Principles of Software Evolution:
5th International Workshop on Principles of Software Evolution (IWPSE 2002)

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ABSTRACT
We present an overview of the 5th International Workshop on Principles of Software Evolution (IWPSE 2002).

1. BACKGROUND AND MOTIVATION

The ever-changing business environment demands constant and rapid evolution of software. It is important that the research community provide solutions and insights that will improve the practice of software evolution.

Although a significant amount of work has been done, software evolution is still a challenging problem for both research and practice [1]. This is due to the inherent complexity of software and to the lack of theoretical foundation and empirical studies of software evolution.

The software evolution research deals with all aspects of software. To clarify the nature of software evolution, it is important to discuss the evolution from the wide range of perspectives, including both theory and practice.

While the software evolution and the software maintenance share some research topics, the software evolution emphasizes the changes of software systems triggered by the changes of requirements and/or surrounding environments.

2. EVOLUTION OF IWPSE

To provide a forum for the discussion of the theory and the experience of software evolution, the first International Workshop on Principles of Software Evolution (IWPSE '98) was held in

1998 in conjunction with ICSE '98 in Kyoto, Japan [2]. Since then, the workshop has been held annually: IWPSE '99 was held in Fukuoka, Japan [3], ISPSE 2000 was held in Kanazawa, Japan [4], and IWPSE 2001 was held in Vienna in conjunction with 8th ESEC/9th FSE. It drew 40 paper presentations from 18 countries [5].

3. THEME OF WORKSHOP

The 5th International Workshop on Principles of Software Evolution, IWPSE2002, is intended to discuss a wide range of topics of software evolution, foster the better understanding on the nature of software evolution, and promote the research on the software evolution as an emerging discipline in software engineering [6].

4. TOPICS

The major topics of the workshop include, but not limited to:

1) Theory of software evolution
2) Evolution of requirements and environments
3) Architecture for evolution and evolution of architecture
4) Software process for evolution and evolution of software process
5) Methodology for evolutional design and development
6) Validation and verification of evolution
7) Metrics and evaluation of evolution
8) Configuration and change management for evolution
9) Development support environment for evolutional design
10) Co-evolution of software and organization
11) Agile software development
12) Experience and lessons learned from evolutional software systems

Principles Of Software Evolution Proceedings

Raymond J. Madachy

Principles Of Software Evolution Proceedings:

    An Approach to Modelling Software Evolution Processes Tong Li,2009-03-15 An Approach to Modelling Software Evolution Processes describes formal software processes that effectively support software evolution The importance and popularity of software evolution increase as more and more successful software systems become legacy systems For one thing software evolution has become an important characteristic in the software life cycle for another software processes play an important role in increasing efficiency and quality of software evolution Therefore the software evolution process the inter discipline of software process and software evolution becomes a key area in software engineering The book is intended for software engineers and researchers in computer science Prof Tong Li earned his Ph D in Software Engineering at De Montfort University U K he has published five monographs and over one hundred papers   <u>Software Evolution and Feedback</u> Nazim H. Madhavji,Juan Fernandez-Ramil,Dewayne Perry,2006-08-30 Evolution of software has long been recognized as one of the most problematic and challenging areas in the field of software engineering as evidenced by the high often up to 60 80% life cycle costs attributed to this activity over the life of a software system Studies of software evolution are central to the understanding and practice of software development Yet it has received relatively little attention in the field of software engineering This book focuses on topics aimed at giving a scientific insight into the aspect of software evolution and feedback In summary the book covers conceptual phenomenological empirical technological and theoretical aspects of the field of software evolution with contributions from the leading experts This book delivers an up to date scientific understanding of what software evolution is to show why it is inevitable for real world applications and it demonstrates the role of feedback in software development and maintenance The book also addresses some of the phenomenological and technological underpinnings and includes rules and guidelines for increased software evolvability and in general sustainability of the evolution process Software Evolution and Feedback provides a long overdue scientific focus on software evolution and the role of feedback in the software process making this the indispensable guide for all software practitioners researchers and managers in the software industry   **Handbook of Software Fault Localization** W. Eric Wong,T.H. Tse,2023-04-21 Handbook of Software Fault Localization A comprehensive analysis of fault localization techniques and strategies In Handbook of Software Fault Localization Foundations and Advances distinguished computer scientists Prof W Eric Wong and Prof T H Tse deliver a robust treatment of up to date techniques tools and essential issues in software fault localization The authors offer collective discussions of fault localization strategies with an emphasis on the most important features of each approach The book also explores critical aspects of software fault localization like multiple bugs successful and failed test cases coincidental correctness faults introduced by missing code the combination of several fault localization techniques ties within fault localization rankings concurrency bugs spreadsheet fault localization and theoretical studies on fault localization Readers will benefit from the authors straightforward discussions of how to apply cost effective techniques

to a variety of specific environments common in the real world They will also enjoy the in depth explorations of recent research directions on this topic Handbook of Software Fault Localization also includes A thorough introduction to the concepts of software testing and debugging their importance typical challenges and the consequences of poor efforts Comprehensive explorations of traditional fault localization techniques including program logging assertions and breakpoints Practical discussions of slicing based program spectrum based and statistics based techniques In depth examinations of machine learning data mining and model based techniques for software fault localization Perfect for researchers professors and students studying and working in the field Handbook of Software Fault Localization Foundations and Advances is also an indispensable resource for software engineers managers and software project decision makers responsible for schedule and budget control **Handbook of Software Engineering** Sungdeok Cha,Richard N. Taylor,Kyochul Kang,2019-02-11 This handbook provides a unique and in depth survey of the current state of the art in software engineering covering its major topics the conceptual genealogy of each subfield and discussing future research directions Subjects include foundational areas of software engineering e g software processes requirements engineering software architecture software testing formal methods software maintenance as well as emerging areas e g self adaptive systems software engineering in the cloud coordination technology Each chapter includes an introduction to central concepts and principles a guided tour of seminal papers and key contributions and promising future research directions The authors of the individual chapters are all acknowledged experts in their field and include many who have pioneered the techniques and technologies discussed Readers will find an authoritative and concise review of each subject and will also learn how software engineering technologies have evolved and are likely to develop in the years to come This book will be especially useful for researchers who are new to software engineering and for practitioners seeking to enhance their skills and knowledge *Business Process Technology* Dirk Draheim,2010-08-09 Currently we see a variety of tools and techniques for specifying and implementing business processes The problem is that there are still gaps and tensions between the different disciplines needed to improve business process execution and improvement in enterprises Business process modeling workflow execution and application programming are examples of disciplines that are hosted by different communities and that emerged separately from each other In particular concepts have not yet been fully elaborated at the system analysis level Therefore practitioners are faced again and again with similar questions in concrete business process projects Which decomposition mechanism to use How to find the correct granularity for business process activities Which implementing technology is the optimal one in a given situation This work offers an approach to the systematization of the field The methodology used is explicitly not a comparative analysis of existing tools and techniques although a review of existing tools is an essential basis for the considerations in the book Rather the book tries to provide a landscape of rationales and concepts in business processes with a discussion of alternatives Software Process Dynamics Raymond J.

Madachy,2008-01-07 This book is designed for professionals and students in software engineering or information technology who are interested in understanding the dynamics of software development in order to assess and optimize their own process strategies It explains how simulation of interrelated technical and social factors can provide a means for organizations to vastly improve their processes It is structured for readers to approach the subject from different perspectives and includes descriptive summaries of the best research and applications **Trustworthy Software Development Processes** Qing Wang,Vahid Garousi,Raymond Madachy,Dietmar Pfahl,2009-04-23 This book constitutes the refereed proceedings of the Third International Conference on Software Process held in Vancouver Canada in May 2009 colocated with ICSE 2009 the 31st International Conference on Software Engineering The 33 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 96 submissions The papers are organized in topical sections on process management process tools process analysis process simulation modeling experience report process metrics and process modeling and representation **Software Process Modeling** Silvia T. Acuna,Natalia Juristo,2006-01-27 Software Process Modeling brings together experts to discuss relevant results in software process modeling and expresses their personal view of this field This book focuses on new aspects of software process modeling Specifically it deals with socio technological aspects process modeling for new development types open source software dependability applications etc and organization change management The computer audience is placing growing demands on the software industry today Consumers are looking for more complex products that are at the same time easier to use Software developer organizations are expected to produce higher quality products and deliver them to the public faster In so doing however globally distributed development teams have to cope with understaffing and changing technologies The challenges for the software industry are apparently mounting Over the years a variety of software process models have been designed to structure describe and prescribe the software systems construction process Most recently software process modeling is increasingly dealing with new challenges raised by the tests that the software industry has to stand Software Process Modeling is designed for a professional audience of researchers and practitioners in industry The book is also suitable for graduate level students in computer science

Empirical Research towards a Relevance Assessment of Software Clones Saman Bazrafshan,2017-06-30 Redundancies in program source code software clones are a common phenomenon Although it is often claimed that software clones decrease the maintainability of software systems and need to be managed research in the last couple of years showed that not all clones can be considered harmful A sophisticated assessment of the relevance of software clones and a cost benefit analysis of clone management is needed to gain a better understanding of cloning and whether it is truly a harmful phenomenon This thesis introduces techniques to model analyze and evaluate versatile aspects of software clone evolution within the history of a system We present a mapping of non identical clones across multiple versions of a system that avoids possible ambiguities of previous approaches Though processing more data to determine the context of each clone to avoid an ambiguous mapping

the approach is shown to be efficient and applicable to large systems for a retrospective analysis of software clone evolution The approach has been used in several studies to gain insights into the phenomenon of cloning in open source as well as industrial software systems Our results show that non identical clones require more attention regarding clone management compared to identical clones as they are the dominating clone type for the main share of our subject systems Using the evolution model to investigate costs and benefits of refactorings that remove clones we conclude that clone removals could not reduce maintenance costs for most systems under study *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

The Art and Science of Analyzing Software Data Christian Bird,Tim Menzies,Thomas Zimmermann,2015-09-02 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 **Computer Systems and Software Engineering: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2017-12-01 Professionals in the interdisciplinary field of computer science focus on the design operation and maintenance of computational systems and software Methodologies and tools of engineering are utilized alongside computer applications to develop efficient and precise information databases Computer Systems and Software Engineering Concepts Methodologies Tools and Applications is a comprehensive reference source for the latest scholarly material on trends techniques and uses of various technology applications and examines the benefits and challenges of these computational developments Highlighting a range of

pertinent topics such as utility computing computer security and information systems applications this multi volume book is ideally designed for academicians researchers students web designers software developers and practitioners interested in computer systems and software engineering   Information Technology and Innovation Trends in Organizations Alessandro D'Atri,Maria Ferrara,Joey F. George,Paolo Spagnoletti,2011-07-07 The book examines a wide range of issues that characterize the current IT based innovation trends in organisations It contains a collection of research papers focusing on themes of growing interest in the field of Information System Organization Studies and Management The book offers a multi disciplinary view on Information Systems aiming to disseminate academic knowledge It might be particularly relevant to IT practitioners such as information systems managers business managers and IT consultants The volume is divided into XIV sections each one focusing on a specific theme A preface written by Joey George president of the Association for Information Systems opens the text The content of each section is based on a selection of the best papers original double blind peer reviewed contributions presented at the annual conference of the Italian chapter of AIS which has been held in Naples Italy on October 2010   *Views on Evolvability of Embedded Systems* Pierre Van de Laar,Teade Punter,2010-10-20 Evolvability the ability to respond effectively to change represents a major challenge to today s high end embedded systems such as those developed in the medical domain by Philips Healthcare These systems are typically developed by multi disciplinary teams located around the world and are in constant need of upgrading to provide new advanced features to deal with obsolescence and to exploit emerging enabling technologies Despite the importance of evolvability for these types of systems the field has received scant attention from the scientific and engineering communities Views on Evolvability of Embedded Systems focuses on the topic of evolvability of embedded systems from an applied scientific perspective In particular the book describes results from the Darwin project that researched evolvability in the context of Magnetic Resonance Imaging MRI systems This project applied the Industry as Laboratory paradigm in which industry and academia join forces to ensure continuous knowledge and technology transfer during the project s lifetime The Darwin project was a collaboration between the Embedded Systems Institute the MRI business unit of Philips Healthcare Philips Research and five Dutch universities Evolvability was addressed from a system engineering perspective by a number of researchers from different disciplines such as software electrical and mechanical engineering with a clear focus on economic decision making The research focused on four areas data mining reference architectures mechanisms and patterns for evolvability in particular visualization they will not only find a state of the art overview on evolvability research but also guidelines to make systems more evolvable and new industrially validated techniques to improve the evolvability of embedded systems   **Computational Intelligence and Its Applications** Abdelmalek Amine,Malek Mouhoub,Otmane Ait Mohamed,Bachir Djebbar,2018-04-26 This book constitutes the refereed proceedings of the 6th IFIP TC 5 International Conference on Computational Intelligence and Its Applications CIIA 2018 held in Oran Algeria in May 2018 The 56 full papers presented were carefully reviewed and selected from 202

submissions They are organized in the following topical sections data mining and information retrieval evolutionary computation machine learning optimization planning and scheduling wireless communication and mobile computing Internet of Things IoT and decision support systems pattern recognition and image processing and semantic web services

Handbook of Software Engineering and Knowledge Engineering Shi Kuo Chang,2001 This is the first handbook to cover comprehensively both software engineering and knowledge engineering OCo two important fields that have become interwoven in recent years Over 60 international experts have contributed to the book Each chapter has been written in such a way that a practitioner of software engineering and knowledge engineering can easily understand and obtain useful information Each chapter covers one topic and can be read independently of other chapters providing both a general survey of the topic and an in depth exposition of the state of the art Practitioners will find this handbook useful when looking for solutions to practical problems Researchers can use it for quick access to the background current trends and most important references regarding a certain topic The handbook consists of two volumes Volume One covers the basic principles and applications of software engineering and knowledge engineering Volume Two will cover the basic principles and applications of visual and multimedia software engineering knowledge engineering data mining for software knowledge and emerging topics in software engineering and knowledge engineering Sample Chapter s Chapter 1 1 Introduction 97k Chapter 1 2 Theoretical Language Research 97k Chapter 1 3 Experimental Science 96k Chapter 1 4 Evolutionary Versus Revolutionary 108k Chapter 1 5 Concurrency and Parallelisms 232k Chapter 1 6 Summary 123k Contents Computer Language Advances D E Cooke et al Software Maintenance G Canfora Requirements Engineering A T Berztiss Software Engineering Standards Review and Perspectives Y X Wang A Large Scale Neural Network and Its Applications D Graupe Software Configuration Management in Software and Hypermedia Engineering A Survey L Bendix et al The Knowledge Modeling Paradigm in Knowledge Engineering E Motta Software Engineering and Knowledge Engineering Issues in Bioinformatics J T L Wang et al Conceptual Modeling in Software Engineering and Knowledge Engineering Concepts Techniques and Trends O Dieste et al Rationale Management in Software Engineering A H Dutoit Exploring Ontologies Y Kalfoglou and other papers Readership Graduate students researchers programmers managers and academics in software engineering and knowledge engineering

Handbook of Software Engineering & Knowledge Engineering: Fundamentals Shi Kuo Chang,2001 This is the first handbook to cover comprehensively both software engineering and knowledge engineering two important fields that have become interwoven in recent years Over 60 international experts have contributed to the book Each chapter has been written in such a way that a practitioner of software engineering and knowledge engineering can easily understand and obtain useful information Each chapter covers one topic and can be read independently of other chapters providing both a general survey of the topic and an in depth exposition of the state of the art Practitioners will find this handbook useful when looking for solutions to practical problems Researchers can use it for quick access to the background current trends and

most important references regarding a certain topic The handbook consists of two volumes Volume One covers the basic principles and applications of software engineering and knowledge engineering Volume Two will cover the basic principles and applications of visual and multimedia software engineering knowledge engineering data mining for software knowledge and emerging topics in software engineering and knowledge engineering **Security-Aware Systems Applications and Software Development Methods** Khan, Khaled M.,2012-05-31 With the prevalence of cyber crime and cyber warfare software developers must be vigilant in creating systems which are impervious to cyber attacks Thus security issues are an integral part of every phase of software development and an essential component of software design Security Aware Systems Applications and Software Development Methods facilitates the promotion and understanding of the technical as well as managerial issues related to secure software systems and their development practices This book targeted toward researchers software engineers and field experts outlines cutting edge industry solutions in software engineering and security research to help overcome contemporary challenges **Designing, Engineering, and Analyzing Reliable and Efficient Software** Singh, Hardeep,2013-02-28 Due to the role of software systems in safety critical applications and in the satisfaction of customers and organizations the development of efficient software engineering is essential Designing Engineering and Analyzing Reliable and Efficient Software discusses and analyzes various designs systems and advancements in software engineering With its coverage on the integration of mathematics computer science and practices in engineering this book highlights the importance of ensuring and maintaining reliable software and is an essential resource for practitioners professors and students in these fields of study **Managing Networks of Creativity** Fiorenza Belussi,UDO HERMANN STABER,2012-02-27 The aim of the Managing Networks of Creativity is to improve our understanding of creativity and the management of creativity as discussed in the fields of management including strategic management organization science organizational behaviour and entrepreneurship economics sociology regional studies and political science While research on creativity has made several important contributions to the theoretical literature little attention has been paid to the development and testing of formal theoretical models especially in those cases where creativity is the result not so much of individual behaviour than the outcome of collective efforts connecting individuals in organizations social networks projects geographic clusters and so forth The proposed volume includes studies both conceptual and empirical which as a whole deconstruct the concept of creativity and the management of creativity by identifying specific situations contexts firms clusters and districts in which creative processes evolve The reader is provided with in depth discussions of theoretical issues and a range of descriptive cases and survey data that the authors use to explore or test concepts and models Overall the volume aims to integrate current debates concerning the role of creativity and innovation in economic and social development

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