
Metrics For Software Conceptual Models

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Perspectives in Conceptual
Modeling Springer
This book constitutes the
refereed joint proceedings of
four international workshops



held in conjunction with the 22nd International Conference on Conceptual Modelling, ER 2003, held in Chicago, IL, USA in October 2003. The 35 revised full papers presented together with introduction to the four workshops were carefully reviewed and selected from numerous submissions. In accordance with the respective workshops, the papers are organized in topical sections on conceptual modelling approaches for e-business, conceptual modelling quality, agent-oriented information systems, XML data and schema.

Handbook of Software

Engineering & Knowledge Engineering Springer

This book constitutes a collection of the best papers selected from the 12 workshops and 3 tutorials held in conjunction with MODELS 2008, the 11th International Conference on Model Driven Engineering Languages and Systems, in Toulouse, France, September 28 - October 3, 2008. The contributions are organized within the volume according to the workshops at which they were presented: Model Based Architecting and Construction of Embedded Systems (ACES-MB); Challenges in Model Driven Software Engineering (CHAMDE); Empirical Studies of

Model Driven Engineering (ESMDA); Models@runtime; Model Co-evolution and Consistency Management (MCCM); Model-Driven Web Engineering (MDWE); Modeling Security (MODSEC); Model-Based Design of Trustworthy Health Information Systems (MOTHIS); Non-functional System Properties in Domain Specific Modeling Languages (NFPin DSML); OCL Tools: From Implementation to Evaluation and Comparison (OCL); Quality in Modeling (QIM); and Transforming and Weaving Ontologies and Model Driven Engineering (TWOMDE). Each section includes a summary of the workshop. The last three

sections contain selected papers from the Doctoral Symposium, the Educational Symposium and the Research Project Symposium, respectively.

International Conference on Software Process, ICSP 2007, Minneapolis, MN, USA, May 19-20, 2007, Proceedings
Springer

This book constitutes the proceedings of the First International Conference on Advances in

Computing and Information Technology, ACITY 2011, held in Chennai, India, in July 2011. The 55 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers feature significant contributions to all major fields of the Computer Science and

Information Technology in theoretical and practical aspects. ECOOP 2000 Workshops, Panels, and Posters Sophia Antipolis and Cannes, France, June 12-16, 2000 Proceedings Springer Science & Business Media Features a useful collection of important and practical papers on applying software metrics and measurement. The book details the importance of planning a successful measurement program with a complete discussion of why, what, where, when,

and how to measure and who should be involved. Each chapter addresses these significant questions and provides the essential answers in building an effective measurement program. The book differs from others on the market by focusing on the application of the metrics rather than the metrics themselves. The author's provide information based on actual experience with successful metrics programs. Each chapter includes a case study focusing on technology transfer and a set of recommended references.

The book serves as a guide on the use and application of software metrics in industrial environments. It is specially designed for managers, product supervisors, and quality assurance personnel who want to know how to implement a metrics program.

Workshops and Symposia at MODELS 2008, Toulouse, France, September 28 - October 3, 2008. Reports and Revised Selected Papers
Springer

This book contains the best papers of the First

International Conference on Software and Data Technologies (ICSOFT 2006), organized by the Institute for Systems and Technologies of Information, Communication and Control (INSTICC) in cooperation with the Object Management Group (OMG). Hosted by the School of Business of the Polytechnic Institute of Setubal, the conference was sponsored by Enterprise Ireland and the Polytechnic Institute of Setúbal. The purpose of ICSOFT 2006 was to bring together researchers and

practitioners interested in information technology and software development. The conference tracks were “Software Engineering”, “Information Systems and Data Management”, “Programming Languages”, “Distributed and Parallel Systems” and “Knowledge Engineering.” Being crucial for the development of information systems, software and data technologies encompass a large number of research topics and applications: from implementation-related issues to more abstract theoretical

aspects of software engineering; from databases and data-warehouses to management information systems and knowledge-based systems; next to that, distributed systems, pervasive computing, data quality and other related topics are included in the scope of this conference. ICISOFT included in its program a panel to discuss the future of software development, composed by six distinguished world-class researchers. Furthermore, the conference program was enriched by a tutorial and six

keynote lectures. ICISOFT 2006 received 187 paper submissions from 39 countries in all continents. Software Process Dynamics and Agility Springer Science & Business Media Helps you ensure that your simulations are appropriate representations of real-world systems. The book concentrates on the differentiation between the assessment of a simulation tool and the verification and validation

of general software products. It is a systematic, procedural, practical guide that you can use to enhance the credibility of your simulation models. In addition, it is a valuable reference book and a road map for software developers and quality assurance experts, or as a text for simulation methodology and software engineering courses. This book details useful assessment procedures and phases, discusses

ways to tailor the methodology for specific situations and objectives, and provides numerous assessment aids. The reader can use these aids to support ongoing assessments over the entire life cycle of the model.

In 2 Volumes Springer
A Framework for
Managing, Measuring,
and Predicting Attributes
of Software Development
Products and Processes
Reflecting the immense
progress in the

development and use of software metrics in the past decades, *Software Metrics: A Rigorous and Practical Approach, Third Edition* provides an up-to-date, accessible, and comprehensive introduction to software metrics. Like its popular predecessors, this third edition discusses important issues, explains essential concepts, and offers new approaches for tackling long-standing problems. New to the Third Edition This edition

contains new material relevant to object-oriented design, design patterns, model-driven development, and agile development processes. It includes a new chapter on causal models and Bayesian networks and their application to software engineering. This edition also incorporates recent references to the latest software metrics activities, including research results, industrial case studies, and standards. Suitable for a

Range of Readers With numerous examples and exercises, this book continues to serve a wide audience. It can be used as a textbook for a software metrics and quality assurance course or as a useful supplement in any software engineering course. Practitioners will appreciate the important results that have previously only appeared in research-oriented publications. Researchers will welcome the material

on new results as well as the extensive bibliography of measurement-related information. The book also gives software managers and developers practical guidelines for selecting metrics and planning their use in a measurement program.

Handbook of Object Technology Springer
Software Quality Assurance in Large Scale and Complex Software-intensive Systems presents novel and high-quality research related approaches that relate the

quality of software architecture to system requirements, system architecture and enterprise-architecture, or software testing. Modern software has become complex and adaptable due to the emergence of globalization and new software technologies, devices and networks. These changes challenge both traditional software quality assurance techniques and software engineers to ensure software quality when building today (and tomorrow's) adaptive,

context-sensitive, and highly diverse applications. This edited volume presents state of the art techniques, methodologies, tools, best practices and guidelines for software quality assurance and offers guidance for future software engineering research and practice. Each contributed chapter considers the practical application of the topic through case studies, experiments, empirical validation, or systematic comparisons with other approaches already in practice. Topics of interest

include, but are not limited, to: quality attributes of system/software architectures; aligning enterprise, system, and software architecture from the point of view of total quality; design decisions and their influence on the quality of system/software architecture; methods and processes for evaluating architecture quality; quality assessment of legacy systems and third party applications; lessons learned and empirical validation of theories and frameworks on architectural quality;

empirical validation and testing for assessing architecture quality. Focused on quality assurance at all levels of software design and development Covers domain-specific software quality assurance issues e.g. for cloud, mobile, security, context-sensitive, mash-up and autonomic systems Explains likely trade-offs from design decisions in the context of complex software system engineering and quality assurance Includes practical case studies of software quality assurance for complex, adaptive and

context-critical systems
Conceptual Modeling - ER 2005 Springer
This book constitutes the refereed proceedings of workshops, held at the 29th International Conference on Conceptual Modeling, ER 2010, in Vancouver, Canada, in November 2010. The 31 revised full papers presented were carefully reviewed and selected from 82 submissions. The papers are organized in sections on the workshops

Semantic and Conceptual Issues in GIS (SeCoGIS); Conceptual Modeling of Life Sciences Applications (CMLSA); Conceptual Modelling of Services (CMS); Active Conceptual Modeling of Learning (ACM-L); Web Information Systems Modeling (WISM); Domain Engineering (DE@ER); and Foundations and Practices of UML (FP-UML).
A Rigorous and Practical Approach, Third Edition
Metrics for Software

Conceptual Models
Readership: Graduate students, researchers, programmers, managers and academics in software engineering and knowledge engineering. Key Features: There are no other handbooks in the market in this area. Keywords: *First International Conference, ICSoft 2006, Setúbal, Portugal, September 11-14, 2006, Revised Selected Papers* John Wiley & Sons Enterprise resource planning (ERP) is a class of integrated software that

uses software technologies to implement real-time management of business processes in an organization. ERPs normally cut across organizations, making them large and complex. Software researchers have for many years established that complexity affects software quality negatively and must therefore be controlled with novel metrics and models of evaluation that can determine when the

software is at acceptable levels of quality and when not. Metrics and Models for Evaluating the Quality and Effectiveness of ERP Software is a critical scholarly publication that examines ERP development, performance, and challenges in business settings to help improve decision making in organizations that have embraced ERPs, improve the efficiency and effectiveness of their activities, and improve

their return on investments (ROI). Highlighting a wide range of topics such as data mining, higher education, and security, this book is essential for professionals, software developers, researchers, academicians, and security professionals.

Integrating Quality

Assurance IGI Global

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.

Contents: Towards a Framework for Conceptual Modelling Quality (M Piattini et al.) A Proposal of

a Measure of Completeness for Conceptual Models (O Dieste et al.) Metrics for Use Cases: A Survey of Current Proposals (B Bernárdez et al.) Defining and Validating Metrics for UML Class Diagrams (M Genero et al.) Measuring OCL Expressions: An Approach Based on Cognitive Techniques (L Reynoso et al.) Metrics for Datawarehouses Conceptual Models (M Serrano et al.) Metrics for UML Statechart Diagrams

(J A Cruz-Lemus et al.) Metrics for Software Process Models (F García et al.) Readership: Senior undergraduates and graduate students in software engineering; PhD students, researchers, analysts, designers, software engineers and those responsible for quality and auditing. Key Features: Presents the most relevant existing proposals of metrics for conceptual models, covering conceptual models for both products

and processes Provides the most current bibliography on this subject The only book to focus on the quality aspects of conceptual models Keywords: Conceptual Model; Quality; Metrics; UML; OCL; Empirical Research *Model-Driven Software Development: Integrating Quality Assurance* World Scientific This book reviews the state-of-the-art and state-of-the-practice of modeling methods and methodologies in

information systems development. The book has sections on foundations of information modeling, extended object-oriented modeling and Web information systems modeling. Information Modeling in the New Millennium addresses the gap between technical and business-oriented modeling approaches by providing an integrative view of modeling different facets of ICT and organizations.

Software Metrics and

Software Metrology World Scientific

This book constitutes the refereed joint proceedings of seven international workshops held in conjunction with the 25th International Conference on Conceptual Modeling, ER 2006, in Tucson, AZ, USA in November 2006.

The 39 revised full papers presented together with the outlines of three tutorials were carefully reviewed and selected from 95 submissions.

From a Historical Perspective

towards the Future of Conceptual Modeling Springer Science & Business Media
The object oriented paradigm has become one of the dominant forces in the computing world. According to a recent survey, by the year 2000, more than 80% of development organizations are expected to use object technology as the basis for their distributed development strategies. Handbook of Object Technology encompasses the entire spectrum of disciplines and topics related to this rapidly expanding field - outlining emerging technologies, latest advances, current trends, new

specifications, and ongoing research. The handbook divides into 13 sections, each containing chapters related to that specific discipline. Up-to-date, non-abstract information provides the reader with practical, useful knowledge - directly applicable to the understanding and improvement of the reader's job or the area of interest related to this technology. Handbook of Object Technology discusses: the processes, notation, and tools for classical OO methodologies as well as information on future methodologies prevalent and emerging OO languages standards and specifications

frameworks and patterns
databases metrics business
objects intranets
analysis/design tools
client/server application
development environments
Software Metrics Springer
Science & Business Media
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 École
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.

[A Sustainable Evolution Strategy](#) CRC Press

This book focuses on software architecture and the value of architecture in the development of long-lived, mission-critical, trustworthy software-systems. The author introduces and demonstrates the powerful strategy of “Managed Evolution,” along with the engineering

best practice known as “Principle-based Architecting.” The book examines in detail architecture principles for e.g., Business Value, Changeability, Resilience, and Dependability. The author argues that the software development community has a strong responsibility to produce and operate useful, dependable, and trustworthy software. Software should at the same time provide business value and

guarantee many quality-of-service properties, including security, safety, performance, and integrity. As Dr. Furrer states, “Producing dependable software is a balancing act between investing in the implementation of business functionality and investing in the quality-of-service properties of the software-systems.” The book presents extensive coverage of such concepts as: Principle-Based Architecting Managed Evolution Strategy The

Future Principles for Business Value Legacy Software Modernization/Migration Architecture Principles for Changeability Architecture Principles for Resilience Architecture Principles for Dependability The text is supplemented with numerous figures, tables, examples and illustrative quotations. Future-Proof Software-Systems provides a set of good engineering practices, devised for integration into most software

development processes dedicated to the creation of software-systems that incorporate Managed Evolution.

Proceedings of the 5th International Conference on Frontiers in Intelligent Computing: Theory and Applications Springer Science & Business Media
improve modern software development approaches.
Conceptual Modeling - ER 2006 Springer Science & Business Media

Conceptual modeling represents a recent approach to creating knowledge. It has emerged in response to the computer revolution, which started in the middle of the 20th century. Computers, in the meantime, have become a major knowledge media. Conceptual modeling provides an answer to the difficulties experienced throughout the development of computer applications and aims at creating effective, reasonably priced, and sharable knowledge about using computers in business. Moreover, it has become evident that conceptual modeling has the potential to exceed the boundaries of business and computer usage. This state-of-the-art survey originates from the International Seminar on the Evolution of Conceptual Modeling, held in Dagstuhl Castle, Germany, in April 2008. The major objective of this seminar was to look into conceptual modeling from a historical perspective with a view towards the future of conceptual modeling and to achieve a better understanding of conceptual modeling issues in several different domains of discourse, going beyond individual (modeling) projects. The book contains 14 chapters. These were carefully selected during two rounds of reviewing and improvement from 26 presentations at the seminar and are preceded

by a detailed preface providing general insights into the field of conceptual modeling that are not necessarily discussed in any of the chapters but nevertheless aid in conceptualizing the inner structure and coherence of the field. The chapters are grouped into the following three thematic sections: the evolution of conceptual modeling techniques; the extension of conceptual modeling to a service-oriented, peer-to-peer, or Web context; and new

directions for conceptual modeling.
International Conferences IWSM 2009 and Mensura 2009 Amsterdam, The Netherlands, November 4-6, 2009. Proceedings John Wiley & Sons
This book constitutes the refereed proceedings of the 25th International Conference on Conceptual Modeling, ER 2006, held in Tucson, AZ, USA in November 2006. The 37 revised full papers presented together with two keynote talks, two panel session papers, six industrial papers, and five demo/posters papers were carefully reviewed and selected from

158 submissions.