Object oriented technology ecoop 2001 workshop reader (Read Only)

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 this book documents the satellite events run around the 15th european conference on object oriented programming ecoop 2001 held in budapest hungary in june 2001 this book presents 17 value adding workshop reports and the documentation
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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 this book contains the final reports of 19 workshops held during the 20th european conference on object oriented programming ecoop 2006 held in nantes france in july 2006 the 19 reports cover the entire range of object technology and related topics presenting a coherent and highly representative snapshot of the major trends in the field this book constitutes the thoroughly refereed post proceedings of the metainformatics symposium mis 2003 held in graz austria in september 2003 the 17 revised papers presented were carefully reviewed and selected for inclusion in the book the topics addressed span the entire range from theoretical considerations of important metainformatics related questions and issues to practical descriptions of approaches and systems that offer assistance in their resolution this book constitutes the refereed proceedings of the 16th european conference on object oriented programming ecoop 2002 held in malaga spain in june 2002 the 24 revised full papers presented together with one full invited paper were carefully reviewed and selected from 96 submissions the book offers topical sections on aspect oriented software development java virtual machines distributed systems patterns and architectures languages optimization theory and formal techniques and miscellaneous this volume constitutes the proceedings of the rst acm sigplan sigsoft international conference
on generative programming and component engineering gpce 2002 held october 6 8 2002 in pittsburgh pa usa as part of the pli 2002 event which also included icfp ppdp and a liated workshops the future of software engineering lies in the automation of tasks that are performed manually today generative programming developing programs that synthesize other programs component engineering raising the level of mo larization and analysis in application design and domain speci c languages elevating program speci cations to compact domain speci c notations that are easier to write and maintain are key technologies for automating program de lopment in a time of conference and workshop proliferation gpce represents a counter trend in the merging of two distinct communities with strongly ov lapping interests the generative and component based software engineering conference gcse and the international workshop on the semantics app cations and implementation of program generation saig researchers in the gcse community address the topic of program automation from a contemporary software engineering viewpoint saig correspondingly represents a community attacking automation from a more formal programming languages viewpoint together their combination provides the depth of theory and practice that one would expect in a premier research conference three prominent pli invited speakers lectured at gpce 2002 neil jones university of copenhagen catuscia palamidessi penn state university and janos sztipanovits vanderbilt university gpce 2002 received 39 submissions of which 18 were accepted this book constitutes the refereed proceedings of the ifip acm international conference on distributed systems platforms middleware 2001 held in heidelberg germany in november 2001 the 20 revised full papers presented were carefully reviewed and selected from a total of 116 submissions the papers are organized in topical sections on java mobility distributed abstractions reliability home and office scalability and quality of service the inaugural information security practice and experience conference ispec was held on april 11 14 2005 in singapore as applications of information security technologies become pervasive sues pertaining to their deployment and operation are becoming increasingly
important ispec is intended to be an annual conference that brings together researchers and practitioners to provide a con uence of new information security technologies their applications and their integration with it systems in various vertical sectors the program committee consisted of leading experts in the areas of information security information systems and domain experts in applications of it in vertical business segments the topics of the conference covered security applications and case studies access control network security data security secure architectures and cryp graphic techniques emphasis was placed on the application of security research to meet practical user requirements both in the paper selection process and in the invited speeches acceptance into the conference proceedings was very competitive the call for papers attracted more than 120 submissions out of which the program committee selected only 35 papers for inclusion in the proceedings thisconferencewasmade possibileonlythroughthecontributionsfrommany individuals and organizations we would like to thank all the authors who s mitted papers we also gratefully acknowledge the members of the program committee and the external reviewers for the time and e ort they put into reviewing the submissions special thanks are due to ying qiu for managing the website for paper s mission reviewandnoti cation patricia lohwas kindenoughto arrange for the conference venue and took care of the administration in running the conference 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 ifip8 1 workshop on conceptual modelling approaches to mobile formation systems development mobimod 2002 international workshop on conceptual modeling quality iwcmq 2002 3rd international joint workshop on conceptual modeling approaches for e business a service perspective ecomo 2002 er 2002 was organized so that there would be no overlap between the c ference
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.


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. Nowadays developers have to face the proliferation of hardware and software environments, the increasing demands of the users, the growing number of programs, and the sharing of information, competences, and services. Thanks to the generalization of databases and communication networks, a program is no longer a monolithic entity conceived, produced, and nalized before being used. A program is now seen as an open and adaptive frame which, for example, can dynamically incorporate services not foreseen by the initial designer. These new needs call for new control structures and program interactions.

Unconventional approaches to programming have long been developed in various niches and constitute a reservoir of alternative ways to face the programming languages crisis. New models of programming, e.g., bio-inspired computing, traditional chemistry, amorphous computing, are also currently experiencing a renewed period of growth as they face specific needs and new application mains. These approaches provide new abstractions and notations or develop new ways of interacting with programs. They are implemented by embedding new sophisticated data structures in a classical programming model and by extending an existing language with new constructs to handle concurrency.
environments by conceiving new software life cycles and program executions aspect weaving run time compilation or by relying on an entire new paradigm to specify a computation they are inspired by theoretical considerations e.g., topological algebraic or logical foundations driven by the domain at hand domain specific languages like PostScript, musical notation, animation, signal processing, etc., or by metaphors taken from various areas such as quantum computing, computing with molecules, information processing in biological tissues, problem solving from nature, ethological and social modeling. This book defines the parameters of the emerging business strategy of mass customization covering the main categories in a systematic examination of manufacturing systems and mass customization, supply chain management, and mass customization and information systems. The book provides a conceptual framework for mass customization, its solutions, and real-world examples of successful implementations of the business strategy. This book contains the refereed proceedings of the 1st IFIP TC6 Working Conference on Wireless on Demand Network Systems (WONS 2004). It was sponsored by the IFIP working groups 6.3 (Performance of Computer and Communication Networks) and 6.8 (Mobile and Wireless Communications) and aimed at becoming a premier international forum for discussions between researchers and practitioners interested in the evolution of wireless internet access toward on-demand networking. Ad-hoc routing, localization, resource management, security, applications, performance, and analytical models were topics covered in depth by technical papers in this book. The conference received 77 submissions from 22 countries, showing widespread interest with so many papers to choose from. The technical program committee's job providing a conference program with the highest quality was challenging and time-consuming. We finally selected 25 full papers for presentation in the conference technical sessions. To give researchers the opportunity to present the novel ideas they are starting to explore, we included in the technical program a poster session devoted to presenting preliminary research results. Seven short papers were selected for presentation in this session. Accepted papers and posters came from 15
different countries the technical program also included a keynote speech ad hoc wireless networks protocols and applications by prof mario gerla and a panel s sion devoted to the discussion of the conference topics between academics and industry representatives this event would not have been possible without the enthusiasm and hard work of a number of colleagues a special thanks to the tpc members and all the referees for their invaluable help in reviewing the papers for wons 2004 there is substantial interest in research in developing countries especially in the use implementation and development of information technology and systems many researchers have been moving toward an understanding of indigenous social and cultural structures and how they influence the use and development of information systems e commerce and cultural values addresses these issues and brings together scholars to share their expertise on different aspects of the social side of e commerce and information systems and how they impact the cultural values of a society this journal is devoted to aspect oriented software development aosd techniques in the context of all phases of the software life cycle from requirements and design to implementation maintenance and evolution the focus of the journal is on approaches for systematic identification modularization representation and composition of crosscutting concerns evaluation of such approaches and their impact on improving quality attributes of software systems this book constitutes the thoroughly refereed post proceedings of the international workshop on construction and analysis of safe secure and interoperable smart devices cassis 2004 held in marseille france in march 2004 the 13 revised full papers presented were carefully selected during two rounds of reviewing and improvement the papers are devoted to trends in smart card research operating systems and virtual machine technologies secure platforms security application validation verification and formal modeling and formal methods for more and more systems software has moved from a peripheral to a central role replacing mechanical parts and hardware and giving the product a competitive edge consequences of this trend are an increase in the size of software systems the variability in software artifacts and the importance of
software in achieving the system level properties software architecture provides the necessary abstractions for managing the resulting complexity we here introduce the third working ieeelfip conference on software architecture wicsa3 that it is already the third such conference is in itself a clear indication that software architecture continues to be an important topic in industrial software development and in software engineering research however becoming an established field does not mean that software architecture provides less opportunity for innovation and new directions on the contrary one can identify a number of interesting trends within software architecture research the first trend is that the role of the software architecture in all phases of software development is more explicitly recognized whereas initially software architecture was primarily associated with the architecture design phase we now see that the software architecture is treated explicitly during development product derivation in software product lines at run time and during system evolution software architecture as an artifact has been decoupled from a particular lifecycle phase this book constitutes the thoroughly refereed post proceedings of the international workshop on services e business and the semantic wes 2002 held in toronto canada in may 2002 in conjunction with caise 2002 the 18 revised full papers presented together with two keynote papers were carefully selected and improved during two rounds of reviewing and revision the papers are organized in topical sections on web services e business and e services and the semantic web this book constitutes the refereed proceedings of the advanced workshop on content computing awcc 2004 held in zhen jiang jiang su china in november 2004 the 26 revised full papers and 36 revised short papers presented were carefully reviewed and selected from 194 submissions the papers are organized in topical sections on mobile code and agent technology content sharing and consistency management networking infrastructure and performance content aware security multimedia content content mining and knowledge extraction services and content applications content retrieval and management and ontologies and knowledge conceptualization written by the authors of the
common warehouse metamodel cwm specification this book is the official and authoritiativedeveloper s guide provides a comprehensive look at how to develop database and data warehouse applications using the common warehousemetamodel covers the full development lifecycle including applicationdesign implementation and deployment companion site includes updates on the technology descriptions of tools and links to vendor sites this book constitutes the refereed proceedings of the third international conference on generative and component based software engineering gcse 2001 held in erfurt germany in september 2001 the 14 revised full papers presented together with one invited paper were carefully reviewed and selected from 43 submissions the papers are organized in topical sections on software product lines aspects generic and generative approaches and components and architectures this book constitutes the refereed proceedings of the 4th international workshop on technologies for e services tes 2003 held in berlin germany in september 2003 in conjunction with vldb 2003 the 16 revised full papers presented were carefully reviewed and selected for inclusion in the book among the topics addressed are current issues on various aspects of e services in particular services service composition service aggregation service integration cooperative process control business process modeling daml s scalable services context aware services and location based services five years on from its adoption in 1997 by the object management group omg the uni ed modeling language is the de facto standard for creating agrammatic models of software systems more than 100 books have been written about uml and it is taught to students throughout the world the de nition of uml version 2 is well under way and should be largely completed within the year this will not only improve and enhance uml itself including standard facilities for diagram interchange but also make it fully integrated with other modeling technologies from the omg such as meta object facility mof and xml metadata interchange xmi the object constraint language which has become an important vehicle for communicating detailed insights between uml researchers and practitioners will have a much expanded speci cation and be better integrated
with the uml the popularity of uml signifies the possibility of a shift of immense proportions in the practice of software development at least comparable to the shift from the use of assembly language to third generation or high level programming languages we dream of describing the behavior of software systems in terms of models closely related to the needs of the enterprise being served and being able to routinely translate these models automatically into executing programs on distributed computing systems the omg is promoting model driven architecture mda as a significant step towards this vision and the mda concept has received considerable support within the it industry this book includes discussion on advance computer technologies such as cloud computing grid computing and service computing in addition it furthers the theory and technology of grid technologies that is used in manufacturing and accelerates the development of service oriented manufacturing this book gathers the proceedings of the 2nd international conference on advanced intelligent systems and informatics aisi2016 which took place in cairo egypt during october 24-26 2016 this international interdisciplinary conference which highlighted essential research and developments in the field of informatics and intelligent systems was organized by the scientific research group in egypt srge and sponsored by the ieee computational intelligence society egypt chapter and the ieee robotics and automation society egypt chapter the book's content is divided into four main sections intelligent language processing intelligent systems intelligent robotics systems and informatics this book constitutes the refereed proceedings of the second international conference on pattern recognition and machine intelligence premi 2007 held in kolkata india in december 2007 the papers are organized in topical sections on pattern recognition image analysis soft computing and applications data mining and knowledge discovery bioinformatics signal and speech processing document analysis and text mining biometrics and video analysis this book constitutes the refereed proceedings of the 23rd international conference on advanced information systems engineering caise 2011 held in london uk in june 2011 the 42 revised full papers and 5 revised short papers presented were
carefully reviewed and selected from 320 submissions in addition the book contains the abstracts of 2 keynote speeches the contributions are organized in topical sections on requirements adaptation and evolution model transformation conceptual design domain specific languages case studies and experiences mining and matching business process modelling validation and quality and service and management find out how the exciting new developments towards 4g mobile services and technologies will put the user at centre stage towards 4g technologies provides a comprehensive explanation of future networking and service delivering technologies for next generation mobile systems the authors explain how personalization mobile middleware peer to peer services semantic computing and content awareness fit into this new concept and why they will become a necessity for future mobile services the book presents the latest challenges and opportunities of next generation mobile systems explaining new paradigms of service provisioning that include flexible and adaptable services towards 4g technologies gives a comprehensive description of future networking and service delivering technologies covers hot topics such as intelligent user profiling proactive service selection context aware service provisioning and ubiquitous computing introduces seemingly diverse technologies to show how they will play together to create a new user experience includes case studies to illustrate the theory this invaluable guide will provide telecoms engineers in r d departments ctos and telecoms managers as well as academic researchers in electrical electronic engineering and telecommunications with a comprehensive understanding of next generation mobile system technologies and services component based software development cbd is an emerging discipline that promises to take software engineering into a new era building on the achievements of object oriented software construction cbd aims to deliver software engineering from a cottage industry into an industrial age for information technology wherein software can be assembled from components in the manner that hardware systems are currently constructed from kits of parts this volume provides a survey of the current state of cbd as reflected by
activities that have been taking place recently under the banner of cbd with a view to giving pointers to future trends the contributions report case studies self contained fixed term investigations with a finite set of clearly defined objectives and measurable outcomes on a sample of the myriad aspects of cbd the book includes chapters dealing with cots commercial off the shelf components methodologies for cbd compositionality i.e. how to calculate or predict properties of a composite from those of its constituents component software testing and grid computing this book constitutes the refereed proceedings of the 6th international conference on data management in grid and peer to peer systems globe 2013 held in prague czech republic in august 2013 in conjunction with dexa 2013 the 10 revised full papers presented were carefully reviewed and selected from 19 submissions the papers are organized in the following topical sections data partitioning and consistency rdf data publishing querying linked data and applications and distributed storage systems and virtualization welcome to the post proceedings of the first international conference on embedded software and systems ices 2004 which was held in hangzhou p r china 9 10 december 2004 embedded software and systems technology is of increasing importance for a wide range of industrial areas such as aerospace automotive telecommunication and manufacturing automation embedded technology is playing an increasingly dominant role in modern society this is a natural outcome of amazingly fast developments in the embedded field the ices 2004 conference brought together researchers and developers from academia industry and government to advance the science engineering and technology in embedded software and systems development and provided them with a forum to present and exchange their ideas results work in progress and experience in all areas of embedded systems research and development the ices 2004 conference attracted much more interest than expected the total number of paper submissions to the main conference and its three workshops namely pervasive computing automobile electronics and telecommunication was almost 400 from nearly 20 countries and regions all submissions were reviewed by at
least three program or technical committee members or external reviewers it was extremely difficult to make the final decision on paper acceptance because there were so many excellent foreseeing and interesting submissions with brilliant ideas the six papers collected here from the journal devoted to all facets of aspect oriented software development aods techniques includes three submitted through the regular channels and three that focus on the area of aspects dependencies and interactions this tutorial book presents an augmented selection of material presented at the international summer school on generative and transformational techniques in software engineering gttse 2005 the book comprises 7 tutorial lectures presented together with 8 technology presentations and 6 contributions to the participants workshop the tutorials combine foundations methods examples and tool support subjects covered include feature oriented programming and the ahead tool suite program transformation with reflection and aspect oriented programming and more this book constitutes the refereed proceedings of the 9th international conference on model driven engineering languages and systems formerly uml conferences models 2006 the book presents 51 revised full papers and 2 invited papers discussion is organized in topical sections on evaluating uml mda in software development concrete syntax applying uml to interaction and coordination aspects model integration formal semantics of uml security model transformation tools and implementation and more the documentation is missing or obsolete and the original developers have departed your team has limited understanding of the system and unit tests are missing for many if not all of the components when you fix a bug in one place another bug pops up somewhere else in the system long rebuild times make any change difficult all of these are signs of software that is close to the breaking point many systems can be upgraded or simply thrown away if they no longer serve their purpose legacy software however is crucial for operations and needs to be continually available and upgraded how can you reduce the complexity of a legacy system sufficiently so that it can continue to be used and adapted at acceptable cost based on the authors industrial experiences this book is a
guide on how to reverse engineer legacy systems to understand their problems and then reengineer those systems to meet new demands. Patterns are used to clarify and explain the process of understanding large code bases hence transforming them to meet new requirements. The key insight is that the right design and organization of your system is not something that can be evident from the initial requirements alone but rather as a consequence of understanding how these requirements evolve. Describes how to reverse engineer a monolithic system to understand how it really works and how to identify potential problems. Includes reengineering patterns that tackle well-known reengineering techniques often encountered in object-oriented programming such as introducing polymorphism, factoring out common behavior, detecting duplicated code, and understanding design. Shows how to build a culture of continuous reengineering for achieving flexible and maintainable object-oriented systems.

Object-Oriented Technology: ECOOP 2001 Workshop Reader 2003-08-01 for the fth time in its history in cooperation with Springer-Verlag, the European Conference on Object-Oriented Programming (ECOOP) Conference series is glad to offer the object-oriented research community the ECOOP 2001 workshop reader—a compendium 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 and affiliations.
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 2002 this book documents the satellite events run around the 15th European conference on object-oriented programming ECOOP 2001 held in Budapest, Hungary in June 2001. This book presents 17 value-adding workshop reports and the documentation of a panel and the posters all in all the book offers a comprehensive and thought-provoking snapshot of the current research in object-oriented technology ranging from theoretical and foundational issues to applications in various domains.

Object-Oriented Technology. ECOOP 2001 Workshop Reader 2009-09-02 for the fifth time in its history in cooperation with Springer Verlag, the European Conference on Object-Oriented Programming (ECOOP) conference series is glad to offer the object-oriented research community the ECOOP 2001 workshop reader—a compendium 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 first 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 various approaches and giving a summary of the debates. They also include the list of participants, affiliations, 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 2002 Workshop Reader 2003-07-01 ecoop 2002 workshop reader

Object-Oriented Technology. ECOOP 2003 Workshop Reader 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 first two days of the conference. They cover a wide range of interesting and innovative topics in object-oriented technology and offered the participants an opportunity for interaction and lively discussion. Twenty-one workshops were selected from a total of 24 submissions based on their scientific 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 Objet) in cooperation with ACM SIGPLAN. The proceedings of the main conference were published as LNCS 2743.

Object-Oriented Technology. ECOOP 2006 Workshop Reader 2007-06-28 this book contains the final reports of 19 workshops held during the 20th European Conference on Object-oriented Programming ECOOP 2006 held in Nantes, France in July 2006. The 19 reports cover the entire range of object technology and related topics, presenting a coherent and highly representative snapshot of the major trends in the field.

Metainformatics 2004-04-29 this book constitutes the thoroughly refereed post-proceedings of the Metainformatics Symposium MIS 2003 held in Graz, Austria in September 2003. The 17 revised papers presented...
were carefully reviewed and selected for inclusion in the book the topics addressed span the entire range from theoretical considerations of important metainformatics related questions and issues to practical descriptions of approaches and systems that offer assistance in their resolution

**ECOOP 2002 - Object-Oriented Programming** 2003-08-02 this book constitutes the refereed proceedings of the 16th european conference on object oriented programming ecoop 2002 held in malaga spain in june 2002 the 24 revised full papers presented together with one full invited paper were carefully reviewed and selected from 96 submissions the book offers topical sections on aspect oriented software development java virtual machines distributed systems patterns and architectures languages optimization theory and formal techniques and miscellaneous

**Generative Programming and Component Engineering** 2003-06-30 this volume constitutes the proceedings of the rst acm sigplan sigsoft international conference on generative programming and component engineering gpce 2002 held october 6 8 2002 in pittsburgh pa usa as part of the pli 2002 event which also included icfp ppdp and a liated workshops the future of software engineering lies in the automation of tasks that are performed manually today generative programming developing programs that synthesize other programs component engineering raising the level of modularization and analysis in application design and domain specific languages elevating program specifications to compact domain specific notations that are easier to write and maintain are key technologies for automating program development in a time of conference and workshop proliferation gpce represents a counter trend in the merging of two distinct communities with strongly overlapping interests the generative and component based software engineering conference gcse and the international workshop on the semantics applications and implementation of program generation saig researchers in the gcse community address the topic of program automation from a contemporary software engineering viewpoint saig correspondingly represents a community attacking automation from a more formal programming languages viewpoint together their combination provides the depth of theory and
practice that one would expect in a premier research conference three prominent pli invited speakers lectured at gpce 2002 neil jones university of copenhagen catuscia palamidessi penn state university and janos sztipanovits vanderbilt university gpce 2002 received 39 submissions of which 18 were accepted

Middleware 2001 2007-11-22 this book constitutes the refereed proceedings of the ifip acm international conference on distributed systems platforms middleware 2001 held in heidelberg germany in november 2001 the 20 revised full papers presented were carefully reviewed and selected from a total of 116 submissions the papers are organized in topical sections on java mobility distributed abstractions reliability home and office scalability and quality of service

Information Security Practice and Experience 2005-03-31 the inaugural information security practice and experience conference ispec was held on april 11 14 2005 in singapore as applications of information security technologies become pervasive sues pertaining to their deployment and operation are becoming increasingly important ispec is intended to be an annual conference that brings together researchers and practitioners to provide a convience of new information security technologies their applications and their integration with it systems in various vertical sectors the program committee consisted of leading experts in the areas of information security information systems and domain experts in applications of it in vertical business segments the topics of the conference covered security applications and case studies access control network security data security secure architectures and cryptographic techniques emphasis was placed on the application of security research to meet practical user requirements both in the paper selection process and in the invited speeches acceptance into the conference proceedings was very competitive the call for papers attracted more than 120 submissions out of which the program committee selected only 35 papers for inclusion in the proceedings thisconferencewasmadepossibleonlythroughthecontributionsfrommany individuals and organizations we would like to thank all the authors who submitted papers we also gratefully acknowledge the members of the program committee and the external reviewers for the time and e ort they
put into reviewing the submissions special thanks are due to ying qiu for managing the website for paper s
mission review and notification patricia ohwaskindenough to arrange for the conference venue and took care of
the administration in running the conference

**Advanced Conceptual Modeling Techniques 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)
- IFIP 8.1 workshop on conceptual modeling approaches to mobile formation systems development (MOBIMOD 2002)
- International workshop on conceptual modeling quality (IWCMQ 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 olive, Masatoshi Yoshikawa, and Eric Skyu, Workshop Co-Chairs, ER 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.

**Unconventional Programming Paradigms 2005-08-25**

Nowadays developers have to face the proliferation of hardware and software environments. The increasing demands of the users and the growing number of programs and...
the sharing of information competences and services thanks to the generalization of databases and communication networks, a program is now seen as an open and adaptive frame which for example can dynamically incorporate services not foreseen by the initial designer. These new needs call for new control structures and program interactions unconventional approaches to programming have long been developed in various niches and constitute a reservoir of alternative ways to face the programming languages crisis. New models of programming, e.g., bio-inspired computing, chemical computing, amorphous computing, are also currently experiencing a renewed period of growth as they face specific needs and new application mains. These approaches provide new abstractions and notations or develop new ways of interacting with programs. They are implemented by embedding new sophisticated data structures in a classical programming model, API, by extending an existing language with new constructs to handle concurrency, open environments, by conceiving new software life cycles and program executions aspect weaving, run-time compilation, or by relying on an entire new paradigm to specify a computation. They are inspired by theoretical considerations, e.g., topological algebraic or logical foundations driven by the domain at hand, domain-specific languages like PostScript, musical notation, animation, signal processing, etc., or by metaphors taken from various areas, quantum computing, computing with molecules, information processing in biological tissues, problem solving from nature, ethological, and social modeling.

**Mass Customization** 2006-07-31 this book defines the parameters of the emerging business strategy of mass customization covering the main categories in a systematic examination of manufacturing systems and mass customization supply chain management and mass customization and information systems and mass customization. The book provides a conceptual framework for mass customization, its tools, its solutions, and real world examples of successful implementations of the business strategy.

**Wireless On-Demand Network Systems** 2003-12-19 this book contains the refereed proceedings of the 1st IFIP
tc6workingcon rence on wireless on demand network systems wons 2004 it was sponsored by the ifip working groups 6 3 performance of computer and communication networks and6 8 mobile and wireless communications and aimed at becoming a premier international forum for discussions between researchers and practitioners interested in the evolution of wireless internet access toward on demand networking ad hoc routing localization resource management curity applications performance and analytical models were topics covered in depth by technical papers in this book theconferencereceived77submissionsfrom22countries showingthewor wide interest with so many papers to choose from the technical program committee s job providing a conference program with the highest quality was challenging and time consuming we nally selected 25 full papers for presen tion in the conference technical sessions to give researchers the opportunity to present the novel ideas they are starting to explore we included in the technical program a poster session devoted to presenting preliminary research results 7 short papers were selected for presentation in this session accepted papers and posters came from 15 different countries the technical program also included a keynote speech ad hoc wireless networks protocols and applications by prof mario gerla and a panel s sion devoted to the discussion of the conference topics between academics and industry representatives this event would not have been possible without the enthusiasm and hard work of a number of colleagues a special thanks to the tpc members and all the referees for their invaluable help in reviewing the papers for wons 2004 Advances in Mobile Commerce Technologies 2003-01-01 there is substantial interest in research in developing countries especially in the use implementation and development of information technology and systems many researchers have been moving toward an understanding of indigenous social and cultural structures and how they influence the use and development of information systems e commerce and cultural values addresses these issues and brings together scholars to share their expertise on different aspects of the social side of e commerce and information systems and how they impact the cultural values of a society Transactions on Aspect-Oriented Software Development I 2006-02-22 this journal is devoted to aspect
oriented software development aosd techniques in the context of all phases of the software life cycle from requirements and design to implementation maintenance and evolution the focus of the journal is on approaches for systematic identification modularization representation and composition of crosscutting concerns evaluation of such approaches and their impact on improving quality attributes of software systems

**Mass Customization: Concepts - Tools - Realization** 2005 this book constitutes the thoroughly refereed post proceedings of the international workshop on construction and analysis of safe secure and interoperable smart devices cassis 2004 held in marseille france in march 2004 the 13 revised full papers presented were carefully selected during two rounds of reviewing and improvement the papers are devoted to trends in smart card research operating systems and virtual machine technologies secure platforms security application validation verification and formal modeling and formal methods

**Construction and Analysis of Safe, Secure, and Interoperable Smart Devices** 2005-01-28 for more and more systems software has moved from a peripheral to a central role replacing mechanical parts and hardware and giving the product a competitive edge consequences of this trend are an increase in the size of software systems the variability in software artifacts and the importance of software in achieving the system level properties software architecture provides the necessary abstractions for managing the resulting complexity we here introduce the third working ieeflip conference on software architecture wicsa3 that it is already the third such conference is in itself a clear indication that software architecture continues to be an important topic in industrial software development and in software engineering research however becoming an established field does not mean that software architecture provides less opportunity for innovation and new directions on the contrary one can identify a number of interesting trends within software architecture research the first trend is that the role of the software architecture in all phases of software development is more explicitly recognized whereas initially software architecture was primarily associated with the architecture design phase we now see that the software architecture is treated explicitly during development
product derivation in software product lines at run time and during system evolution software architecture as an artifact has been decoupled from a particular lifecycle phase

**Software Architecture: System Design, Development and Maintenance** 2013-06-29 this book constitutes the thoroughly refereed post proceedings of the international workshop on services e business and the semantic wes 2002 held in toronto canada in may 2002 in conjunction with caise 2002 the 18 revised full papers presented together with two keynote papers were carefully selected and improved during two rounds of reviewing and revision the papers are organized in topical sections on web services e business and e services and the semantic web

**Web Services, E-Business, and the Semantic Web** 2003-08-02 this book constitutes the refereed proceedings of the advanced workshop on content computing awcc 2004 held in zhen jiang jiang su china in november 2004 the 26 revised full papers and 36 revised short papers presented were carefully reviewed and selected from 194 submissions the papers are organized in topical sections on mobile code and agent technology content sharing and consistency management networking infrastructure and performance content aware security multimedia content content mining and knowledge extraction services and content applications content retrieval and management and ontologies and knowledge conceptualization

**Content Computing** 2005-01-25 written by the authors of the common warehouse metamodel cwm specification this book is the official and authoritative developer's guide provides a comprehensive look at how to develop database and data warehouse applications using the common warehouse metamodel covers the full development lifecycle including application design implementation and deployment companion site includes updates on the technology descriptions of tools and links to vendor sites

**Common Warehouse Metamodel Developer's Guide** 2003-02-17 this book constitutes the refereed proceedings of the third international conference on generative and component based software engineering gcse 2001 held in erfurt germany in september 2001 the 14 revised full papers presented together with one
invited paper were carefully reviewed and selected from 43 submissions the papers are organized in topical sections on software product lines aspects generic and generative approaches and components and architectures

**Generative and Component-Based Software Engineering** 2001-08-29 this book constitutes the refereed proceedings of the 4th international workshop on technologies for e services tes 2003 held in berlin germany in september 2003 in conjunction with vldb 2003 the 16 revised full papers presented were carefully reviewed and selected for inclusion in the book among the topics addressed are current issues on various aspects of e services in particular services service composition service aggregation service integration cooperative process control business process modeling daml s scalable services shared services context aware services and location based services

**Innovative Internet Community Systems** 2006-03-09 five years on from its adoption in 1997 by the object management group omg the uni ed modeling language is the de facto standard for creating agrammatic models of software systems more than 100 books have been written about uml and it is taught to students throughout the world the de nition of uml version 2 is well under way and should be largely completed within the year this will not only improve and enhance uml itself including standard facilities for diagram interchange but also make it fully integrated with other modeling technologies from the omg such as meta object facility mof and xml metadata interchange xmi the object constraint language which has become an important vehicle for communicating detailed insights between uml researchers and practitioners will have a much expanded speci cation and be better integrated with the uml the popularity of uml signi es the possibility of a shift of immense proportions in the practice of software development at least comparable to the shift from the use of assembly language to third generation or high level p gramming languages we dream of describing the behavior of software systems in terms of models closely related to the needs of the enterprise being served and being able to routinely translate these models automatically into executing p grams on
distributed computing systems the omg is promoting model driven architecture mda as a signi cant step towards this vision and the mda c cept has received considerable support within the it industry

Technologies for E-Services 2003-09-09 this book includes discussion on advance computer technologies such as cloud computing grid computing and service computing in addition it furthers the theory and technology of grid technologies that is used in manufacturing and accelerates the development of service oriented manufacturing

UML 2002 - The Unified Modeling Language: Model Engineering, Concepts, and Tools 2003-08-02 this book gathers the proceedings of the 2nd international conference on advanced intelligent systems and informatics aisi2016 which took place in cairo egypt during october 24 26 2016 this international interdisciplinary conference which highlighted essential research and developments in the field of informatics and intelligent systems was organized by the scientific research group in egypt srge and sponsored by the ieee computational intelligence society egypt chapter and the ieee robotics and automation society egypt chapter the book's content is divided into four main sections intelligent language processing intelligent systems intelligent robotics systems and informatics

Resource Service Management in Manufacturing Grid System 2012-01-20 this book constitutes the refereed proceedings of the second international conference on pattern recognition and machine intelligence premi 2007 held in kolkata india in december 2007 the papers are organized in topical sections on pattern recognition image analysis soft computing and applications data mining and knowledge discovery bioinformatics signal and speech processing document analysis and text mining biometrics and video analysis

Proceedings of the International Conference on Advanced Intelligent Systems and Informatics 2016 2016-10-20 this book constitutes the refereed proceedings of the 23rd international conference on advanced information systems engineering caise 2011 held in london uk in june 2011 the 42 revised full papers and 5
revised short papers presented were carefully reviewed and selected from 320 submissions in addition the book contains the abstracts of 2 keynote speeches the contributions are organized in topical sections on requirements adaptation and evolution model transformation conceptual design domain specific languages case studies and experiences mining and matching business process modelling validation and quality and service and management

**Pattern Recognition and Machine Intelligence** 2007-11-28 find out how the exciting new developments towards 4g mobile services and technologies will put the user at centre stage towards 4g technologies provides a comprehensive explanation of future networking and service delivering technologies for next generation mobile systems the authors explain how personalization mobile middleware peer to peer services semantic computing and content awareness fit into this new concept and why they will become a necessity for future mobile services the book presents the latest challenges and opportunities of next generation mobile systems explaining new paradigms of service provisioning that include flexible and adaptable services towards 4g technologies gives a comprehensive description of future networking and service delivering technologies covers hot topics such as intelligent user profiling proactive service selection context aware service provisioning and ubiquitous computing introduces seemingly diverse technologies to show how they will play together to create a new user experience includes case studies to illustrate the theory this invaluable guide will provide telecoms engineers in r d departments ctos and telecoms managers as well as academic researchers in electrical electronic engineering and telecommunications with a comprehensive understanding of next generation mobile system technologies and services

**Advanced Information Systems Engineering** 2011-06-29 component based software development cbd is an emerging discipline that promises to take software engineering into a new era building on the achievements of object oriented software construction cbd aims to deliver software engineering from a cottage industry into an industrial age for information technology wherein software can be assembled from components in the
manner that hardware systems are currently constructed from kits of parts this volume provides a survey of the current state of cbd as reflected by activities that have been taking place recently under the banner of cbd with a view to giving pointers to future trends the contributions report case studies self contained fixed term investigations with a finite set of clearly defined objectives and measurable outcomes on a sample of the myriad aspects of cbd the book includes chapters dealing with cots commercial off the shelf components methodologies for cbd compositionality i e how to calculate or predict properties of a composite from those of its constituents component software testing and grid computing

Towards 4G Technologies 2008-05-23 this book constitutes the refereed proceedings of the 6th international conference on data management in grid and peer to peer systems globe 2013 held in prague czech republic in august 2013 in conjunction with dexe 2013 the 10 revised full papers presented were carefully reviewed and selected from 19 submissions the papers are organized in the following topical sections data partitioning and consistency rdf data publishing querying linked data and applications and distributed storage systems and virtualization

Component-based Software Development: Case Studies 2004-03-09 welcome to the post proceedings of the first international conference on embedded software and systems icess 2004 which was held in hangzhou p r china 9 10 december 2004 embedded software and systems technology is of increasing importance for a wide range of industrial areas such as aerospace automotive telecommunication and manufacturing automation embedded technology is playing an increasingly dominant role in modern society this is a natural outcome of amazingly fast developments in the embedded field the icess 2004 conference brought together researchers and developers from academia industry and government to advance the science engineering and technology in embedded software and systems development and provided them with a forum to present and exchange their ideas results work in progress and experience in all areas of embedded systems research and development the icess 2004 conference attracted much more interest than expected the total number of paper
submissions to the main conference and its three workshops namely pervasive computing automobile electronics and tele communication was almost 400 from nearly 20 countries and regions all submissions were reviewed by at least three program or technical committee members or external reviewers it was extremely difficult to make the final decision on paper acceptance because there were so many excellent foreseeing and interesting submissions with brilliant ideas

*Data Management in Cloud, Grid and P2P Systems* 2013-08-21 the six papers collected here from the journal devoted to all facets of aspect oriented software development aods techniques includes three submitted through the regular channels and three that focus on the area of aspects dependencies and interactions

*Proceedings of the Estonian Academy of Sciences, Engineering* 2002-03 this tutorial book presents an augmented selection of material presented at the international summer school on generative and transformational techniques in software engineering gttse 2005 the book comprises 7 tutorial lectures presented together with 8 technology presentations and 6 contributions to the participants workshop the tutorials combine foundations methods examples and tool support subjects covered include feature oriented programming and the ahead tool suite program transformation with reflection and aspect oriented programming and more

*Embedded Software and Systems* 2005-08-29 this book constitutes the refereed proceedings of the 9th international conference on model driven engineering languages and systems formerly uml conferences models 2006 the book presents 51 revised full papers and 2 invited papers discussion is organized in topical sections on evaluating uml mda in software development concrete syntax applying uml to interaction and coordination aspects model integration formal semantics of uml security model transformation tools and implementation and more

*Transactions on Aspect-Oriented Software Development V* 2009-06-02 the documentation is missing or
obsolete and the original developers have departed your team has limited understanding of the system and unit tests are missing for many if not all of the components when you fix a bug in one place another bug pops up somewhere else in the system long rebuild times make any change difficult all of these are signs of software that is close to the breaking point many systems can be upgraded or simply thrown away if they no longer serve their purpose legacy software however is crucial for operations and needs to be continually available and upgraded how can you reduce the complexity of a legacy system sufficiently so that it can continue to be used and adapted at acceptable cost based on the authors industrial experiences this book is a guide on how to reverse engineer legacy systems to understand their problems and then reengineer those systems to meet new demands patterns are used to clarify and explain the process of understanding large code bases hence transforming them to meet new requirements the key insight is that the right design and organization of your system is not something that can be evident from the initial requirements alone but rather as a consequence of understanding how these requirements evolve describes how to reverse engineer a monolithic system to understand how it really works and how to identify potential problems includes reengineering patterns that tackle well known reengineering techniques often encountered in object oriented programming such as introducing polymorphism factoring out common behavior detecting duplicated code and understanding design shows how to build a culture of continuous reengineering for achieving flexible and maintainable object oriented systems

**Generative and Transformational Techniques in Software Engineering** 2006-11-02

**Model Driven Engineering Languages and Systems** 2006-11-23

**Object-Oriented Reengineering Patterns** 2002-07-16

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