



FEATURE  
INTERACTIONS IN  
TELECOMMUNICATIONS  
AND SOFTWARE SYSTEMS VII

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# Feature Interactions In Telecommunications And Software Systems V

**Camilla Rothe**



## **Feature Interactions In Telecommunications And Software Systems V:**

**Feature Interactions in Telecommunications and Software Systems V** K. Kimbler, L. G. Bouma, 1998 The LabManual is a valuable tool designed to enhance your lab experience Lab activities objectives materials lists step by step procedures illustrations and review questions are commonly found in a Lab Manual *Feature Interactions in Telecommunications and Software Systems VI* Muffy Calder, Evan Magill, 2000 Typically telecommunications services are implemented in software Feature interaction is the term used to describe interference between services or features most attention is given to cases where the interference is undesirable ie there is an incompatibility In telecommunications control and data is distributed and on such a large scale that software development is by numerous disjoint teams by its nature therefore this software experienced the feature interaction problem first But while the workshop focuses on communications services the subject has relevance to any domain where separate software entities control a shared resource *Feature Interactions in Telecommunications and Software Systems VIII* Stephan Reiff-Marganiec, Mark D. Ryan, 2005 Features additional services occur whenever organisations compete by differentiating their products from those of rival organisations Adding one feature may break another or interfere with it in an undesired way This phenomenon is called feature interaction This book explores ways in which the feature interaction problem may be mitigated *Feature Interactions in Software and Communication Systems X* M. Nakamura, S. Reiff-Marganiec, 2009-05-29 The International Conference on Feature Interactions in Software and Communication Systems ICFI has evolved out of the Feature Interaction Workshop FIW which started in 1992 as the leading forum for discussion and reporting on research on feature interactions in telecommunications systems It is now concerned with feature interaction in all types of software systems Participation includes practitioners researchers and educators The proceedings have been published by IOS Press since 1994 *Feature Interactions in Software and Communication Systems IX* Lydie Du Bousquet, Jean-Luc Richier, 2008 Deals with the feature interaction problem in telecommunication systems **ZB 2000: Formal Specification and Development in Z and B** Jonathan P. Bowen, Steve Dunne, Andy Galloway, Steve King, 2003-06-26 This book constitutes the refereed proceedings of the First International Conference of B and Z Users ZB 2000 held in York UK in August September 2000 The 25 revised full papers presented together with four invited contributions were carefully reviewed and selected for inclusion in the book The book documents the recent advances for the Z formal specification notion and for the B method the full scope ranging from foundational and theoretical issues to advanced applications tools and case studies is covered *Programming Methodology* Annabelle McIver, Carroll Morgan, 2012-12-06 The second half of the twentieth century saw an astonishing increase in computing power today computers are unbelievably faster than they used to be they have more memory they can communicate routinely with remote machines all over the world and they can fit on a desktop But despite this remarkable progress the voracity of modem applications and user expectations still pushes technology right to the limit As hardware

engineers build ever more powerful machines so too must software become more sophisticated to keep up Medium to large scale programming projects need teams of people to pull everything together in an acceptable timescale The question of how programmers understand their own tasks and how they fit together with those of their colleagues to achieve the overall goal is a major concern Without that understanding it would be practically impossible to realise the commercial potential of our present day computing hardware That programming has been able to keep pace with the formidable advances in hardware is due to the similarly formidable advances in the principles for design construction and organisation of programs The efficacy of these methods and principles speaks for itself computer technology is all pervasive but even more telling is that they are beginning to feed back and influence hardware design as well The study of such methods is called programming methodology whose topics range over system and domain modelling concurrency object orientation program specification and validation That is the theme of this collection **Language Constructs for Describing Features** Stephen

Gilmore, Mark Ryan, 2012-12-06 A feature is a small modification or extension of a system which can be seen as having a self contained functional role such as Call Forwarding Automatic Call back and Voice Mail in telephone services to which users can subscribe Feature interaction happens when one feature modifies or subverts the operation of another and this problem has received a great deal of attention from industry and academics especially in the field of telecommunications where new services are constantly being developed and deployed This volume contains refereed papers resulting from the ESPRIT FIREworks working group The papers focus on the language constructs which have been developed describing features and advocate a feature oriented approach to software design including requirements specification languages and verifications logics Critical Systems: Formal Methods and Automated Verification Laure Petrucci, Cristina Seceleanu, Ana

Cavalcanti, 2017-09-02 This book constitutes the refereed proceedings of the Joint 22nd International Workshop on Formal Methods for Industrial Critical Systems and the 17th International Workshop on Automated Verification of Critical Systems FMICS AVoCS 2017 held in Turin Italy in September 2017 The 14 full papers presented together with one invited talk were carefully reviewed and selected from 30 submissions They are organized in the following sections Automated verification techniques Testing and scheduling Formal Methods for mobile and autonomous robots and Modeling and analysis techniques

Object-Oriented Technology: ECOOP 2001 Workshop Reader Akos Frohner, 2003-08-01 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 research 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 on 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.

**Application and Theory of Petri Nets 2002** Javier Esparza, Charles Lakos, 2003-08-02

**Advances in Data Management** Zbigniew W. Ras, Agnieszka Dardzinska, 2009-07-11 Data Management is the process of planning, coordinating and controlling data resources. More often applications need to store and search a large amount of data. Managing Data has been continuously challenged by demands from various areas and applications and has evolved in parallel with advances in hardware and computing techniques. This volume focuses on its recent advances and it is composed of five parts and a total of eighteen chapters. The first part of the book contains five contributions in the area of information retrieval and Web intelligence: a novel approach to solving index selection problem, integrated retrieval from Web of documents and data bipolarity in database querying, deriving data summarization through ontologies and granular computing for Web intelligence. The second part of the book contains four contributions in knowledge discovery area. Its third part contains three contributions in information integration and data security area. The remaining two parts of the book contain six contributions in the area of intelligent agents and applications of data management in medical domain.

**Formal Methods for Open Object-Based Distributed Systems V** Bart Jacobs, Arend Rensink, 2002-03-31 Formal Methods for Open Object Based Distributed Systems V brings together research in three important and related fields: Formal methods, Distributed systems, Object based technology. Such a convergence is representative of recent advances in the field of distributed systems and provides links between several scientific and technological communities. The wide scope of topics covered in this volume ranges in subject from UML to object based languages and calculi and security and in approach from specification to case studies and verification. This volume comprises the proceedings of the Fifth International Conference on Formal Methods for Open Object Based Distributed Systems FMOODS 2002 which was sponsored by the International Federation for Information Processing IFIP and held in Enschede, The Netherlands in March 2002.

**Encyclopedia of Software Engineering Three-Volume Set (Print)** Phillip A. Laplante, 2010-11-22 Software engineering requires specialized knowledge of a broad spectrum of topics including the construction of software and the platforms, applications and environments in which the software operates as well as an understanding of the people who build and use the software. Offering an authoritative perspective, the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field. More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy to read entries that cover software

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

Feature Interactions in Telecommunications Systems, III Kong E. Cheng, Tadashi Ohta, 1995 In an information society heavily dependent on communications and distributed systems feature interactions are likely to become an even more important problem than they are today A particularly interesting issue given the current work on agents is whether feature interactions will be more likely in systems with many autonomous agents performing tasks The current demand for better and more convenient communications requires development of a variety of new services as quickly as possible As the number of services becomes larger however feature interactions create incompatibilities between the various functions needed to implement them In developing telecommunication systems we now spend huge numbers of person hours on software modifications and testing whenever a new function is added Much of this time is spent on detecting and eliminating problems arising from feature interaction In the future as ever more services are offered feature interactions will become a major bottleneck in the development of software for telecommunications systems This book presents opinions on the technical problems involved in feature interactions and definitions of features and feature interactions

Managing QoS in Multimedia Networks and Services José Neuman de Souza, Raouf Boutaba, 2000-09-30 Welcome to the third International Conference on Management of Multimedia Networks and Services MMNS 2000 in Fortaleza Brazil The first MMNS was held in Montreal Canada in July 1997 and the second MMNS was held in Versailles France in November 1998 The MMNS conference takes place every year and a half and is aimed to be a truly international event by bringing together researchers and practitioners from all around the world and by organising the conference each time in a different continent country Over the past several years there has been a considerable amount of research within the fields of multimedia networking and network management Much of that work has taken place within the context of managing Quality of Service in broadband integrated services digital networks such as the ATM and more recently in IP based networks to respond to the requirements of emerging multimedia applications ATM networks were designed to support multimedia traffic with diverse characteristics and can be used as the transfer mode for both wired and wireless networks A new set of Internet protocols is being developed to provide better quality of service which is a prerequisite for supporting multimedia applications Multimedia applications have a different set of requirements which impacts the design of the underlying communication network as well as its management Several QoS management mechanisms intervening at different layers of the

communication network are required including QoS routing QoS based transport QoS negotiation QoS adaptation FCAPS management and mobility management      Feature Interactions in Telecommunications Systems L. G. Bouma,H.

Velthuisen,1994 Features are modifications to the control of telecommunications services A feature interaction occurs when the behaviour of another which can lead to unexpected or undesired behaviour which affects the quality of service The goal of this volume is to generate a combination of techniques through protocol engineering software testing formal techniques and AI and applications to telecommunications services      **Objects, Agents, and Features** Mark Ryan,John-Jules Ch.

Meyer,Hans-Dieter Ehrich,2004-11-11 In recent years concepts in object oriented modeling and programming have been extended in several directions giving rise to new paradigms such as age orientation and feature orientation This volume came out of a Dagstuhl seminar exploring the relationship tween the original paradigm and the two new ones Following the success of the seminar the idea emerged to edit a volume with contributions from parti pants including those who were invited but could not come The participants reaction was very positive and so we the organizers of the seminar felt couraged to edit this volume All submissions were properly refereed resulting in the present selection of high quality papers in between the topics of objects agents and features The editors got help from a number of additional reviewers viz Peter Ahlbrecht Daniel Amyot Lynne Blair Jan Broersen Mehdi Dastani Virginia Dignum Dimitar Guelev Benjamin Hirsch Maik Kollmann Alice Miller Stephan Rei Marganiec Javier Vazquez Salceda and Gerard Vreeswijk Finally we would like to take this opportunity to thank all the persons volvedintherealizationoftheseminarandthisbook attendees authors revi ers and last but not least the sta from Schloss Dagstuhl and Springer Verlag February 2004 The Editors TableofContents Objects Agents and Features An Introduction 1 John Jules Ch Meyer Mark D Ryan and Hans Dieter Ehrich Coordinating Agents in OO 8 Frank S de Boer Cees Pierik Rogier M van Eijk and John Jules Ch Meyer On Feature Orientation and on Requirements Encapsulation Using Families of Requirements 26 Jan Bredereke Detecting Feature Interactions How Many Components Do We Need

FM'99 - Formal Methods Jeannette M. Wing,Jim Woodcook,Jim Davies,1999-09-13 Formal methods are coming of age Mathematical techniques and tools are now regarded as an important part of the development process in a wide range of industrial and governmental organisations A transfer of technology into the mainstream of systems development is slowly but surely taking place FM 99 the First World Congress on Formal Methods in the Development of Computing Systems is a result and a measure of this new found maturity It brings an impressive array of industrial and applications oriented papers that show how formal methods have been used to tackle real problems These proceedings are a record of the technical symposium ofFM 99 alo side the papers describingapplicationsofformalmethods youwill ndtechnical reports papers andabstracts detailing new advances in formaltechniques from mathematical foundations to practical tools The World Congress is the successor to the four Formal Methods Europe Symposia which in turn succeeded the four VDM Europe Symposia This s session re ects an increasing openness within the international community of researchers and practitioners

papers were submitted covering a wide variety of formal methods and application areas The programme committee reflects the Congress's international nature with a membership of 84 leading researchers from 38 different countries The committee was divided into 19 tracks each with its own chair to oversee the reviewing process Our collective task was a difficult one there were 259 high quality submissions from 35 different countries

Feature-Oriented Software Product Lines Sven Apel, Don Batory, Christian Kästner, Gunter Saake, 2013-10-04 While standardization has empowered the software industry to substantially scale software development and to provide affordable software to a broad market it often does not address smaller market segments nor the needs and wishes of individual customers Software product lines reconcile mass production and standardization with mass customization in software engineering Ideally based on a set of reusable parts a software manufacturer can generate a software product based on the requirements of its customer The concept of features is central to achieving this level of automation because features bridge the gap between the requirements the customer has and the functionality a product provides Thus features are a central concept in all phases of product line development The authors take a developer's viewpoint focus on the development maintenance and implementation of product line variability and especially concentrate on automated product derivation based on a user's feature selection The book consists of three parts Part I provides a general introduction to feature oriented software product lines describing the product line approach and introducing the product line development process with its two elements of domain and application engineering The pivotal part II covers a wide variety of implementation techniques including design patterns frameworks components feature oriented programming and aspect oriented programming as well as tool based approaches including preprocessors build systems version control systems and virtual separation of concerns Finally part III is devoted to advanced topics related to feature oriented product lines like refactoring feature interaction and analysis tools specific to product lines In addition an appendix lists various helpful tools for software product line development along with a description of how they relate to the topics covered in this book To tie the book together the authors use two running examples that are well documented in the product line literature data management for embedded systems and variations of graph data structures They start every chapter by explicitly stating the respective learning goals and finish it with a set of exercises additional teaching material is also available online All these features make the book ideally suited for teaching both for academic classes and for professionals interested in self study



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