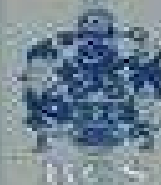


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Tony McEnery and
Chris Paice (Eds.)

14th Information Retrieval Colloquium, Lancaster 1992



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14th Information Retrieval Colloquium Workshops In Computing

James Clifford, Alexander Tuzhilin



14th Information Retrieval Colloquium Workshops In Computing:

14th Information Retrieval Colloquium Tony McEnery, Chris Paice, 2012-12-06 We hope that all readers will find the papers included in this volume of interest All were presented at the 14th BCS IRSG Research Colloquium held at Lancaster University on 13th 14th April 1992 The papers display very well the scope and breadth of information retrieval as indeed did the workshop itself They also present a good cross section of current IR research and as such provide a useful signpost for trends in information retrieval Before we finish we must thank the following colleagues Simon Botley Paul Rayson and Paul Jones for their help in the organization of the conference We would also like to extend a special message of thanks to Professor G N Leech of the Department of Linguistics at Lancaster and Roger Garside of the Department of Computing at Lancaster for their support during the conference period Tony McEnery would also like to express his thanks and gratitude to Paul Baker for his help during the production of this book September 1992 Tony McEnery Chris Paice Contents A Logical Model of Information Retrieval Based on Situation Theory M La mas and K van Rijsbergen *Recent Advances in Computational Terminology* Didier Bourigault, Christian Jacquemin, Marie-Claude L'Homme, 2001-01-01 This collection of articles from researchers in automatic analysis storage and use of terminology offers insights into computational terminology The articles cover themes such as automatic thesaurus construction automatic term acquisition and automatic term translation as well as automatic indexing and abstracting and computer aided knowledge of acquisition **Information Retrieval: Uncertainty and Logics** Cornelis Joost van Rijsbergen, Fabio Crestani, Mounia Lalmas, 2012-12-06 In recent years there have been several attempts to define a logic for information retrieval IR The aim was to provide a rich and uniform representation of information and its semantics with the goal of improving retrieval effectiveness The basis of a logical model for IR is the assumption that queries and documents can be represented effectively by logical formulae To retrieve a document an IR system has to infer the formula representing the query from the formula representing the document This logical interpretation of query and document emphasizes that relevance in IR is an inference process The use of logic to build IR models enables one to obtain models that are more general than earlier well known IR models Indeed some logical models are able to represent within a uniform framework various features of IR systems such as hypermedia links multimedia data and user s knowledge Logic also provides a common approach to the integration of IR systems with logical database systems Finally logic makes it possible to reason about an IR model and its properties This latter possibility is becoming increasingly more important since conventional evaluation methods although good indicators of the effectiveness of IR systems often give results which cannot be predicted or for that matter satisfactorily explained However logic by itself cannot fully model IR The success or the failure of the inference of the query formula from the document formula is not enough to model relevance in IR It is necessary to take into account the uncertainty inherent in such an inference process In 1986 Van Rijsbergen proposed the uncertainty logical principle to model relevance as an uncertain inference process When proposing the principle Van

Rijsbergen was not specific about which logic and which uncertainty theory to use. As a consequence various logics and uncertainty theories have been proposed and investigated. The choice of an appropriate logic and uncertainty mechanism has been a main research theme in logical IR modeling leading to a number of logical IR models over the years. *Information Retrieval Uncertainty and Logics* contains a collection of exciting papers proposing developing and implementing logical IR models. This book is appropriate for use as a text for a graduate level course on Information Retrieval or Database Systems and as a reference for researchers and practitioners in industry.

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.

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.

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

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

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 overiewing 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.

Incompleteness and Uncertainty in Information Systems V.S. Alagar, S. Bergler, F.Q. Dong, 2012-12-06 The Software Engineering and Knowledgebase Systems SOFfEKS Research Group of the Department of Computer Science Concordia University Canada organized a workshop on Incompleteness and Uncertainty in Information Systems from October 8-9 1993 in Montreal. A major aim of the workshop was to bring together researchers who share a concern for issues of incompleteness and uncertainty. The workshop attracted people doing fundamental research and industry oriented research in databases, software engineering and AI from North America, Europe and Asia. The workshop program featured six invited talks and twenty other presentations. The invited speakers were Martin Feather, University of Southern California; Information Systems Institute; Laks V S Lakshmanan, Concordia University; Ewa Orłowska, Polish Academy of Sciences; Z Pawlak, Warsaw Technical University; and Academy of Sciences; F Sadri, Concordia University; A Skowron, Warsaw University. The papers can be classified into four groups: rough sets and logic, concept analysis, databases and information retrieval, and software engineering. The workshop opened with a warm welcome speech from Dr Dan Taddeo, Dean, Faculty of Engineering and Computer Science. The first day's presentations were in rough sets, databases and information retrieval. Papers given on the second day centered around software engineering and concept analysis. Sufficient time was given in between presentations to promote active interactions and numerous lively discussions. At the end of two days the participants expressed their hope that this workshop would be continued.

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 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 AINSF 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 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 *Logic Program Synthesis and Transformation* Yves Deville, 2012-12-06 This volume contains extended versions of papers presented at the Third International Workshop on Logic Program Synthesis and Transformation LOPSTR 93 held in Louvain la Neuve in July 1993 Much of the success of the workshop is due to Yves Deville who served as Organizer and Chair Many people believe that machine support for the development and evolution of software will play a critical role in future software engineering environments Machine support requires the formalization of the artifacts and processes that arise during the software lifecycle Logic languages are unique in providing a uniform declarative notation for precisely describing application domains software requirements and for

prescribing behavior via logic programs Program synthesis and transformation techniques formalize the process of developing correct and efficient programs from requirement specifications The natural intersection of these two fields of research has been the focus of the LOPSTR workshops The papers in this volume address many aspects of software development including deductive synthesis inductive synthesis transformations for optimizing programs and exploiting parallelism program analysis techniques particularly via abstract interpretation meta programming languages and tool support and various extensions to Prolog like languages admitting non Horn clauses functions and constraints Despite the progress represented in this volume the transition from laboratory to practice is fraught with difficulties

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

Semantics of Specification Languages (SoSL) Derek J. Andrews, Jan F. Groote, C.A. Middelburg, 2012-12-06 SoSL was the first International Workshop on Semantics of Specification Languages held from 25-27 October 1993 in Utrecht the Netherlands The workshop was organized by the Department of Philosophy of Utrecht University with financial support from the Nationale Faciliteit Informatica of the Nederlandse Organisatie voor Wetenschappelijk Onderzoek NWO and under the auspices of the British Computer Society's specialist group in Formal Aspects of Computing Science BCS FACS The concern of the workshop was the semantics of specification languages and the issues closely related to this area such as type checking and the justification of proof rules and proof obligations Its aim was the exchange of problems and ideas in this field of formal methods and the identification of common programs of work for further investigation The program of SoSL consisted of 3 invited lectures presenting the developments of the semantics of 3 major specification languages Furthermore there were 16 presentations of submitted papers This volume provides a direct account of the workshop It contains 3 papers that match the invited lectures and the 16 selected papers The editors want to thank all those who have contributed to the workshop the Program Committee and the referees for selecting the contributed papers the invited speakers for their interesting talks the Organizing Committee for all their efforts and of course the participants We have the feeling that the workshop was worthwhile and should be repeated

Rough Sets, Fuzzy Sets and Knowledge Discovery Wojciech P. Ziarko, 2012-12-06 The objective of this book is two fold Firstly it is aimed at bringing to

gether key research articles concerned with methodologies for knowledge discovery in databases and their applications Secondly it also contains articles discussing fundamentals of rough sets and their relationship to fuzzy sets machine learning management of uncertainty and systems of logic for formal reasoning about knowledge Applications of rough sets in different areas such as medicine logic design image processing and expert systems are also represented The articles included in the book are based on selected papers presented at the International Workshop on Rough Sets and Knowledge Discovery held in Banff Canada in 1993 The primary methodological approach emphasized in the book is the mathematical theory of rough sets a relatively new branch of mathematics concerned with the modeling and analysis of classification problems with imprecise uncertain or incomplete information The methods of the theory of rough sets have applications in many sub areas of artificial intelligence including knowledge discovery machine learning formal reasoning in the presence of uncertainty knowledge acquisition and others This spectrum of applications is reflected in this book where articles although centered around knowledge discovery problems touch a number of related issues The book is intended to provide an important reference material for students researchers and developers working in the areas of knowledge discovery machine learning reasoning with uncertainty adaptive expert systems and pattern classification

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

Algebraic Methodology and Software Technology (AMAST'93) Maurice Nivat,Charles Rattray,Teodor Rus,Giuseppe Scollo,2012-12-06

The goal of the AMAST conferences is to foster algebraic methodology as a foundation for software technology and to show that this can lead to practical mathematical alternatives to the ad hoc approaches commonly used in software engineering and development The

first two AMAST conferences held in May 1989 and May 1991 at the University of Iowa were well received and encouraged the regular organization of further AMAST conferences on a biennial schedule The third Conference on Algebraic Methodology and Software Technology was held in the campus of the University of Twente The Netherlands during the first week of Summer 1993 Nearly a hundred people from all continents attended the conference The largest interest received by the AMAST conference among the professionals extended to include the administration organizations as well AMAST 93 was opened by the Rector of the University of Twente followed by the Local Chairman Their opening addresses open this proceedings too The proceedings contains 8 invited papers and 32 selected communications The selection was very strict for 121 submissions were received

Music Education: An Artificial Intelligence Approach Matt Smith, Alan Smaill, Geraint A. Wiggins, 2013-03-09 The research fields of artificial intelligence and music and cognitive musicology are relative newcomers to the many interdisciplinary groupings based around the centre of AI and cognitive science They are concerned with the computational study and emulation of human behaviour with respect to music in many aspects and with varying degrees of emphasis on psychological plausibility Recent publications have included work in such diverse areas as rhythm and pitch perception performance composition and formal analysis Music shares with language the property of giving access to human mental behaviour in a very direct way As such it has the potential to be a very useful domain for AI work Furthermore in the course of time AI related work will surely throw light back onto some or all of the fields to which it is applied Indeed we are already beginning to feel the benefits of the application of AI techniques to music technology It is not surprising therefore that one of the first areas interest for of musical AI study is that of music education There are many ways in which an artificial intelligence or cognitive science approach to music education may be applied for example to automate tuition to explain learning processes to provide metaphors for human computer interaction and so on This collection of papers which is intended to give an impression of both the breadth and depth of the field originated from a workshop entitled Music Education An Artificial Intelligence Approach

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

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Table of Contents 14th Information Retrieval Colloquium Workshops In Computing

1. Understanding the eBook 14th Information Retrieval Colloquium Workshops In Computing
 - The Rise of Digital Reading 14th Information Retrieval Colloquium Workshops In Computing
 - Advantages of eBooks Over Traditional Books
2. Identifying 14th Information Retrieval Colloquium Workshops In Computing
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 14th Information Retrieval Colloquium Workshops In Computing
 - User-Friendly Interface
4. Exploring eBook Recommendations from 14th Information Retrieval Colloquium Workshops In Computing

- Personalized Recommendations
- 14th Information Retrieval Colloquium Workshops In Computing User Reviews and Ratings
- 14th Information Retrieval Colloquium Workshops In Computing and Bestseller Lists
- 5. Accessing 14th Information Retrieval Colloquium Workshops In Computing Free and Paid eBooks
 - 14th Information Retrieval Colloquium Workshops In Computing Public Domain eBooks
 - 14th Information Retrieval Colloquium Workshops In Computing eBook Subscription Services
 - 14th Information Retrieval Colloquium Workshops In Computing Budget-Friendly Options
- 6. Navigating 14th Information Retrieval Colloquium Workshops In Computing eBook Formats
 - ePub, PDF, MOBI, and More
 - 14th Information Retrieval Colloquium Workshops In Computing Compatibility with Devices
 - 14th Information Retrieval Colloquium Workshops In Computing Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14th Information Retrieval Colloquium Workshops In Computing
 - Highlighting and Note-Taking 14th Information Retrieval Colloquium Workshops In Computing
 - Interactive Elements 14th Information Retrieval Colloquium Workshops In Computing
- 8. Staying Engaged with 14th Information Retrieval Colloquium Workshops In Computing
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 14th Information Retrieval Colloquium Workshops In Computing
- 9. Balancing eBooks and Physical Books 14th Information Retrieval Colloquium Workshops In Computing
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 14th Information Retrieval Colloquium Workshops In Computing
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 14th Information Retrieval Colloquium Workshops In Computing
 - Setting Reading Goals 14th Information Retrieval Colloquium Workshops In Computing
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 14th Information Retrieval Colloquium Workshops In Computing

- Fact-Checking eBook Content of 14th Information Retrieval Colloquium Workshops In Computing
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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