

Reliability Quantification of OO Design -Complexity Perspective-

A. Yadav¹, R. A. Khan²

Department of Information Technology
Babasaheb Bhimrao Ambedkar University, Lucknow, India
{amitabha.engg, kharasees }@yahoo.com

Abstract. Object oriented design and development are popular conceptions in today's software development scenario. Object oriented design supports design principal such as inheritance, coupling, cohesion and encapsulation. The proposed research work will deliver a mechanism for reliability estimation of object oriented design in respect of complexity perspective. The four metrics Inherited Class Complexity (IC2), Coupling Complexity Normalization (CCN), Class Cohesion Complexity Metric (C3M), Encapsulated Class Complexity Metric (EC2M) are proposed for each of object oriented design constructs such as inheritance, coupling, cohesion and encapsulation respectively. Complexity and reliability estimation approach is presented in this paper. On the basis of proposed metrics a multiple regression equation has been established for computing the complexity of design hierarchies. Complexity is inversely affects reliability of object oriented designs. Again a multiple regression equation has been established to compute reliability in respect of complexity. Comparative analysis among metric values, reliability and complexity has been done in this paper.

Keywords: Complexity, Reliability, Estimation, Design, Quantification.

1 Introduction

Software spread over our modern society very rapidly over last two decades. Nothing can be operated without the use of software like cameras, VCRs, televisions, car engines, vending machine etc. Software is a systematic representation and processing of human knowledge [1]. Today, everything is depended on computer software. The dependency on software increases failures, when software does not execute reliably. Software executes reliably when it does what it is supposed to do. Software reliability is still a challenging problem that affects software producers from small developer teams to big vendors [2]. The increasing complexity of software systems makes reliability more difficult to handle. In addition, most software developers have insufficient knowledge of reliability aspect and use immature reliability assurance techniques for preventing reliability defects across the entire software development life cycle. This worsens the problem of reliable software engineering [1]. There are several approaches to makes the system highly reliable. Among several approaches object oriented design is one of the important approach to estimates

Reliability Estimation Of Object Oriented Design Complexity Perspective

**M. Shamim Kaiser, Anirban
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Reliability Estimation of Object Oriented Design Amitabha Yadav, 2014-12-18 Advances in Computer Science, Engineering & Applications David C. Wyld, Jan Zizka, Dhinakaran Nagamalai, 2012-05-15 The International conference series on Computer Science Engineering Applications ICCSEA aims to bring together researchers and practitioners from academia and industry to focus on understanding computer science engineering and applications and to establish new collaborations in these areas The Second International Conference on Computer Science Engineering Applications ICCSEA 2012 held in Delhi India during May 25 27 2012 attracted many local and international delegates presenting a balanced mixture of intellect and research both from the East and from the West Upon a strenuous peer review process the best submissions were selected leading to an exciting rich and a high quality technical conference program which featured high impact presentations in the latest developments of various areas of computer science engineering and applications research An Integrated Approach to Software Engineering Pankaj Jalote, 2012-12-06 A lot has changed in the fast moving area of software engineering since the first edition of this book came out However two particularly dominant trends are clearly discernible focus on software processes and object orientation A lot more attention is now given to software processes because process improvement is considered one of the basic mechanisms for improving quality and productivity And the object oriented approach is considered by many one of the best hopes for solving some of the problems faced by software developers In this second edition these two trends are clearly highlighted A separate chapter has been included entitled Software Processes In addition to talking about the various development process models the chapter discusses other processes in software development and other issues related to processes Object orientation figures in many chapters Object oriented analysis is discussed in the chapter on requirements while there is a complete chapter entitled Object Oriented Design Some aspects of object oriented programming are discussed in the chapter on coding while specific techniques for testing object oriented programs are discussed in the chapter on testing Overall if one wants to develop software using the paradigm of object orientation aB aspects of development that require different handling are discussed Most of the other chapters have also been enhanced in various ways In particular the chapters on requirements specification and testing have been considerably enhanced

Scientific and Technical Aerospace Reports, 1995 **Soft Computing: Theories and Applications** Millie Pant, Kanad Ray, Tarun K. Sharma, Sanyog Rawat, Anirban Bandyopadhyay, 2017-11-23 This book focuses on soft computing and its applications to solve real life problems occurring in different domains ranging from medical and health care supply chain management and image processing to cryptanalysis It presents the proceedings of International Conference on Soft Computing Theories and Applications SoCTA 2016 offering significant insights into soft computing for teachers and researchers and inspiring more and more researchers to work in the field of soft computing The term soft computing represents an umbrella term for computational techniques like fuzzy logic neural networks and nature inspired algorithms In

the past few decades there has been an exponential rise in the application of soft computing techniques for solving complex and intricate problems arising in different spheres of life The versatility of these techniques has made them a favorite among scientists and researchers working in diverse areas SoCTA is the first international conference being organized at Amity University Rajasthan AUR Jaipur The objective of SoCTA 2016 is to provide a common platform to researchers academicians scientists and industrialists working in the area of soft computing to share and exchange their views and ideas on the theory and application of soft computing techniques in multi disciplinary areas The aim of the conference is to bring together young and experienced researchers academicians scientists and industrialists for the exchange of knowledge SoCTA especially encourages the young researchers at the beginning of their career to participate in this conference and present their work on this platform

Software Measurement and Estimation Linda M. Laird, M. Carol Brennan, 2006-06-12 An effective quantitative approach for estimating and managing software projects How many people do I need When will the quality be good enough for commercial sale Can this really be done in two weeks Rather than relying on instinct the authors of Software Measurement and Estimation offer a new tested approach that includes the quantitative tools data and knowledge needed to make sound estimations The text begins with the foundations of measurement identifies the appropriate metrics and then focuses on techniques and tools for estimating the effort needed to reach a given level of quality and performance for a software project All the factors that impact estimations are thoroughly examined giving you the tools needed to regularly adjust and improve your estimations to complete a project on time within budget and at an expected level of quality This text includes several features that have proven to be successful in making the material accessible and easy to master Simple straightforward style and logical presentation and organization enables you to build a solid foundation of theory and techniques to tackle complex estimations Examples provided throughout the text illustrate how to use theory to solve real world problems Projects included in each chapter enable you to apply your newfound knowledge and skills Techniques for effective communication of quantitative data help you convey your findings and recommendations to peers and management Software Measurement and Estimation A Practical Approach allows practicing software engineers and managers to better estimate manage and effectively communicate the plans and progress of their software projects With its classroom tested features this is an excellent textbook for advanced undergraduate level and graduate students in computer science and software engineering An Instructor Support FTP site is available from the Wiley editorial department

Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014 Suresh Chandra Satapathy, Bhabendra Narayan Biswal, Siba K. Udgata, J. K. Mandal, 2014-10-31 This volume contains 87 papers presented at FICTA 2014 Third International Conference on Frontiers in Intelligent Computing Theory and Applications The conference was held during 14 15 November 2014 at Bhubaneswar Odisha India This volume contains papers mainly focused on Network and Information Security Grid Computing and Cloud Computing Cyber Security and Digital

Forensics Computer Vision Signal Image Video Processing Software Engineering in Multidisciplinary Domains and Ad hoc and Wireless Sensor Networks **Smart Computing and Informatics** Suresh Chandra Satapathy,Vikrant Bhateja,Swagatam Das,2017-10-28 This volume contains 68 papers presented at SCI 2016 First International Conference on Smart Computing and Informatics The conference was held during 3 4 March 2017 Visakhapatnam India and organized communally by ANITS Visakhapatnam and supported technically by CSI Division V Education and Research and PRF Vizag This volume contains papers mainly focused on smart computing for cloud storage data mining and software analysis and image processing **Metrics and Models in Software Quality Engineering** Stephen H. Kan,2003 This is the single best book on software quality engineering and metrics that I ve encountered Capers Jones from the Foreword Metrics and Models in Software Quality Engineering Second Edition is the definitive book on this essential topic of software development Comprehensive in scope with extensive industry examples it shows how to measure software quality and use measurements to improve the software development process Four major categories of quality metrics and models are addressed quality management software reliability and projection complexity and customer view In addition the book discusses the fundamentals of measurement theory specific quality metrics and tools and methods for applying metrics to the software development process New chapters bring coverage of critical topics including In process metrics for software testing Metrics for object oriented software development Availability metrics Methods for conducting in process quality assessments and software project assessments Dos and Don ts of Software Process Improvement by Patrick O Toole Using Function Point Metrics to Measure Software Process Improvement by Capers Jones In addition to the excellent balance of theory techniques and examples this book is highly instructive and practical covering one of the most important topics in software development quality engineering 0201729156B08282002 **Strategic Engineering for Cloud Computing and Big Data Analytics** Amin Hosseinian-Far,Muthu Ramachandran,Dilshad Sarwar,2017-02-13 This book demonstrates the use of a wide range of strategic engineering concepts theories and applied case studies to improve the safety security and sustainability of complex and large scale engineering and computer systems It first details the concepts of system design life cycle impact assessment and security to show how these ideas can be brought to bear on the modeling analysis and design of information systems with a focused view on cloud computing systems and big data analytics This informative book is a valuable resource for graduate students researchers and industry based practitioners working in engineering information and business systems as well as strategy **Third Congress on Intelligent Systems** Sandeep Kumar,Harish Sharma,K. Balachandran,Joong Hoon Kim,Jagdish Chand Bansal,2023-03-11 This book is a collection of selected papers presented at the Third Congress on Intelligent Systems CIS 2022 organized by CHRIST Deemed to be University Bangalore India under the technical sponsorship of the Soft Computing Research Society India during September 5 6 2022 It includes novel and innovative work from experts practitioners scientists and decision makers from academia and industry It covers topics such as the Internet of Things

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Handbook of Research on Emerging Advancements and Technologies in Software Engineering Ghani, Imran, Kadir, Wan Mohd Nasir Wan, Ahmad, Mohammad Nazir, 2014-04-30 Advanced approaches to software engineering and design are capable of solving complex computational problems and achieving standards of performance that were unheard of only decades ago Handbook of Research on Emerging Advancements and Technologies in Software Engineering presents a comprehensive investigation of the most recent discoveries in software engineering research and practice with studies in software design development implementation testing analysis and evolution Software designers architects and technologists as well as students and educators will find this book to be a vital and in depth examination of the latest notable developments within the software engineering community

Software Architectures, Components, and Applications Sven Overhage, Clemens A. Szyperski, Ralf H. Reussner, Judith A. Stafford, 2008-01-23 Researchers and professionals will find in this text the thoroughly refereed post proceedings of the Third International Conference on the Quality of Software Architectures QoSA 2007 held in Medford MA USA in 2007 It was mounted in conjunction with the 10th International ACM SIGSOFT Symposium on Component Based Software Engineering CBSE 2007 The 13 revised full papers presented together with one keynote lecture were carefully reviewed and selected from 42 submissions

Dependable Computing Andrea Bondavalli, 2007-09-12 This book constitutes the refereed proceedings of the Third Latin American Symposium on Dependable Computing LADC 2007 held in Morelia Mexico in September 2007 The 14 revised full papers presented together with 2 invited talks and outlines of 3 tutorials and 2 panel sessions were carefully reviewed and selected from 37 submissions The papers are organized in topical sections on fault tolerant algorithms software engineering of dependable systems networking and mobile computing experimental dependability evaluation as well as intrusion tolerance and security

Encyclopedia of Software Engineering Three-Volume Set (Print) Phillip A. Laplante, 2010-11-22 Software engineering requires specialized knowledge of a broad spectrum of topics including the construction of software and the platforms applications and environments in which the software operates as well as an understanding of the people who build and use the software Offering an authoritative perspective the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field More than 200 expert

contributors and reviewers from industry and academia across 21 countries provide easy to read entries that cover software requirements design construction testing maintenance configuration management quality control and software engineering management tools and methods Editor Phillip A Laplante uses the most universally recognized definition of the areas of relevance to software engineering the Software Engineering Body of Knowledge SWEBOK as a template for organizing the material Also available in an electronic format this encyclopedia supplies software engineering students IT professionals researchers managers and scholars with unrivaled coverage of the topics that encompass this ever changing field Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

Proceedings of International Conference on Trends in Computational and Cognitive Engineering M. Shamim Kaiser, Anirban Bandyopadhyay, Mufti Mahmud, Kanad Ray, 2020-12-16 This book presents various computational and cognitive modeling approaches in the areas of health education finance environment engineering commerce and industry It is a collection of selected conference papers presented at the International Conference on Trends in Computational and Cognitive Engineering TCCE 2020 It shares cutting edge insights and ideas from mathematicians engineers scientists and researchers and discusses fresh perspectives on problem solving in a range of research areas

Fault Detection, Supervision and Safety of Technical Processes 2006 Hong-Yue Zhang, 2007-03-01 The safe and reliable operation of technical systems is of great significance for the protection of human life and health the environment and of the vested economic value The correct functioning of those systems has a profound impact also on production cost and product quality The early detection of faults is critical in avoiding performance degradation and damage to the machinery or human life Accurate diagnosis then helps to make the right decisions on emergency actions and repairs Fault detection and diagnosis FDD has developed into a major area of research at the intersection of systems and control engineering artificial intelligence applied mathematics and statistics and such application fields as chemical electrical mechanical and aerospace engineering IFAC has recognized the significance of FDD by launching a triennial symposium series dedicated to the subject The SAFEPROCESS Symposium is organized every three years since the first symposium held in Baden Baden in 1991 SAFEPROCESS 2006 the 6th IFAC Symposium on Fault Detection Supervision and Safety of Technical Processes was held in Beijing PR China The program included three plenary papers two semi plenary papers two industrial talks by internationally recognized experts and 258 regular papers which have been selected out of a total of 387 regular and invited papers submitted Discusses the developments and future challenges in all aspects of fault diagnosis and fault tolerant control 8 invited and 36 contributed sessions included with a special session on the demonstration of process monitoring and diagnostic software tools

Soft Computing for Intelligent Systems Nikhil Marriwala, C. C Tripathi, Shruti Jain, Shivakumar Mathapathi, 2021-06-22 This book presents high quality research papers presented at the International Conference on Soft Computing for Intelligent Systems SCIS 2020 held during 18 20 December 2020 at University Institute of Engineering and Technology Kurukshetra University

Kurukshetra Haryana India The book encompasses all branches of artificial intelligence computational sciences and machine learning which is based on computation at some level such as AI based Internet of things sensor networks robotics intelligent diabetic retinopathy intelligent cancer genes analysis using computer vision evolutionary algorithms fuzzy systems medical automatic identification intelligence system and applications in agriculture health care smart grid and instrumentation systems The book is helpful for educators researchers and developers working in the area of recent advances and upcoming technologies utilizing computational sciences in signal processing imaging computing instrumentation artificial intelligence and their applications

Trustworthy Cloud Computing Vladimir O. Safonov, 2016-01-29 Introduces the topic of cloud computing with an emphasis on the trustworthiness of cloud computing systems and services This book describes the scientific basis of cloud computing explaining the ideas principles and architectures of cloud computing as well the different types of clouds and the services they provide The text reviews several cloud computing platforms including Microsoft Azure Amazon Oracle Google HP IBM Salesforce and Kaavo The author addresses the problem of trustworthiness in cloud computing and provides methods to improve the security and privacy of cloud applications The end of chapter exercises and supplementary material on the book's companion website will allow readers to grasp the introductory and advanced level concepts of cloud computing Examines cloud computing platforms such as Microsoft Azure Amazon Oracle Google HP IBM Salesforce and Kaavo Analyzes the use of aspect oriented programming AOP for refactoring cloud services and improving the security and privacy of cloud applications Contains practical examples of cloud computing test questions and end of chapter exercises Includes presentations examples of cloud projects and other teaching resources at the author's website <http://www.vladimirsafonov.org/cloud> Trustworthy Cloud Computing is written for advanced undergraduate and graduate students in computer science data science and computer engineering as well as software engineers system architects system managers and software developers new to cloud computing

Automated Software Testing Ajay Kumar Jena, Himansu Das, Durga Prasad Mohapatra, 2020-02-03 This book covers both theory and applications in the automation of software testing tools and techniques for various types of software e.g. object oriented aspect oriented and web based software When software fails it is most often due to lack of proper and thorough testing an aspect that is even more acute for object oriented aspect oriented and web based software Further since it is more difficult to test distributed and service oriented architecture based applications there is a pressing need to discuss the latest developments in automated software testing This book discusses the most relevant issues models tools challenges and applications in automated software testing Further it brings together academic researchers scientists and engineers from a wide range of industrial application areas who present their latest findings and identify future challenges in this fledgling research area

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Table of Contents Reliability Estimation Of Object Oriented Design Complexity Perspective

1. Understanding the eBook Reliability Estimation Of Object Oriented Design Complexity Perspective
 - The Rise of Digital Reading Reliability Estimation Of Object Oriented Design Complexity Perspective
 - Advantages of eBooks Over Traditional Books
2. Identifying Reliability Estimation Of Object Oriented Design Complexity Perspective
 - 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 Reliability Estimation Of Object Oriented Design Complexity Perspective
 - User-Friendly Interface
4. Exploring eBook Recommendations from Reliability Estimation Of Object Oriented Design Complexity Perspective
 - Personalized Recommendations
 - Reliability Estimation Of Object Oriented Design Complexity Perspective User Reviews and Ratings
 - Reliability Estimation Of Object Oriented Design Complexity Perspective and Bestseller Lists
5. Accessing Reliability Estimation Of Object Oriented Design Complexity Perspective Free and Paid eBooks
 - Reliability Estimation Of Object Oriented Design Complexity Perspective Public Domain eBooks
 - Reliability Estimation Of Object Oriented Design Complexity Perspective eBook Subscription Services
 - Reliability Estimation Of Object Oriented Design Complexity Perspective Budget-Friendly Options
6. Navigating Reliability Estimation Of Object Oriented Design Complexity Perspective eBook Formats

- ePub, PDF, MOBI, and More
- Reliability Estimation Of Object Oriented Design Complexity Perspective Compatibility with Devices
- Reliability Estimation Of Object Oriented Design Complexity Perspective Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Reliability Estimation Of Object Oriented Design Complexity Perspective
 - Highlighting and Note-Taking Reliability Estimation Of Object Oriented Design Complexity Perspective
 - Interactive Elements Reliability Estimation Of Object Oriented Design Complexity Perspective
- 8. Staying Engaged with Reliability Estimation Of Object Oriented Design Complexity Perspective
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Reliability Estimation Of Object Oriented Design Complexity Perspective
- 9. Balancing eBooks and Physical Books Reliability Estimation Of Object Oriented Design Complexity Perspective
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Reliability Estimation Of Object Oriented Design Complexity Perspective
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Reliability Estimation Of Object Oriented Design Complexity Perspective
 - Setting Reading Goals Reliability Estimation Of Object Oriented Design Complexity Perspective
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Reliability Estimation Of Object Oriented Design Complexity Perspective
 - Fact-Checking eBook Content of Reliability Estimation Of Object Oriented Design Complexity Perspective
 - 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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