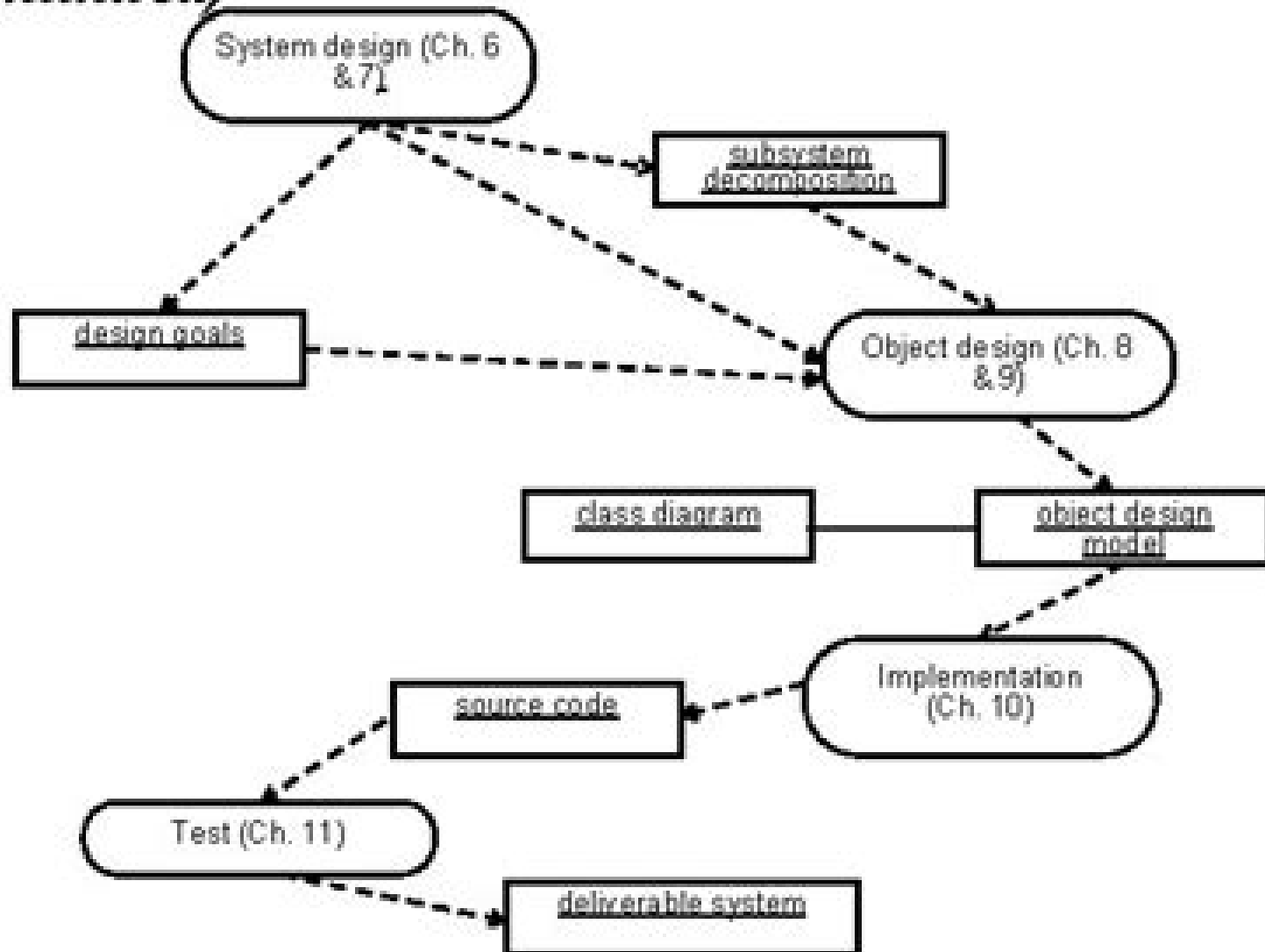


*Figure 1-2, An overview of object-oriented software engineering development activities and their products.  
(continued)*



# Quantitative Approaches In Objectoriented Software Engineering

**Flavio Oquendo**



## **Quantitative Approaches In Objectoriented Software Engineering:**

**Quantitative Approaches in Object-oriented Software Engineering** Fernando Brito e Abreu, 2002 A comprehensive description is provided of four areas of quantitative approaches in object oriented software engineering metrics collection quality assessment metrics validation and process management Object-Oriented Technology. ECOOP 2002 Workshop Reader Juan Hernández, Ana Moreira, 2003-07-01 ECOOP 2002 Workshop Reader *Object-Oriented Technology: ECOOP 2001 Workshop Reader* Akos Frohner, 2003-08-01 For the fth time in its history in cooperation with Springer Verlag the European C ference on Object Oriented Programming ECOOP conference series is glad to offer the object oriented research community the ECOOP 2001 Workshop Reader a c pendium of workshop reports panel transcripts and poster abstracts pertaining to the ECOOP 2001 conference held in Budapest from 18 to 22 June 2001 ECOOP 2001 hosted 19 high quality workshops covering a large spectrum of search topics The workshops attracted 460 participants on the rst two days of the conference Originally 22 workshops were chosen from 26 proposals by a workshop selection committee following a peer review process Due to the overlaps in the areas of interest and the suggestions made by the committee six of the groups decided to merge their topics into three workshops This book contains information on the panel poster session and 17 workshop reports for which we have to thank our workshop organizers who did a great job in preparing and formatting them The reports are organized around the main line of discussion comparing the rious approaches and giving a summary on the debates They also include the list of participants af liations contact information and the list of contributed position papers Although they usually do not include abstracts or excerpts of the position papers they do give useful references to other publications and websites where more information may be found **Object-Oriented Technology: ECOOP 2000 Workshop Reader** Jacques Malenfant, Sabine Moisan, Ana Moreira, 2003-06-26 This book documents the satellite events run around the 14th European Conference on Object Oriented Programming ECOOP 2000 in Cannes and Sophia Antipolis in June 2000 The book presents 18 high quality value adding workshop reports one panel transcription and 15 posters All in all the book offers a comprehensive and thought provoking snapshot of the current research in object orientation The wealth of information provided spans the whole range of object technology ranging from theoretical and foundational issues to applications in various domains Object-Oriented Technology. ECOOP 2003 Workshop Reader Frank Buschmann, Alejandro P. Buchmann, Mariano Cilia, 2004-06-29 This volume represents the seventh edition of the ECOOP Workshop Reader a compendium of workshop reports from the 17th European Conference on Object Oriented Programming ECOOP 2003 held in Darmstadt Germany during July 21 25 2003 The workshops were held during the rst two days of the conference They cover a wide range of interesting and innovative topics in object oriented te nology and o ered the participants an opportunity for interaction and lively discussion Twenty one workshops were selected from a total of 24 submissions based on their scienti c merit the actuality of the topic and their potential for a lively interaction Unfortunately

one workshop had to be cancelled Special thanks are due to the workshop organizers who recorded and summarized the discussions We would also like to thank all the participants for their presentations and lively contributions to the discussion they made this volume possible Last but not least we wish to express our appreciation to the members of the organizing committee who put in countless hours setting up and coordinating the workshops We hope that this snapshot of current object oriented technology will prove stimulating to you

October 2003 Frank Buschmann Alejandro Buchmann Mariano Cilia Organization ECOOP 2003 was organized by the Software Technology Group Department of Computer Science Darmstadt University of Technology under the auspices of AITO Association Internationale pour les Technologies Objets in cooperation with ACM SIGPLAN The proceedings of the main conference were published as LNCS 2743 Object-Oriented Technology. ECOOP 2008 Workshop Reader Patrick Eugster, 2009-05-25 This book contains the final reports of the workshops held during the 22nd European Conference on Object Oriented Programming ECOOP 2008 in Paphos Cyprus in July 2008 The 11 collected reports from high quality workshops provided by the respective organizers all are related to selected aspects in the field of object oriented programming and technology The topics covered span areas related to object oriented programming and technology such as programming languages aspects parallel computing formal techniques software engineering tools and applications

**Object-Oriented Technology. ECOOP 2004 Workshop Reader** Jacques Malenfant, Bjarte M. Østfold, 2005-01-24 This year for the eighth time the European Conference on Object Oriented Programming ECOOP series in cooperation with Springer is glad to offer the object oriented research community the ECOOP 2004 Workshop Reader a compendium of workshop reports pertaining to the ECOOP 2004 conference held in Oslo from June 15 to 19 2004 ECOOP 2004 hosted 19 high quality workshops covering a large spectrum of hot research topics These workshops were chosen through a tight peer review process following a specific call for proposals ending on November 30 2003 We are very grateful to the members of the Workshop Selection Committee for their careful reviews and hard work to put together the excellent workshop program We also want to thank all submitters accepted or not to whom the workshop program equally owes its quality This selection process was then followed by a selection of workshop participants done by each team of organizers based on an open call for position papers This participant selection process ensured that we gathered the most active researchers in each workshop research area and therefore a fruitful working meeting Following the tradition of the ECOOP Workshop Reader we strove for high quality value adding and open ended workshop reports The result as you can judge from the following pages is a thought provoking snapshot of the current search in object orientation

full of pointers for further exploration of the covered topics We want to thank our workshop organizers who despite the additional burden did a great job in putting together these reports Database and Expert Systems Applications Heinrich C. Mayr, Jiri Lazansky, Gerald Quirchmayr, Pavel Vogel, 2003-06-29 the 12 International Conference on Database and Expert Systems Applications was held on September 3-5 2001 at the Technical University of Munich Germany The rapidly growing

spectrum of database applications has led to the establishment of more specialized discussion platforms DaWaK conference EC Web conference and DEXA workshop which were all held in parallel with the DEXA conference in Munich In your hands are the results of much effort beginning with the preparation of the submitted papers The papers then passed through the reviewing process and the accepted papers were revised to final versions by their authors and arranged with the conference program All this culminated in the conference itself A total of 175 papers were submitted to this conference and I would like to thank all the authors They are the real base of the conference The program committee and the supporting reviewers produced altogether 497 referee reports on average of 2.84 reports per paper and selected 93 papers for presentation Comparing the weight or more precisely the number of papers devoted to particular topics at several recent DEXA conferences an increase can be recognized in the areas of XMS databases active databases and multi and hypermedia efforts The space devoted to the more classical topics such as information retrieval distribution and Web aspects and transaction indexing and query aspects has remained more or less unchanged Some decrease is visible for object orientation

**Software Process Technology** Flavio Oquendo, 2003-08-14 This book constitutes the refereed proceedings of the 9th European Workshop on Software Process Technology EWSPT 2003 held in Helsinki Finland in September 2003 The 12 revised full papers presented together with an extended abstract of an invited talk were carefully reviewed and selected from 25 submissions Among the issues addressed are process modeling languages computer supported process description analyses reuse refinement and enactment process monitoring measurement management improvement and evolution and process enactment engines tools and environments

**Metrics For Software Conceptual Models** Marcela Genero, Mario Piattini, Coral Calero, 2005-01-04 The idea that measuring quality is the key to developing high quality software systems is gaining relevance Moreover it is widely recognised that the key to obtaining better software systems is to measure the quality characteristics of early artefacts produced at the conceptual modelling phase Therefore improving the quality of conceptual models is a major step towards the improvement of software system development Since the 1970s software engineers had been proposing high quantities of metrics for software products processes and resources but had not been paying any special attention to conceptual modelling By the mid 1990s however the need for metrics for conceptual modelling had emerged This book provides an overview of the most relevant existing proposals of metrics for conceptual models covering conceptual models for both products and processes

**Hierarchy-Aware Software Metrics in Component Composition Hierarchies** Giovanni Falcone, 2010 Software metrics like Lines of Code are commonly used in software engineering Although software metrics are defined to give a concrete statement on a particular facet of a software entity they are usually interpreted from the viewpoint of more abstract concepts like complexity Software metrics were developed for a particular context like an architectural model but are often used in others than the one they were defined for The usability of metrics in a particular context highly depends on whether they have properties like extensive structure

Extensive structure and more basic properties were originally introduced in the field of measurement theory that has been used as basis for software measurement in the past In this thesis we address the software measurement related issues arising from considering software metrics in component based systems

**Software Quality - ECSQ 2002** Jyrki Kontio,Reidar Conradi,2003-08-01 Software professionals and companies live in a new world today Increasingly complex systems need to be built faster and cheaper While many of the established approaches in software quality are still valid the software quality community is going through a paradigm shift that requires a reassessment of our current method and tool portfolio as well as creating new and more effective solutions We have selected two themes for this conference to highlight this paradigm shift Our first theme production of attractive and reliable software at Internet speed sums up the dilemma many software organisations face In order to be competitive software should contain advanced features and run reliably yet it should be developed quickly and cost effectively for the right market window Finding the right balance between these objectives is a critical question that will determine business success in the years to come Our second theme production of software with a dynamic partnership network highlights the current trend of using partnerships and subcontractors as integral players in the software development process Partnerships sometimes need to be created quickly to respond to a market opportunity yet the costs and speed of cooperation must be competitive Different companies have different processes quality tools and cultures yet they should cooperate seamlessly for the best result

**Transactions on Computational Collective Intelligence VIII** Ngoc-Thanh Nguyen,2012-10-12 These Transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the Semantic Web social networks and multiagent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This eighth issue contains a collection of ten carefully selected and thoroughly revised contributions

*Information and Software Technologies* Tomas Skersys,Rimantas Butleris,Rita Butkiene,2013-11-13 This book constitutes the refereed proceedings of the 18th International Conference on Information and Software Technologies ICIST 2012 held in Kaunas Lithuania in September 2012 The 40 revised full papers presented were carefully reviewed and selected from 81 submissions The papers are organized in topical sections on artificial intelligence and knowledge engineering business process modelling analysis and design formal analysis and design methods information and software systems engineering information technology applications and computer networks information technology in teaching and learning ontology conceptual modelling and databases requirements engineering and business rules

**Advanced Information Systems Engineering** Klaus R. Dittrich,Andreas Geppert,Moira C. Norrie,2003-05-15 Since the

late 1980s the CAiSE conferences have provided a forum for the presentation and exchange of research results and practical experiences within the field of Information Systems Engineering CAiSE 2001 was the 13th conference in this series and was held from 4th to 8th June 2001 in the resort of Interlaken located near the three famous Swiss mountains the Eiger Mönch and Jungfrau The first two days consisted of pre conference workshops and tutorials The workshop themes included requirements engineering evaluation of modeling methods data integration over the Web agent oriented information systems and the design and management of data warehouses Continuing the tradition of recent CAiSE conferences there was also a doctoral consortium The pre conference tutorials were on the themes of e business models and XML application development The main conference program included three invited speakers two tutorials and a panel discussion in addition to presentations of the papers in these proceedings We also included a special practice and experience session to give presenters an opportunity to report on and discuss experiences and investigations on the use of methods and technologies in practice We extend our thanks to the members of the program committee and all other referees without whom such conferences would not be possible The program committee whose members came from 20 different countries selected 27 high quality research papers and 3 experience reports from a total of 97 submissions The topics of these papers span the wide range of topics relevant to information systems engineering from requirements and design through to implementation and operation of complex and dynamic systems

**Enterprise Information Systems V** Olivier Camp, Joaquim Filipe, Slimane Hammoudi, Mario G. Piattini, 2006-02-27 This book comprises a set of papers selected from those presented at the fifth International Conference on Enterprise Information Systems ICEIS 2003 held in Angers France from 23 to 26 April 2003 The conference was organised by the Supérieure d'Électronique de l'Ouest ESEO of Angers France and the Escola Superior de Tecnologia of Setúbal Portugal Since its first edition in 1999 ICEIS focuses on real world applications and aims at bringing together researchers engineers and practitioners interested in the advances and business applications of information systems As in previous years ICEIS 2003 held four simultaneous tracks covering different aspects of enterprise computing Databases and Information Systems Integration Artificial Intelligence and Decision Support Systems Information Systems Analysis and Specification and Software Agents and Internet Computing Although ICEIS 2003 received 546 paper submissions from over 50 countries only 80 were accepted as full papers and presented in 30 minutes oral presentations With an acceptance rate of 15% these numbers demonstrate the intention of preserving a high quality forum for future editions of this conference From the articles accepted as long papers for the conference only 32 were selected for inclusion in this book Additional keynote lectures tutorials and industrial sessions were also held during ICEIS 2003 and for the first time this year the 1st Doctoral Consortium on Enterprise Information Systems gave PhD students an opportunity to present their work to an international audience of experts in the field of information systems

*Advanced Conceptual Modeling Techniques* Antoni Olivé, Masatoshi Yoshikawa, Eric S.K. Yu, 2003-10-25 The objective of the workshops held in conjunction with ER 2002 the

21st International Conference on Conceptual Modeling was to give participants the opportunity to present and discuss emerging hot topics thus adding new perspectives to conceptual modeling To meet this objective we selected the following four workshops 2nd International Workshop on Evolution and Change in Data Management ECDM 2002 ER IFIP 8.1 Workshop on Conceptual Modelling Approaches to Mobile Information Systems Development MobIMod 2002 International Workshop on Conceptual Modeling Quality IWCQM 2002 3rd International Joint Workshop on Conceptual Modeling Approaches for E-business a Web Service Perspective eCOMO 2002 ER 2002 was organized so that there would be no overlap between the conference sessions and the workshops This proceedings contains workshop papers that were revised by the authors following discussions during the conference We are deeply indebted to the members of the organizing committees and program committees of these workshops for their hard work July 2003 Antoni Oliver Masatoshi Yoshikawa and Eric S K Yu Workshop Co chairs ER 2002 ECDM 2002 Change is a fundamental but sometimes neglected aspect of information and database systems The management of evolution and change and the ability of database information and knowledge based systems to deal with change is an essential component in developing and maintaining truly useful systems Many approaches to handling evolution and change have been proposed in various areas of data management and this forum seeks to bring together researchers and practitioners from both more established areas and from emerging areas to look at this issue

**Advances in Computer Science and Information Technology** Natarajan Meghanathan, B.K.

Kaushik, Dhinaharan Nagamalai, 2010-12-17 This volume constitutes the first of three parts of the refereed proceedings of the First International Conference on Computer Science and Information Technology CCSIT 2010 held in Bangalore India in January 2011 The 59 revised full papers presented in this volume were carefully reviewed and selected The papers are organized in topical sections on distributed and parallel systems and algorithms DSP image processing pattern recognition and multimedia software engineering database and data Mining as well as soft computing such as AI neural networks fuzzy systems etc

*Information and Database Quality* Mario G. Piattini, Coral Calero, Marcela F. Genero, 2012-12-06 In a global

and increasingly competitive market where organizations are driven by information the search for ways to transform data into true knowledge is critical to a business's success Few companies however have effective methods of managing the quality of this information Because quality is a multidimensional concept its management must consider a wide variety of issues related to information and data quality Information and Database Quality is a compilation of works from research and industry that examines these issues covering both the organizational and technical aspects of information and data quality Information and Database Quality is an excellent reference for both researchers and professionals involved in any aspect of information and database research

**Developing Quality Complex Database Systems: Practices, Techniques and Technologies**

Becker, Shirley, 2000-07-01 Developing Quality Complex Database Systems Practices Techniques and Technologies provides opportunities for improving today's database systems using innovative development practices tools



and techniques An emphasis is placed on organizational and management issues

## **Quantitative Approaches In Objectoriented Software Engineering** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Quantitative Approaches In Objectoriented Software Engineering**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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