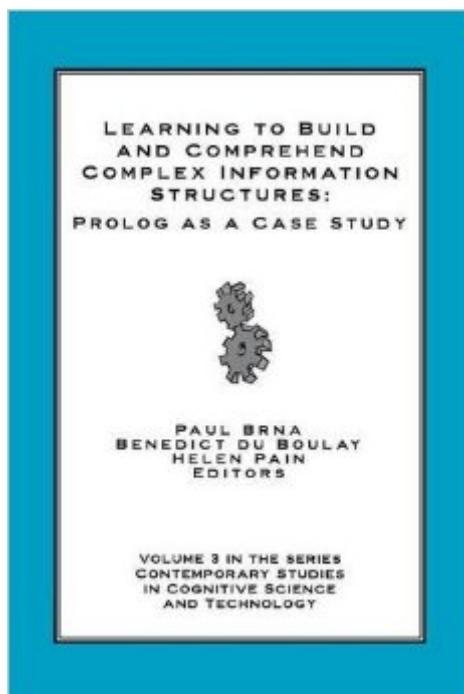


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# Learning To Build And Comprehend Complex Information Structures: Prolog As A Case Study (New Directions In Computers And Composition Studies)



## **Synopsis**

Complex information structures are found in many disciplines including physics, genetics, biology and all branches of the information sciences. The current increasing, widespread use of information technology in all academic activities' emphasizes the need to understand how people construct and use such structures. The practices and activities found within the community of programmers provides a rich study area. The contents of this book are devoted to fundamental research that directly informs: the teaching community about some of the recent issues and problems that should help readers to increase their awareness when designing systems to support teaching, learning and using information technology; the psychology of the programming community about work in the area of learning to build, and debug programs; and the software engineering community in terms of the issues that implementors need to take into account when designing and building tools and environments for computer-based systems.

## **Book Information**

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## **Customer Reviews**

This is a wonderful book for many reasons, but the biggest wonder was that it was ever published! It documents obscure research about an obscure programming language--and the point of the research is to find out why it is so obscure! If you are a big fan of prolog, but are still wondering why it didn't take off, this book will tell you. For me, the biggest take away messages are these:1. The very uniformity of the syntax--which makes Prolog "beautiful" in a sense--is a source of obscurity,

because since everything is just clauses, its hard to tell what any particular clause is doing. In, say, C, its easy to tell if something is a for-loop or not--the keyword "for" is right there. But in prolog, iteration over a range of values looks pretty much like any other programming statement. There is no syntactic differentiation to help you understand the semantics.2. In order to understand a prolog program, you pretty much have to be a master of redaction criticism. For example, a prolog program to sum up the values of all the integers in a list of integers is typically written by taking the code for the member/2 function and editing it--adding here an accumulator, there a summation, etc. This is called "Skeletons and Techniques" by Lee Naish and other exponents. It is a very powerful way to develop prolog programs, but someone else wanting to understand your prolog program must first understand how member/2 works, then they must work backwards from the changes you've made to it, first determining how you've edited member/2 and what your editorial changes mean, before they can understand your code. Its very tricky!Talk about a book which isn't for everyone! But if you are in the business of designing languages, there's lots of interesting insights here just waiting to be gleaned.

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