

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

Brendan G. Carr



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

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

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 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,Suriayati 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

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

Evolving Toolbox for Complex Project Management Alex Gorod, Leonie Hallo, Vernon Ireland, Indra Gunawan, 2019-10-30 This book enhances learning about complex project management principles and practices through the introduction and discussion of a portfolio of tools presented as an evolving toolbox Throughout the book industry practitioners examine the toolsets that are part of the toolbox to develop a broader understanding of complex project management challenges and the available tools to address them This approach establishes a dynamic structured platform for a comprehensive analysis and assessment of the modern rapidly changing multifaceted business environment to teach the next generation of project managers to successfully cope with the ever increasing complexity of the 21st century

Principles of Software Engineering EduGorilla Prep Experts, 2024-06-05 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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

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 Offshoring of Software Development Juho Mäkiö,2008 *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 ICT Systems and Sustainability Milan Tuba,Shyam Akashe,Amit Joshi,2022-01-04 This book proposes new technologies and discusses future solutions for ICT design infrastructures as reflected in high quality papers presented at the 6th International Conference on ICT for Sustainable Development ICT4SD 2021 held in Goa India on 5-6 August 2021 The book covers the topics such as big data and data mining data fusion IoT programming toolkits and frameworks green communication systems and network use of ICT in smart cities sensor networks and embedded system network and information security wireless and optical networks security trust and privacy routing and control protocols cognitive radio and networks and natural language processing Bringing together experts from different countries the book explores a range of central issues from an international perspective *Communication and Intelligent Systems* Jagdish Chand Bansal,Mukesh Kumar Gupta,Harish Sharma,Basant Agarwal,2020-04-09 This book gathers selected research papers presented at the International Conference on Communication and Intelligent Systems ICCIS 2019 organised by Swami Keshvanand Institute of Technology Management Gramothan SKIT Jaipur India and Rajasthan Technical University Kota India on 9-10 November 2019 This book presents a collection of state of the art research work involving cutting edge technologies for communication and intelligent systems Over the past few years advances in artificial intelligence and machine learning have sparked new research efforts around the globe which explore novel ways of developing intelligent systems and smart communication technologies The

book presents single and multi disciplinary research on these themes in order to make the latest results available in a single readily accessible source

Practical Software Project Estimation: A Toolkit for Estimating Software Development Effort & Duration Peter Hill, International Software Benchmarking Standards Group, 2010-08-29 Product verifiable defensible and achievable software estimates Based on data collected by the International Software Benchmarking Standards Group ISBSG Practical Software Project Estimation explains how to accurately forecast the size cost and schedule of software projects Get expert advice on generating accurate estimates minimizing risks and planning and managing projects Valuable appendixes provide estimation equations delivery rate tables and the ISBSG Repository demographics Verify project objectives and requirements Determine validate and refine software functional size Produce indicative estimates using regression equations Predict effect and duration through comparison and analogy Build estimation frameworks Perform benchmarks using the ISBSG Repository Compare IFPUG COSMIC and FiSMA sizing methods Peter Hill is the chief executive officer and a director of the ISBSG He has been in the information services industry for more than 40 years and has compiled and edited five books for the ISBSG

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

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