

WORKSHOPS IN COMPUTING

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Udo W. Lipeck and
Bernhard Thalheim (Eds.)

Modelling Database Dynamics, Volkse 1992



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Modelling Database Dynamics Workshops In Computing

Michael Luck



Modelling Database Dynamics Workshops In Computing:

Modelling Database Dynamics Udo W. Lipeck, Bernhard Thalheim, 2013-03-09 Database modelling is concerned with the design of reliable and efficient database systems Three different approaches to modelling can be identified structure oriented process oriented and behaviour oriented Database literature has traditionally focused on structure oriented approaches but it is now widely recognised that problems can be solved more effectively by integrating all three As a result modelling database dynamics is now considered to be as important as modelling static database structures This volume contains selected papers from the Fourth International Workshop on Foundations of Models and Languages for Data and Objects held in Volkse Germany 19 22 October 1992 This series of international workshops was initiated by the Working Group on Foundations of Information Systems part of the German Association for Informatics It provides an international forum for the discussion of current research into database theory and its application to database technology The theme of this particular workshop was modelling the dynamic behaviour of database systems in formal frameworks As object oriented principles are being widely used in current research work particular emphasis was also given to object dynamics Among the topics covered in this volume are specifying the dynamics of complex objects databases updates in a rule based language for objects an order sorted approach to active objects non deterministic aspects of database transformations involving object creation monitoring temporal permissions using partially evaluated transition graphs a formalisation of logic databases and integrity constraints a comparison of approaches for modelling dynamics of databases Modelling Database Dynamics provides a comprehensive overview of current research into the modelling and use of database dynamics It will provide invaluable reading for researchers postgraduate students and anyone interested in the theoretical foundations of computer science *Database Programming Languages (DBPL-4)* Catriel Beeri, Atsushi Ohori, Dennis Shasha, 2013-06-29 The Fourth International Workshop on Database Programming Languages Object Models and Languages DBPL 4 took place in Manhattan New York City 30 August 1 September 1993 The areas of interest and the format of DBPL 4 focused on the integration of programming languages object models type systems and database systems As in the previous DBPL workshops the setting was informal allowing the participants to actively discuss and argue about the ideas presented in the talks The comments and remarks made by the participants during and after the presentations were taken into account in the preparation of the final versions of the papers The result we believe is a set of excellent papers The DBPL sequence is closely related to the sequence of International Workshops on Persistent Object Systems POS first started in 1985 While the DBPL workshops focus on language and model issues the POS workshops have focused on implementation issues thus the two sequences complement each other Many researchers participate in both workshop series The eight sessions of the technical program of DBPL 4 were as follows 1 Bulk types and their query languages two sessions 2 Object models and languages 3 Data types with order 4 Mechanisms to support persistence reflection and extensibility 5 Query optimization and integrity constraints 6 Logic based

models 7 Implementation and performance issues *Multi-Agent Systems and Applications* Michael Luck, 2001-06-20 This book presents selected tutorial lectures given at the summer school on Multi Agent Systems and Their Applications held in Prague Czech Republic in July 2001 under the sponsorship of ECCAI and Agent Link The 20 lectures by leading researchers in the field presented in the book give a competent state of the art account of research and development in the field of multi agent systems and advanced applications The book offers parts on foundations of MAS social behaviour meta reasoning and learning and applications **6th Refinement Workshop** David Till, 2012-12-06 The Sixth Refinement Workshop took place at City University in London from 5th to 7th January 1994 The present volume includes all of the papers which were submitted and accepted for presentation together with two papers by invited speakers The workshops in the series have generally occurred at one year intervals but in this last case a two year period had elapsed These workshops have established themselves as an important event in the calendar for all those who are interested in progress in the underlying theory of refinement and in the take up by industry of the methods supported by that theory One of the proposed themes of the sixth workshop was the reporting of successful adoption in industry of rigorous software development methods The programme committee was perhaps slightly disappointed by the response from industry to the call in this respect However the recent period could be characterised as one of consolidation when those companies which have made the decision that formal development methods are important to their business have been adopting them where appropriate and finding them to be worthwhile On the other hand the difficult economic climate which exists in most parts of the developed world is perhaps not the context within which companies still dubious about the benefits are going to opt for making major changes in their working practices **Functional Programming, Glasgow 1993** John T. O'Donnell, Kevin Hammond, 2012-12-06 The Functional Programming Group at the University of Glasgow was started in 1986 by John Hughes and Mary Sheeran Since then it has grown in size and strength becoming one of the largest computing science research groups at Glasgow and earning an international reputation The first Glasgow Functional Programming Workshop was organised in the summer of 1988 Its purpose was threefold to provide a snapshot of all the research going on within the group to share research ideas between Glaswegians and colleagues in the U K and abroad and to introduce research students to the art of writing and presenting papers at a semi formal but still local and friendly conference The success of the first workshop has led to an annual series Rothesay 1988 Fraserburgh 1989 Ullapool 1990 Portree 1991 Ayr 1992 and the workshop reported in these proceedings Ayr 1993 Most participants wrote a paper that appeared in the draft proceedings distributed at the workshop and each draft paper was presented by one of the authors The papers were all refereed by several other participants at the workshop both internal and external and the programme committee selected papers for these proceedings Most papers have been revised twice based firstly on feedback at the workshop and secondly using the referee reports **Joint Workshop of the German Research Training Groups in Computer Science** Johannes Hölzl, 2011 **Entity-Relationship Modeling**

Bernhard Thalheim,2013-03-09 Database technology and entity relationship ER modeling have meanwhile reached the level of an established technology This book presents the achievements of research in this field in a comprehensive survey It deals with the entity relationship model and its extensions with regard to an integrated development and modeling of database applications and consequently the specification of structures behavior and interaction Apart from research on the ER model and the syntax semantics and pragmatics of database modeling the book also presents techniques for the translation of the ER model into classical database models and languages such as relational hierarchical and network models and languages and also into object oriented models The book is of interest for all database theoreticians as well as practitioners who are provided with the relevant foundations of database modeling *Z User Workshop, Cambridge 1994* J.P. Bowen,J.A.

Hall,2012-12-06 This volume contains papers from the Eighth Z User Meeting to be held at the University of Cambridge from 29 30 June 1994 The papers cover a wide range of issues associated with Z and formal methods with particular reference to practical application These issues include education standards tool support and interaction with other design paradigms such as consideration of real time and object oriented approaches to development Among the actual topics covered are the formal specification in Z of Defence Standard 00 56 formal specification of telephone features specifying and interpreting class hierarchies in Z and software quality assurance using the SAZ method *Z User Workshop Cambridge 1994* provides an important overview of current research into industrial applications of Z and will provide invaluable reading for researchers postgraduate students and also potential industrial users of Z **Active and Real-Time Database Systems (ARTDB-95)**

Mikael Berndtsson,Jörgen Hansson,2012-12-06 The areas of active and real time databases have seen a tremendous growth of interest in the past few years particularly with regard to their support of time critical and embedded applications ARTDB 95 provided therefore an important forum for researchers from both communities to discuss research results and also to chart new directions for the future As well as the 11 submitted papers presented at the workshop this volume also contains 4 invited papers on the following topics the impact of active databases on commercial practice the optimization of active database transactions the need for better language compiler and tool support for real time databases and the origin of time constraints associated with data events and actions Together the papers give a comprehensive overview of current research and will provide invaluable reading for academic and industrial researchers and students at both undergraduate and postgraduate level **Database and Expert Systems Applications**

Vladimir Marik,Jiri Lazansky,1993-08-25 This volume constitutes the proceedings of the 4th International Conference on Database and Expert Systems Applications DEXA held in Prague Czech Republic in September 1993 Traditionally the objective of the DEXA conferences is to serve as an international forum for the discussion and exchange of research results and practical experience among theoreticians and professionals working in the field of database and artificial intelligence technologies Despite the fact that in the conference title the applications aspect is mentioned explicitly the theoretical and the practical points of view in the field are well balanced in the

program of DEXA 93 The growing importance of the conference series is outlined by the remarkably high number of 269 submissions and by the support given by renowned organizations DEXA 93 is held for the first time outside the former GDR in an East European country and is essentially contributing to the advancement of the East West scientific cooperation in the field of database and AI systems This proceedings contains the 78 contributed papers carefully selected by an international program committee with the support of a high number of subreferees The volume is organized in sections on data models distributed databases advanced database aspects database optimization and performance evaluation spatial and geographic databases expert systems and knowledge engineering legal systems other database and artificial intelligence applications software engineering and hypertext hypermedia and user interfaces Recent Advances in Temporal Databases James Clifford, Alexander Tuzhilin, 2012-12-06 The International Workshop on Temporal Databases held in Zurich Switzerland 17 18 September 1995 brought together researchers from academic and industrial institutions with database practitioners interested in keeping up with the state of the art developments in the management of temporal data A previous workshop in Arlington Texas in June 1993 focused on the development of an infrastructure that would spur the development of commercial implementations of many of the generally agreed upon features of temporal database management that have emerged from the temporal database research community over more than a decade of research This ARP A/NSF sponsored Arlington workshop saw the formation of the TSQL2 Language Design Committee which led to the development of the recently completed TSQL2 Language Specification and also created a consensus glossary of temporal database terminology and a test suite of temporal database queries The Zurich workshop was conceived from the outset to be universal in scope and international in participation The Call for Papers sought to evoke the highest quality and most up to date temporal database research from around the world Mindful of the important work accomplished by the previous workshop the Call also specifically sought out research papers and panels that would comment and build upon the widely publicized results from Arlington These proceedings contain the papers that were selected for presentation at the International Workshop on Temporal Databases held in Zurich Switzerland on 17 18 September 1995 *East/West Database Workshop* Johann Eder, Leonid A. Kalinichenko, 2013-06-29 This volume results from the four day scientific Second International East West Database Workshop which took place 25th 28th September 1994 in Klagenfurt Austria continuing a series of workshops started in Kiev in 1990 Lecture Notes in Computer Science No 504 Springer Next Generation Information System Technology The aims of this workshop are twofold first to provide a forum for the presentation and in depth discussion of scientific achievements in the field of advanced databases that will effectively improve the building and use of future information systems second to establish and increase communication between research communities which were formerly separated and therefore had only rare opportunities to interact It should establish contacts between researchers from the East and from the West to make exchange of ideas possible and to trigger collaborations However it is not only political borders which change

their perviousness as a result of or giving rise to new autonomies or new possibilities for interaction and collaboration The same happens with the borders between scientific areas in particular in the dynamically evolving areas of computer science Databases and programming languages are integrated in object oriented databases database and information retrieval technology form together the basis for modern multimedia information systems Furthermore the borders between different information systems change and allow various forms of collaboration while maintaining different degrees of autonomy Heterogeneous and distributed databases are enabling technologies for these systems

Functional Programming, Glasgow 1994 Kevin Hammond, David N. Turner, Patrick M. Sansom, 2013-03-09 This is the proceedings of the seventh annual workshop held by the Glasgow Functional Programming Group The purpose of the workshop is to provide a focus for new research to foster research contacts with other functional language researchers and to provide a platform for research students to develop their presentation skills As in previous years we spent three days closeted together in a pleasant seaside town isolated from normal work commitments We were joined by colleagues from other universities both UK and abroad and from industry Workshop participants presented a short talk about their current research work and produced a paper which appeared in a draft proceedings These papers were then reviewed and revised in the light of discussions at the workshop and the referees comments A selection of those revised papers the majority of those presented at the workshop appears here in the published proceedings The papers themselves cover a wide span from theoretical work on algebras and bisimilarity to experience with a real world medical application Unsurprisingly given Glasgow's track record there is a strong emphasis on compilation techniques and optimisations and there are also several papers on concurrency and parallelism

Rules in Database Systems Norman W. Paton, M. Howard Williams, 2012-12-06 This book is the proceedings of a workshop held at Heriot Watt University in Edinburgh in August 1993 The central theme of the workshop was rules in database systems and the papers presented covered a range of different aspects of database rule systems These aspects are reflected in the sessions of the workshop which are the same as the sections in this proceedings Active Databases Architectures Incorporating Temporal Rules Rules and Transactions Analysis and Debugging of Active Rules Integrating Graphs Objects with Deduction Integrating Deductive and Active Rules Integrity Constraints Deductive Databases The incorporation of rules into database systems is an important area of research as it is a major component in the integration of behavioural information with the structural data with which commercial databases have traditionally been associated This integration of the behavioural aspects of an application with the data to which it applies in database systems leads to more straightforward application development and more efficient processing of data Many novel applications seem to need database systems in which structural and behavioural information are fully integrated Rules are only one means of expressing behavioural information but it is clear that different types of rule can be used to capture directly different properties of an application which are cumbersome to support using conventional database architectures In recent years there has been a surge of

research activity focusing upon active database systems and this volume opens with a collection of papers devoted specifically to this topic *Image Processing for Broadcast and Video Production* Yakup Paker,Silvia Wilbur,2012-12-06

Recent developments in computer visualisation mean that it is now possible to combine computer generated image sequences with real video in real time for broadcast quality production This will not only revolutionise the broadcast industry by making electronic film sets possible for example but also has important implications for related fields such as virtual reality multi media industrial vision and medical image processing This volume contains papers from the European Workshop on Combined Real and Synthetic Image Processing for Broadcast and Video Production held in Hamburg 23 24 November 1994 The papers cover three main aspects of research hardware image analysis and image synthesis and include several key contributions from the EU RACE II supported MONA LISA MOdelling NATuraL Images for Synthesis and Animation project The resulting volume gives a comprehensive overview of this important area of research and will be of interest to practitioners researchers and postgraduate students Advances in Exception Handling Techniques Alexander

Romanovsky,Christophe Dony,Jorgen Lindskov Knudsen,Anand Tripathi,2003-06-29 Modern software systems are becoming more complex in many ways and have to cope with a growing number of abnormal situations which in turn are increasingly complex to handle The most general way of dealing with these problems is by incorporating exception handling techniques in software design In the past various exception handling models and techniques have been proposed and many of them are part of practical languages and software composition technologies This book is composed of five parts which deal with topics related to exception handling in the context of programming language models design methodologies concurrent and distributed systems applications and experiences and large scale systems such as database and workflow process management systems The 17 coherently written chapters by leading researchers competently address a wide range of issues in exception handling **Structures in Concurrency Theory** Jörg Desel,2013-03-08 This book is the proceedings of

the Structures in Concurrency Theory workshop STRICT that was held from 11 th to 13th May 1995 in Berlin Germany It includes three invited contributions by J de Bakker E Best et al and E R Olderog and M Schenke and all papers which were submitted and accepted for presentation Concurrency Theory deals with formal aspects of concurrent systems It uses partly competing and partly complementary formalisms and structures The aim of this workshop was to present and compare different formalisms and results in Concurrency Theory STRICT was organized by the Humboldt University Berlin and the ESPRIT Basic Research Working Group CALIBAN Original papers had been sought from all scientists in the field of Concurrency Theory The Programme Committee selected twenty contributions with various different topics including Petri Nets Process Algebras Distributed Algorithms Formal Semantics and others I am grateful to the Programme Committee and to the other referees for the careful evaluation of the submitted papers Security for Object-Oriented Systems Bhavani

Thuraisingham,Ravi Sandhu,T.C. Ting,2013-06-29 This volume contains papers from the OOPSLA 93 Conference Workshop

on Security for Object Oriented Systems held in Washington DC USA on 26 September 1993 The workshop addressed the issue of how to introduce an acceptable level of security into object oriented systems as the use of such systems becomes increasingly widespread The topic is approached from two different but complementary viewpoints the incorporation of security into object oriented systems and the use of object oriented design and modelling techniques for designing secure applications The papers cover a variety of issues relating to both mandatory and discretionary security including security facilities of PCTE information flow control the design of multilevel secure data models and secure database interoperation via role translation The resulting volume provides a comprehensive overview of current work in this important area of research

Theory and Formal Methods 1993 Geoffrey Burn, Simon Gay, Mark Ryan, 2012-12-06 This volume contains the proceedings of the first workshop held by the Theory and Formal Methods Section of the Imperial College Department of Computing It contains papers from almost every member of the Section from our long term academic visitors and from those who have recently left us The papers fall into four broad areas semantics concurrency logic specification with some papers spanning a number of disciplines The subject material varies from work on mathematical foundations to practical applications of this theory expressing the Section's commitment to both the foundations of computer science and the application of theory to real computing problems In preparing the workshop and these proceedings care was taken to ensure that there were papers over-viewing a field as well as ones whose primary aim was to present new scientific results This had a dual purpose to bring our Section members up to speed in some of the areas being worked on by the Section and to provide the reader of the proceedings not only with a good introduction to many of the specific areas being investigated by the Section but also with details of some of our latest results All the papers presented at the workshop were revised following comments made by the workshop participants and all were subsequently reviewed by at least two people before producing the final versions contained in this volume

Logic in Databases Dino Pedreschi, Carlo Zaniolo, 1996-10-02 This book constitutes the strictly refereed post workshop proceedings of the International Workshop on Logic in Databases LID 96 held in San Miniato Italy in July 1996 as the final meeting of an EC US cooperative activity The volume presents 21 revised full papers selected from 49 submissions as well as 3 invited contributions and a summary of a panel discussion on deductive databases challenges opportunities and future directions The retrospective survey on logic and databases by Jack Minker deserves a special mention it is a 56 page overview and lists 357 references The papers are organized in sections on uncertainty temporal and spatial reasoning updates active databases semantics advanced applications query evaluation language extensions and logic constructs and expressive power

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