Machine Learning scientists developing intelligent merchandise and services at major corporations and startups Once the youngest folks the authors entered the sector machine learning didn't command headlines in daily newspapers Our oldsters had no plan what machine learning was including why we would like it to a career in medication or law Machine learning was an advanced tutorial discipline with a slender set of real world applications And people applications e g speech recognition and pc vision needed most domain data that they were usually thought to be separate areas entirely that machine learning was one tiny part Neural networks the antecedents of the deep learning models that we tend to specialize in during this book were thought to be out of date tools In simply the previous five years deep learning has taken the world by surprise using fast progress in fields as diverse as laptop vision herbal language processing computerized speech recognition reinforcement learning and statistical modelling With these advances in hand we can now construct cars that power themselves with increasing autonomy clever reply structures that anticipate mundane replies assisting humans to dig out from mountains of email and software program retailers that dominate the world's first class people at board video games like Go a feat once deemed to be a long time away Already these equipment are exerting a widening impact changing the way films are made diseases are diagnosed and enjoying a developing role in simple sciences from astrophysics to biology This e book represents our attempt to make deep learning approachable instructing you each the concepts the context and the code

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## **Table of Contents Software Cost Estimation With Cocomo Ii**

1. Understanding the eBook Software Cost Estimation With Cocomo Ii
  - The Rise of Digital Reading Software Cost Estimation With Cocomo Ii
  - Advantages of eBooks Over Traditional Books
2. Identifying Software Cost Estimation With Cocomo Ii
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Software Cost Estimation With Cocomo Ii
  - User-Friendly Interface
4. Exploring eBook Recommendations from Software Cost Estimation With Cocomo Ii



- Personalized Recommendations
- Software Cost Estimation With Cocomo Ii User Reviews and Ratings
- Software Cost Estimation With Cocomo Ii and Bestseller Lists
- 5. Accessing Software Cost Estimation With Cocomo Ii Free and Paid eBooks
  - Software Cost Estimation With Cocomo Ii Public Domain eBooks
  - Software Cost Estimation With Cocomo Ii eBook Subscription Services
  - Software Cost Estimation With Cocomo Ii Budget-Friendly Options
- 6. Navigating Software Cost Estimation With Cocomo Ii eBook Formats
  - ePub, PDF, MOBI, and More
  - Software Cost Estimation With Cocomo Ii Compatibility with Devices
  - Software Cost Estimation With Cocomo Ii Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Software Cost Estimation With Cocomo Ii
  - Highlighting and Note-Taking Software Cost Estimation With Cocomo Ii
  - Interactive Elements Software Cost Estimation With Cocomo Ii
- 8. Staying Engaged with Software Cost Estimation With Cocomo Ii
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Software Cost Estimation With Cocomo Ii
- 9. Balancing eBooks and Physical Books Software Cost Estimation With Cocomo Ii
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Software Cost Estimation With Cocomo Ii
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Software Cost Estimation With Cocomo Ii
  - Setting Reading Goals Software Cost Estimation With Cocomo Ii
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Software Cost Estimation With Cocomo Ii

- Fact-Checking eBook Content of Software Cost Estimation With Cocomo Ii
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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