
Applying Software Effort Estimation Model Based On Work

Computer Engineering: Concepts, Methodologies, Tools and Applications
Computational Intelligence Applications for Software Engineering Problems
Advances in Machine Learning Research and Application: 2012 Edition
Portability of Process-Aware and Service-Oriented Software
Tools and Techniques for Software Development in Large Organizations: Emerging
Research and Opportunities
Automated Software Engineering: A Deep Learning-Based Approach
Applied Software Project Management
The Art and Science of Analyzing Software Data
A Journey Towards Bio-inspired Techniques in Software Engineering
Practice Standard for Project Estimating - Second Edition
Software Engineering Perspectives in Intelligent Systems
Strategic Decision Making
Software Process and Product Measurement
Agile Estimating and Planning

Component-Based Systems
Software Project Management
Software Engineering Application in Informatics
Handbook of Research on E-Services in the Public Sector: E-Government Strategies and Advancements
Artificial Intelligence and Applied Mathematics in Engineering Problems
Software Metrics
Software Project Effort Estimation
The IFPUG Guide to IT and Software Measurement
Issues in Software Research, Design, and Application: 2013 Edition
Evolutionary Computation and Optimization Algorithms in Software Engineering: Applications and Techniques
Practical Software Project Estimation: A Toolkit for Estimating Software Development Effort & Duration
Nanoelectronics, Circuits and Communication Systems
Intelligent Computing and Information Science
Computational Intelligence and Quantitative Software Engineering
Applying Use Cases
UGC NET Computer Science Practice Set [Question Bank] Book Unit Wise
3000+Question Answer [MCQ] with Explanations

Software Estimation
Sharing Data and Models in Software Engineering
Nanoelectronics, Circuits and Communication Systems
Software Cost Estimation, Benchmarking, and Risk Assessment
Software Technologies
User Stories Applied
Software Engineering Perspectives and Application in Intelligent Systems
Research Anthology on Agile Software, Software Development, and Testing
Software Engineering
Software Cost Estimation and Sizing Methods

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**Computer Engineering:
Concepts,
Methodologies, Tools**

and Applications CRC
Press

This book constitutes the
refereed proceedings of
the 4th Computational
Methods in Systems and
Software 2020 (CoMeSySo
2020) proceedings.
Software engineering,

computer science and
artificial intelligence are
crucial topics for the
research within an
intelligent systems
problem domain. The
CoMeSySo 2020
conference is breaking
the barriers, being held

online. CoMeSySo 2020 intends to provide an international forum for the discussion of the latest high-quality research results.

Computational Intelligence Applications for Software Engineering Problems CRC Press

This book features research presented at the 1st International Conference on Artificial Intelligence and Applied Mathematics in Engineering, held on 20–22 April 2019 at Antalya, Manavgat (Turkey). In today’s world,

various engineering areas are essential components of technological innovations and effective real-world solutions for a better future. In this context, the book focuses on problems in engineering and discusses research using artificial intelligence and applied mathematics. Intended for scientists, experts, M.Sc. and Ph.D. students, postdocs and anyone interested in the subjects covered, the book can also be used as a reference resource for courses related to

artificial intelligence and applied mathematics. Advances in Machine Learning Research and Application: 2012 Edition Rand Corporation
Issues in Software Research, Design, and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Software Research. The editors have built Issues in Software Research, Design, and Application: 2013 Edition on the vast information databases of

ScholarlyNews.™ You can expect the information about Software Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Software Research, Design, and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled,

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Portability of Process-Aware and Service-Oriented Software

Springer Nature
Project estimating plays a vital role in project management. Typically completed in the initial planning stages, accurate project estimation can be

a difficult task. Organizations and project managers should use these initial estimates to baseline the project schedule and cost, then refine these estimates as the project develops. Accurate estimation and refinement of the estimates leads to better and earlier decision making, thus maximizing value. Developed within the framework of A Guide to the Project Management Body of Knowledge (PMBOK® Guide) &- Sixth Edition and other PMI standards,

the Practice Standard for Project Estimating & Second Edition focuses on providing models for the project management profession in both plan-driven and change-driven adaptive (agile) life cycles. This practice standard describes the aspects of project estimating that are recognized as good practice on most projects most of the time and that are widely recognized and consistently applied. PMI practice standards describe processes, activities, constraints,

inputs, and outputs for specific discipline subject areas and are targeted to all practitioners within projectized organizations, not just project managers.

**Tools and Techniques for Software Development in Large Organizations:
Emerging Research and Opportunities**

Morgan Kaufmann Software effort estimation is one of the oldest and most important problems in software project management, and thus today there are a large number of models, each

with its own unique strengths and weaknesses in general, and even more importantly, in relation to the environment and context in which it is to be applied. Trendowicz and Jeffery present a comprehensive look at the principles of software effort estimation and support software practitioners in systematically selecting and applying the most suitable effort estimation approach. Their book not only presents what approach to take and how to apply and improve it,

but also explains why certain approaches should be used in specific project situations. Moreover, it explains popular estimation methods, summarizes estimation best-practices, and provides guidelines for continuously improving estimation capability. Additionally, the book offers invaluable insights into project management in general, discussing issues including project trade-offs, risk assessment, and organizational learning. Overall, the authors

deliver an essential reference work for software practitioners responsible for software effort estimation and planning in their daily work and who want to improve their estimation skills. At the same time, for lecturers and students the book can serve as the basis of a course in software processes, software estimation, or project management. **Automated Software Engineering: A Deep Learning-Based Approach** Diwakar Education Hub

In a down-to-the earth manner, the volume lucidly presents how the fundamental concepts, methodology, and algorithms of Computational Intelligence are efficiently exploited in Software Engineering and opens up a novel and promising avenue of a comprehensive analysis and advanced design of software artifacts. It shows how the paradigm and the best practices of Computational Intelligence can be creatively explored to

carry out comprehensive software requirement analysis, support design, testing, and maintenance. Software Engineering is an intensive knowledge-based endeavor of inherent human-centric nature, which profoundly relies on acquiring semiformal knowledge and then processing it to produce a running system. The knowledge spans a wide variety of artifacts, from requirements, captured in the interaction with customers, to design practices, testing, and

code management strategies, which rely on the knowledge of the running system. This volume consists of contributions written by widely acknowledged experts in the field who reveal how the Software Engineering benefits from the key foundations and synergistically existing technologies of Computational Intelligence being focused on knowledge representation, learning mechanisms, and population-based global optimization strategies.

This book can serve as a highly useful reference material for researchers, software engineers and graduate students and senior undergraduate students in Software Engineering and its sub-disciplines, Internet engineering, Computational Intelligence, management, operations research, and knowledge-based systems. *Applied Software Project Management* ScholarlyEditions Software effort estimation is a key element of

software project planning and management. Yet, in industrial practice, the important role of effort estimation is often underestimated and/or misunderstood. In this book, Adam Trendowicz presents the CoBRA method (an abbreviation for Cost Estimation, Benchmarking, and Risk Assessment) for estimating the effort required to successfully complete a software development project, which uniquely combines human judgment and measurement data in

order to systematically create a custom-specific effort estimation model. CoBRA goes far beyond simply predicting the development effort; it supports project decision-makers in negotiating the project scope, managing project risks, benchmarking productivity, and directing improvement activities. To illustrate the method's practical use, the book reports several real-world cases where CoBRA was applied in various industrial contexts. These cases represent different

estimation contexts in terms of software project environment, estimation objectives, and estimation constraints. This book is the result of a successful collaboration between the process management division of Fraunhofer IESE and many software companies in the field of software engineering technology transfer. It mainly addresses software practitioners who deal with planning and managing software development projects as part of their daily work, and is also of interest for

students or courses specializing in software engineering or software project management.

The Art and Science of Analyzing Software

Data "O'Reilly Media, Inc."

This new volume explores the computational intelligence techniques necessary to carry out different software engineering tasks. Software undergoes various stages before deployment, such as requirements elicitation, software designing, software project planning,

software coding, and software testing and maintenance. Every stage is bundled with a number of tasks or activities to be performed. Due to the large and complex nature of software, these tasks can become costly and error prone. This volume aims to help meet these challenges by presenting new research and practical applications in intelligent techniques in the field of software engineering.

Computational Intelligence Applications for Software Engineering

Problems discusses techniques and presents case studies to solve engineering challenges using machine learning, deep learning, fuzzy-logic-based computation, statistical modeling, invasive weed meta-heuristic algorithms, artificial intelligence, the DevOps model, time series forecasting models, and more.

A Journey Towards Bio-inspired Techniques in Software Engineering

Springer

Thoroughly reviewed and eagerly anticipated by the

agile community, User Stories Applied offers a requirements process that saves time, eliminates rework, and leads directly to better software. The best way to build software that meets users' needs is to begin with "user stories": simple, clear, brief descriptions of functionality that will be valuable to real users. In User Stories Applied, Mike Cohn provides you with a front-to-back blueprint for writing these user stories and weaving them into your development lifecycle. You'll learn what

makes a great user story, and what makes a bad one. You'll discover practical ways to gather user stories, even when you can't speak with your users. Then, once you've compiled your user stories, Cohn shows how to organize them, prioritize them, and use them for planning, management, and testing. User role modeling: understanding what users have in common, and where they differ. Gathering stories: user interviewing, questionnaires,

observation, and workshops Working with managers, trainers, salespeople and other "proxies" Writing user stories for acceptance testing Using stories to prioritize, set schedules, and estimate release costs Includes end-of-chapter practice questions and exercises User Stories Applied will be invaluable to every software developer, tester, analyst, and manager working with any agile method: XP, Scrum... or even your own home-grown approach.

Practice Standard for Project Estimating - Second Edition CRC Press

The development of software has expanded substantially in recent years. As these technologies continue to advance, well-known organizations have begun implementing these programs into the ways they conduct business. These large companies play a vital role in the economic environment, so understanding the software that they utilize is pertinent in many aspects. Researching and

analyzing the tools that these corporations use will assist in the practice of software engineering and give other organizations an outline of how to successfully implement their own computational methods. *Tools and Techniques for Software Development in Large Organizations: Emerging Research and Opportunities* is an essential reference source that discusses advanced software methods that prominent companies have adopted to develop high quality products. This

book will examine the various devices that organizations such as Google, Cisco, and Facebook have implemented into their production and development processes. Featuring research on topics such as database management, quality assurance, and machine learning, this book is ideally designed for software engineers, data scientists, developers, programmers, professors, researchers, and students seeking coverage on the advancement of software

devices in today's major corporations.

Software Engineering Perspectives in Intelligent Systems Springer Nature Evolutionary Computation and Optimization Algorithms in Software Engineering: Applications and Techniques lays the foundation for the successful integration of evolutionary computation into software engineering. It surveys techniques ranging from genetic algorithms, to swarm optimization theory, to ant colony optimization, demonstrating their uses

and capabilities. These techniques are applied to aspects of software engineering such as software testing, quality assessment, reliability assessment, and fault prediction models, among others, to providing researchers, scholars and students with the knowledge needed to expand this burgeoning application.

Strategic Decision Making Springer Strategic Decision Making provides an effective, formal methodology that provides help with

decision making problems, especially strategic ones with high stakes involving human perceptions and judgements. Focusing on applying the AHP to decision-making problems, Strategic Decision Making covers problems in the realms of business, defence and governance. Using case studies drawn from years of experience, the book discusses decision making for real life problems and includes many worked examples and solutions to problems throughout. The

reader will gain comprehensive exposure to the extent of assistance that a formal methodology, such as AHP, can provide to the decision maker in evolving decisions in complex and varied domains.

Software Process and Product Measurement

Palgrave Macmillan

This two-volume set (CCIS 134 and CCIS 135)

constitutes the refereed proceedings of the International Conference on Intelligent Computing and Information Science,

ICICIS2011, held in Chongqing, China, in January 2011. The 226 revised full papers presented in both volumes, CCIS 134 and CCIS 135, were carefully reviewed and selected from over 600 initial submissions. The papers provide the reader with a broad overview of the latest advances in the field of intelligent computing and information science. [Agile Estimating and Planning](#) ScholarlyEditions 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.

Component-Based

Systems Springer 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.

Software Project

Management IGI Global The volume Software Engineering Perspectives and Application in Intelligent Systems presents new approaches and methods to real-world problems, and in particular, exploratory

research that describes novel approaches in the field of Software Engineering. Particular emphasis is laid on modern trends in selected fields of interest. New algorithms or methods in a variety of fields are also presented. The 5th Computer Science On-line Conference (CSOC 2016) is intended to provide an international forum for discussions on the latest research results in all areas related to Computer Science. The addressed topics are the theoretical aspects and applications

of Computer Science, Artificial Intelligences, Cybernetics, Automation Control Theory and Software Engineering. Software Engineering Application in Informatics Microsoft Press
The Art and Science of Analyzing Software Data provides valuable information on analysis techniques often used to derive insight from software data. This book shares best practices in the field generated by leading data scientists, collected from their experience training

software engineering students and practitioners to master data science. The book covers topics such as the analysis of security data, code reviews, app stores, log files, and user telemetry, among others. It covers a wide variety of techniques such as co-change analysis, text analysis, topic analysis, and concept analysis, as well as advanced topics such as release planning and generation of source code comments. It includes stories from the trenches from expert data

scientists illustrating how to apply data analysis in industry and open source, present results to stakeholders, and drive decisions. - Presents best practices, hints, and tips to analyze data and apply tools in data science projects - Presents research methods and case studies that have emerged over the past few years to further understanding of software data - Shares stories from the trenches of successful data science initiatives in industry

Handbook of Research

on E-Services in the Public Sector: E-Government Strategies and Advancements CRC Press

For more than 20 years, this has been the best selling guide to software engineering for students and industry professionals alike. This edition has been completely updated and contains hundreds of new references to software tools.

Artificial Intelligence and Applied Mathematics in Engineering Problems
Springer Science & Business Media

Often referred to as the “black art” because of its complexity and uncertainty, software estimation is not as difficult or puzzling as people think. In fact, generating accurate estimates is straightforward—once you understand the art of creating them. In his highly anticipated book, acclaimed author Steve McConnell unravels the mystery to successful software estimation—distilling academic information and real-world experience into

a practical guide for working software professionals. Instead of arcane treatises and rigid modeling techniques, this guide highlights a proven set of procedures, understandable formulas, and heuristics that individuals and development teams can apply to their projects to help achieve estimation proficiency. Discover how to: Estimate schedule and cost—or estimate the functionality that can be delivered within a given time frame Avoid common

software estimation mistakes Learn estimation techniques for you, your team, and your organization * Estimate specific project activities—including development, management, and defect correction Apply estimation approaches to any type of project—small or large, agile or traditional Navigate the shark-infested political waters that surround project estimates When many corporate software projects are failing, McConnell shows you

what works for successful software estimation. *Software Metrics* Addison-Wesley Professional 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

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