

WORKSHOPS IN COMPUTING

Series edited by Professor C.J. van Rijsbergen



Alan F. Smeaton and
Gabriel McDermott (Eds.)

AI and Cognitive Science '89



Springer-Verlag

**Ai And Cognitive Science 89 Proceedings Dublin City
University 14 15 September 1989 Workshops In
Computing**

Alan Smeaton, Gabriel McDermott



Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing:

AI and Cognitive Science '92 Kevin Ryan, Richard F.E. Sutcliffe, 2012-12-06 The annual Irish Conferences on Artificial Intelligence and Cognitive Science have become the major forum in Ireland for the discussion of various aspects of artificial intelligence. Their aim is to provide a forum where researchers can present their current work and where industrial and commercial users can relate this work to their own practical needs and experiences. Although the emphasis of the conferences is on Irish research, there are also important contributions from Europe, Australia, Canada, and the USA. This volume is based on the proceedings of the Fifth Irish Conference on Artificial Intelligence and Cognitive Science AICS 92, which was held at the University of Limerick, Ireland, from 10-11 September 1992. The conference was divided into 6 sessions covering knowledge representation, cognitive foundations, natural language, 1 and 2 learning, and expert systems, and novel aspects of artificial intelligence and cognitive science. Because of the high number of papers submitted to the conference, a poster session was run in addition to the plenary sessions. Each paper presented at the poster session is represented in this volume by a four-page abstract. Among the specific topics covered in this volume are a model-based theory of conceptual combination, the nature and development of reasoning strategies, word recognition as a parsing problem, a knowledge-based autonomous vehicle system for emergency management, support for the construction and use of scope-neutral discourse entities, computer-based iconic communication, and exceptions in multiple inheritance systems. AI and Cognitive Science 92 provides a comprehensive record of current research into this important field. It will be of interest to researchers, lecturers, and postgraduate students in a variety of disciplines related to artificial intelligence and cognitive science.

AI and Cognitive Science '90 Michael F. McTear, Norman Creaney, 2013-03-14 This book contains the edited versions of papers presented at the 3rd Irish Conference on Artificial Intelligence and Cognitive Science, which was held at the University of Ulster at Jordanstown, Northern Ireland, on 20-21 September 1990. The main aims of this annual conference are to promote AI research in Ireland, to provide a forum for the exchange of ideas amongst the different disciplines concerned with the study of cognition, and to provide an opportunity for industry to see what research is being carried out in Ireland and how they might benefit from the results of this research. Although most of the participants at the conference came from universities and companies within Ireland, a positive feature of the conference was the extent of interest shown outside of Ireland, resulting in participants from the USA, Canada, Austria, and England. The keynote speakers were Professor David Chin, University of Hawaii, and Professor Derek Partridge, University of Exeter, and the topics included machine learning, AI tools and methods, expert systems, speech, vision, natural language, reasoning with uncertain information, and explanation. The sponsors of the conference were Digital Equipment Co., Galway, and the Industrial Development Board for Northern Ireland.

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 **AI and Cognitive**

Science '89 Alan Smeaton, Gabriel McDermott, 2012-12-06 This volume contains the texts of papers presented at the Second Irish Conference on Artificial Intelligence and Cognitive Science held at Dublin City University in September 1989 This Conference has now become the major annual forum in Ireland for the presentation and discussion of current research work in the multi disciplinary area of Artificial Intelligence Papers in this volume have been divided into seven sections which vary in their subject matter Image processing human computer interaction planning applications and theory of expert systems learning speech and natural language processing and semantics represents as broad a spectrum of AI and AI related topics as can be found in current AI research This harmonises quite well with the aims and scope of the AICS 89 conference which were to provide a forum for industry and academic research to discuss AI and AI related topics and we were delighted that such a broad coverage of topics was achieved Despite the broad nature however none of the papers are primarily review articles each paper presents new research results within its own specific area *5th Refinement Workshop* Cliff B.

Jones, Roger C. Shaw, Tim Denvir, 2013-03-14 Refinement is the term used to describe systematic and formal methods of specifying hardware and software and transforming the specifications into designs and implementations The value of formal methods in producing reliable hardware and software is widely appreciated by academics and workers in industry despite the fact that certain research areas such as the application to industrial scale problems are still in their infancy This volume contains the papers presented at the 5th Refinement Workshop held in London 8-10 January 1992 Its theme was the theory and practice of software specifications which is the transformation of formal software specifications into more correct specifications designs and codes This has been an important area of research for the last 5 years and the workshop addressed specific issues and problems related to it Among the topics discussed in this volume are the role of refinement in software development parallel designs and implementations methods and tools for verification of critical properties refinement and confidentiality concurrent processes as objects the compliance of Ada programs with Z specifications and a

tactic driven refinement tool This is the latest refinement workshop proceedings to be published in the Workshops in Computing series the 3rd and 4th workshops having appeared in 1990 and 1991 respectively It will be of interest to academic and industrial researchers postgraduate students and research oriented developers in the computer industry

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

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

7th UK Computer and Telecommunications Performance Engineering Workshop Jane E. Hillston,Peter J.B. King,Robert J. Pooley,2013-06-29

Performance engineering is a fast moving field where advances in technology mean that new issues constantly need to be addressed In response to this the UK Computer and Telecommunications Performance Engineering workshops were set up in 1985 to provide a valuable opportunity for the discussion and exchange of ideas They have subsequently become well established as the focus for academic and industrial practitioners from the UK and Europe with an interest in performance and modelling and analysis This volume contains the 16 papers which were presented at the 7th annual workshop held in Edinburgh in July 1991 The workshop highlighted various aspects of parallel computing an area which is attracting an increasing amount of interest and the work presented in these papers is of particular interest as the contributors used real analysis to evaluate their models The papers cover an unusually wide range of topics both practical and theoretical including advances in queueing theory common performance problems and their solutions assessments of available tools and presentations of new theoretical results The result is an extremely comprehensive coverage of this important and challenging field This volume provides an up to date assessment of work being carried out by performance engineers in the UK and Europe and will be an invaluable reference book for researchers and practitioners wishing to familiarise themselves with the benefits of performance and analysis

Asynchronous Digital Circuit Design Graham Birtwistle, Alan Davis, 2013-04-17

As the costs of power and timing become increasingly difficult to manage in traditional synchronous systems designers are being forced to look at asynchronous alternatives Based on reworked and expanded papers from the VII Banff Higher Order Workshop this volume examines asynchronous methods which have been used in large circuit design ranging from initial formal specification to more standard finite state machine based control models Written by leading practitioners in the area the papers cover many aspects of current practice including practical design silicon compilation and applications of formal specification It also includes a state of the art survey of asynchronous hardware design The resulting volume will be invaluable to anyone interested in designing correct asynchronous circuits which exhibit high performance or low power operation

Algebra of Communicating Processes Alban Ponse, Christiaan Verhoef, Sebastiaan F.M. van Vlijmen, 2012-12-06 ACP the Algebra of Communicating Processes is an algebraic approach to the study of concurrent processes initiated by Jan Bergstra and Jan Willem Klop in the early eighties These proceedings comprise the contributions to ACP94 the first workshop devoted to ACP The workshop was held at Utrecht University 16-17 May 1994 These proceedings are meant to provide an overview of current research in the area of ACP They contain fifteen contributions The first one is a classical paper on ACP by J.A. Bergstra and J.W. Klop The Algebra of Recursively Defined Processes and the Algebra of Regular Processes Report IW 235-83 Mathematical Centre Amsterdam 1983 It serves as an introduction to the remainder of the proceedings and indeed as a general introduction to ACP An extended abstract of this paper is published under the same title in the ICALP 84 proceedings Of the remaining contributions three were submitted by the invited speakers and the others were selected by the programme committee As for the presentations Jos Baeten, Rob van Glabbeek

Jan Friso Groote and Frits Vaandrager were each invited to deliver a lecture. A paper relating to Frits Vaandrager's lecture has already been submitted for publication elsewhere and is not therefore included in these proceedings. Gabriel Ciobanu, one of our guests, gave an impression of his work in an extra lecture. Furthermore, ten presentations were given on the basis of selected papers.

Z User Workshop, London 1992 J.P. Bowen, J.E. Nicholls, 2013-03-09. The Z notation has been developed at the Programming Research Group at the Oxford University Computing Laboratory and elsewhere for over a decade. It is now used by industry as part of the software and hardware development process in both Europe and the USA. It is currently undergoing BSI standardisation in the UK and has been proposed for ISO standardisation internationally. In recent years, researchers have begun to focus increasingly on the development of techniques and tools to encourage the wider application of Z and other formal methods and notations. This volume contains papers from the Seventh Annual Z User Meeting held in London in December 1992. In contrast to previous years, the meeting concentrated specifically on industrial applications of Z and a high proportion of the participants came from an industrial background. The theme is well represented by the four invited papers. Three of these discuss ways in which formal methods are being introduced and the fourth presents an international survey of industrial applications. It also provides a reminder of the improvements which are needed to make these methods an accepted part of software development. In addition, the volume contains several submitted papers on the industrial use of Z, two of which discuss the key area of safety-critical applications. There are also a number of papers related to the recently completed ZIP project. The papers cover all the main areas of the project, including methods, tools, and the development of a Z Standard, the first publicly available version of which was made available at the meeting. Finally, the volume contains a select Z bibliography and a section on how to access information on Z through comp specification. *z*, the international computer-based USENET newsgroup Z User Workshop London 1992, 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.

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

Building Interactive Systems Philip Gray, Roger Took, 2013-03-09 Architectures and tools are two important considerations in the construction of interactive computer systems The former is concerned with the optimal structural organisation of systems and the latter with the effective support of the design and management of user interfaces They are regarded as the areas of research most likely to contribute to the development of existing interactive systems in particular by providing improved architectures capable of supporting new styles of interaction and more sophisticated software tools to improve productivity This volume combines the proceedings of two workshops held in York and Glasgow which concentrated on architectures and tools respectively In doing so it addresses the problems of user interface construction from two complementary viewpoints and provides alternative perspectives on many of the central issues Some of the papers are published in expanded form to provide a more comprehensive coverage of the topics and two additional papers have been included which offer a useful insight into issues raised by the workshops The papers address formal and theoretical concerns as well as academic and commercial ones Specific topics covered include novel input models architectures for real time systems and object oriented user interface tools for X widgets NeWS and Smalltalk based applications The papers also include presentations of new tools and architectural designs

Building Interactive Systems Architectures and Tools provides the most extensive recent account of research into the relationship between architectures and tools in the construction of interactive computer systems and will be of interest to researchers postgraduate students and software developers

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

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

Declarative Programming, Sasbachwalden 1991 John Darlington, Roland Dietrich, 2013-12-21 Declarative programming languages are based on sound mathematical foundations which means that they offer many advantages for software development These advantages include their powerful descriptive capabilities the availability of program analysis techniques and the potential for parallel execution This volume contains the proceedings of a seminar and workshop organised by the Esprit Basic Research Action Phoenix in collaboration with the Esprit Basic Research Action Integration Both these groups have been closely involved in investigating the foundations of declarative programming and the integration of various language paradigms as well as the developing aspects of related technology The main aim of the seminar and workshop was to provide a forum for the results of this work together with contributions from other researchers in the same field These papers cover a variety of important technical areas such as foundations and languages program transformation and analysis integrated approaches implementation techniques abstract machines and programming methodology The resulting volume provides an in depth picture of current research into declarative programming It will be of special interest to researchers in programming languages and methodology students of artificial intelligence and anyone involved in industrial research and development

Code Generation — Concepts,

Tools, Techniques Robert Giegerich, S.L. Graham, 2013-03-09 Code Generation Concepts Tools Techniques is based upon the proceedings of the Dagstuhl workshop on code generation which took place from 20-24 May 1991. The aim of the workshop was to evaluate current methods of code generation and to indicate the main directions which future research is likely to take. It provided an excellent forum for the exchange of ideas and had the added advantage of bringing together European and American experts who were unlikely to meet at less specialised gatherings. This volume contains 14 of the 30 papers presented at the Dagstuhl workshop. The papers deal mainly with the following four topics: tools and techniques for code generation; code generation for parallel architectures; register allocation and phase ordering problems; and formal methods and validations. Most of the papers assess the progress of on-going research work, much of which is published here for the first time, while others provide a review of recently completed projects. The volume also contains summaries of two discussion groups which looked at code generation tools and parallel architectures. As a direct result of one of these discussions, a group of the participants have collaborated to make a pure BURS system available for public distribution. This system, named BURG, is currently being beta tested. Code Generation Concepts Tools Techniques provides a representative summary of state-of-the-art code generation techniques and an important assessment of possible future innovations. It will be an invaluable reference work for researchers and practitioners in this important area.

Logic Program Synthesis and Transformation, 1993 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.

Z User Workshop, York 1991 J. E. Nicholls, 2012-12-06 In ordinary mathematics, an equation can be written down which is syntactically correct but for which no solution exists. For example

consider the equation $x^2 = 1$ defined over the real numbers there is no value of x which satisfies it Similarly it is possible to specify objects using the formal specification language Z [3, 4] which can not possibly exist Such specifications are called inconsistent and can arise in a number of ways Example 1 The following Z specification of a function f from integers to integers

$$f : \mathbb{Z} \rightarrow \mathbb{Z} \quad \text{if } x \in \mathbb{Z} \quad \text{then } f(x) \in \mathbb{Z}$$

is inconsistent because axiom i gives $f(0) = 1$ while axiom ii gives $f(0) = 2$ This contradicts the fact that f was declared as a function that is f must have a unique result when applied to an argument Hence no such f exists Furthermore iff $0 = 1$ and $0 = 2$ then $1 = 2$ can be deduced From $1 = 2$ anything can be deduced thus showing the danger of an inconsistent specification Note that all examples and proofs start with the word Example or Proof and end with the symbol \square

This book delves into Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing. Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing
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 - Chapter 3: Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing in Everyday Life
 - Chapter 4: Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing. The first chapter will explore what Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing is, why Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing is vital, and how to effectively learn about Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing.
3. In chapter 2, the author will delve into the foundational concepts of Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing. The second chapter will elucidate the essential principles that need to be understood to grasp Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing in its entirety.
4. In chapter 3, this book will examine the practical applications of Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing in daily life. The third chapter will showcase real-world examples of how Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Ai And Cognitive Science 89 Proceedings Dublin City University 14

15 September 1989 Workshops In Computing in specific contexts. The fourth chapter will explore how Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Ai And Cognitive Science 89 Proceedings Dublin City University 14 15 September 1989 Workshops In Computing.

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