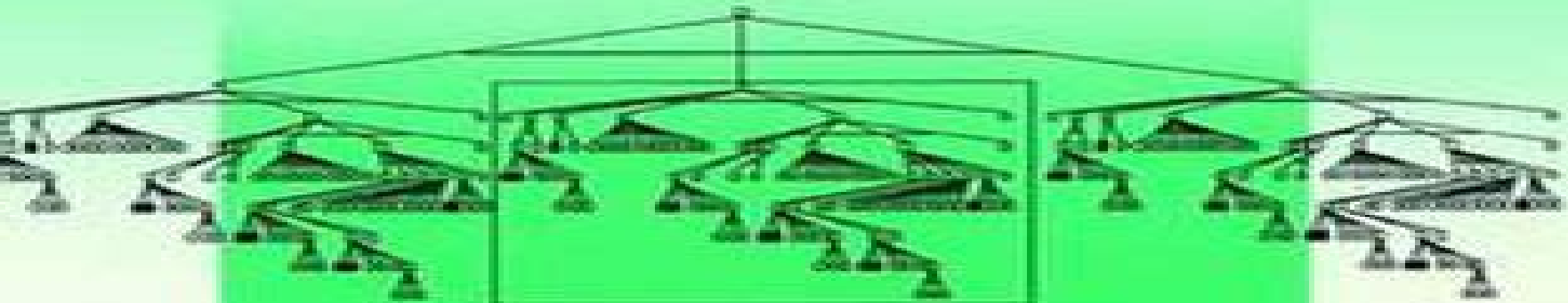


THE TRANSPARENT PROLOG MACHINE



Marc Eisenstadt
Mike Brayshaw
Jocelyn Paine

Transparent Prolog Machine

Various



Transparent Prolog Machine:

The Transparent Prolog Machine: Visualizing Logic Programs Marc Eisenstadt, Mike Brayshaw, Jocelyn Paine, 1991-10-31
The Transparent Prolog Machine TPM was one of the most successful products of the UK's Alvey programme. Developed at the Open University UK in collaboration with Expert Systems International, TPM is a new approach to debugging Prolog programs and to teaching the Prolog language. This book will be of particular value to Prolog programmers in Artificial Intelligence, Computer Scientists in AI, human computer interaction and graphics researchers and practitioners. The style of graphical presentation developed within TPM, AORTA diagrams, is now used not only in TPM software but also in Open University teaching materials for Prolog; it is widely accepted as the best graphical visualization of Prolog execution. The book presents both the theory behind the TPM graphical debugger and a detailed account of its operation, including worked examples, code abstractions and a tutorial. The Transparent Prolog Machine (TPM) Marc Eisenstadt, Mike Brayshaw, Open University. Human Cognition Research Laboratory, 1986

Adding Data and Procedure Abstraction to the Transparent Prolog Machine (TPM) Mike Brayshaw, Marc Eisenstadt, Open University. Human Cognition Research Laboratory, 1988

Logic Programming and Automated Reasoning Andrei Voronkov, 1992-07 This volume contains the proceedings of LPAR 92, the international conference on logic programming and automated reasoning held in St Petersburg in July 1992. The aim of the conference was to bring together researchers from the Russian and the international logic programming and theorem proving communities. The topics of interest covered by papers in the volume include automated theorem proving, non-monotonic reasoning, applications of mathematical logic to computer science, deductive databases, implementation of declarative concepts and programming in non-classical logics. LPAR 92 is the successor of the First and Second Russian Conferences on Logic Programming held in 1990 and 1991 respectively, the proceedings of which were published in LNAI Vol 592.

Novice Programming Environments Marc Eisenstadt, Mark Keane, Tim Rajan, 2018-05-15
This book, originally published in 1992, encapsulates ten years of research at the Open University's Human Cognition Research Laboratory. The research investigates the problems of novice programmers and is strongly oriented toward the design and implementation of programming environments aimed at eliminating or easing novices' problems. A range of languages is studied: Pascal, SOLO, Lisp, Prolog and Knowledge Engineering Programming. The primary emphasis of the empirical studies is to gain some understanding of novices' mental models of the inner workings of computers. Such erroneous models are constructed by novices in their own heads to account for the idiosyncrasies of particular programming languages. The primary emphasis of the implementations described in the book is the provision of automatic debugging aids: i.e. artificial intelligence programs which can analyse novices' buggy programs and make sense of them, thereby providing useful advice for the novices. Another related strand taken in some of the work is the concept of pre-emptive design: i.e. the provision of tools such as syntax-directed editors and graphical tracers which help programmers avoid many frequently occurring errors.

A common thread throughout the book is its Cognitive Science Artificial Intelligence orientation AI tools are used for instance to construct simulation models of subjects writing programs in order to provide insights into what their deep conceptual errors are At the other extreme AI programs which were developed in order to help student debug their programs are observed empirically in order to ensure that they provide facilities actually needed by real programmers This book will be of great interest to advanced undergraduate postgraduate and professional researchers in Cognitive Science Artificial Intelligence and Human Computer Interaction *Advanced Prolog* Peter Ross,1989 **User-Centred Requirements for**

Software Engineering Environments David J. Gilmore,Russel L. Winder,Francoise Detienne,2013-06-29 The idea for this workshop originated when I came across and read Martin Zelkowitz s book on Requirements for Software Engineering Environments the proceedings of a small workshop held at the University of Maryland in 1986 Although stimulated by the book I was also disappointed in that it didn t adequately address two important questions Whose requirements are these and Will the environment which meets all these requirements be usable by software engineers And thus was the decision made to organise this workshop which would explicitly address these two questions As time went by setting things up it became clear that our workshop would happen more than five years after the Maryland workshop and thus at the same time as addressing the two questions above this workshop would attempt to update the Zelkowitz approach Hence the workshop acquired two halves one dominated by discussion of what we already know about usability problems in software engineering and the other by discussion of existing solutions technical and otherwise to these problems This scheme also provided a good format for bringing together those in the HeI community concerned with the human factors of software engineering and those building tools to solve acknowledged but rarely understood problems *Routledge Library Editions: Artificial Intelligence*

Various,2021-06-23 Artificial Intelligence AI a term coined in the 1950s actually dates back as far as 1943 Now very much in the public consciousness AI research has fallen in and out of favour over the years Routledge Library Editions Artificial Intelligence 10 Volumes brings together as one set or individual volumes a small interdisciplinary series of previously out of print titles originally published between 1970 and 1994 Covering ground in computer science literature philosophy psychology psychotherapy and sociology this set is a fascinating insight into the development of ideas surrounding AI

Studying the Novice Programmer E. Soloway,J. C. Spohrer,2013-12-02 Parallel to the growth of computer usage in society is the growth of programming instruction in schools This informative volume unites a wide range of perspectives on the study of novice programmers that will not only inform readers of empirical findings but will also provide insights into how novices reason and solve problems within complex domains The large variety of methodologies found in these studies helps to improve programming instruction and makes this an invaluable reference for researchers planning studies of their own Topics discussed include historical perspectives transfer learning bugs and programming environments *IJCAI 87* John McDermott,1987 *Logic Programming and Automated Reasoning* ,1992 **Logic Programming** ,1988 1988 papers

presented at the joint meeting of the Fifth International Conference on Logic Programming and the Fifth Symposium on Logic Programming ECAI 88 Bernd Radig,1988 **IJCAI-91** John Mylopoulos,Ray Reiter,1991 **Encyclopedia of Software Engineering** ,1994 *Proceedings of the ... International Joint Conference on Artificial Intelligence* ,1991

Prometheus Richard Broughton,Jocelyn Paine,Masoud Yazdani,1991 Prometheus is an advanced programming environment for the development of knowledge based software It owes its comparative simplicity consistency and power to the ideas of logic programming Prometheus while using logic as the basis of representation language offers frames to allow for natural representation of structured domains The book starts with a general Representation Language and the Development Environment It ends with a study of how Prometheus and Prolog can be combined for advanced programming projects **Multimedia Interface Design in Education** Alistair D. N. Edwards,Simon Holland,1992 Proceedings of the Seventh International Conference on Genetic Algorithms Thomas Bäck,1997 Proceedings of the biennial International Conference on Genetic Algorithms available for 1989 present **Human Factors and Typography for More Readable Programs** Ronald M. Baecker,Aaron Marcus,1990 This book shows how increased attention to human factors and typographical principles can enhance the readability of computer programs and their documentation It illustrates such enhancement by suggesting a new style for C documentation Any language could have been used as an example and similar factors and principles would apply Specialists in human factors and computer typography as well as programmers and software engineers will find this book a rich source of interesting ideas on how computer programs might be made easier to read and maintain and how program documentation might be made more accessible to users ACM Press

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Transparent Prolog Machine Introduction

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