

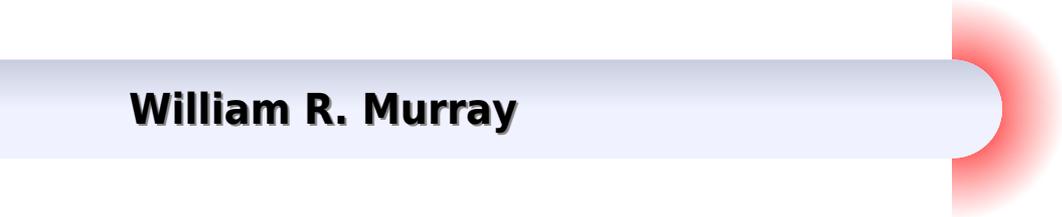
*Automatic Programme Debugging for  
Intelligent Tutoring Systems (Research  
Notes in Artificial Intelligence)*

Murray, W.

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# Automatic Program Debugging For Intelligent Tutoring Systems

**William R. Murray**



## **Automatic Program Debugging For Intelligent Tutoring Systems:**

Automatic Program Debugging for Intelligent Tutoring Systems University of Texas at Austin. Artificial Intelligence Laboratory, William Raymond Murray, 1986 Abstract Program debugging is an important part of the domain expertise required for intelligent tutoring systems that teach programming languages This thesis explores the process by which student programs can be automatically debugged in order to increase the instructional capabilities of these systems This research presents a methodology and implementation for the diagnosis and correction of nontrivial recursive programs In this approach recursive programs are debugged by repairing induction proofs in the Boyer Moore Logic The potential of a program debugger to automatically debug widely varying novice programs in a nontrivial domain is proportional to its capabilities to reason about computational semantics By increasing these reasoning capabilities a more powerful and robust system can result

**Talus**, 1986 Automatic Program Debugging for Intelligent Tutoring Systems William R. Murray, 1988 *Talus: Automatic Program Debugging for Intelligent Tutoring Systems* University of Texas at Austin. Artificial Intelligence Laboratory, William R. Murray, 1986 Talus relies on its abilities to reason about computational semantics to perform algorithm recognition infer code teleology and to automatically detect and correct nonsyntactic errors in student program written in a restricted but nontrivial subset of LISP Solutions can vary significantly in algorithm functional decomposition role of variables data flow control flow values returned by functions LISP primitives used and identifier used Solutions can consist of multiple functions each containing multiple bugs Empirical evaluation demonstrates that Talus achieves high performance in debugging widely varying student solutions to challenging tasks

**Automatic Program Debugging for a Prolog Intelligent Tutoring System** University of Edinburgh. Department of Artificial Intelligence, C. Looi, P. Ross, 1987 Automated and Algorithmic Debugging Peter A. Fritzson, 1993-11-10 Debugging has always been a costly part of software development and many attempts have been made to provide automatic computer support for this task Automated debugging has seen major developments over the last decade One successful development is algorithmic debugging which originated in logic programming but was later generalized to concurrent imperative and lazy functional languages Important advances have also been made in knowledge based program debugging and in approaches to automated debugging based on static and dynamic program slicing based on dataflow and dependence analysis technology This is the first collected volume of papers on automated debugging and presents latest developments tutorial papers and surveys

**Intelligent Tutoring Systems** Claude Frasson, Gilles Gauthier, 1992-05-27 This volume of the Encyclopaedia offers a systematic introduction and a comprehensive survey of the theory of complex spaces It covers topics like semi normal complex spaces cohomology the Levi problem  $q$  convexity and  $q$  concavity It is the first survey of this kind The authors are internationally known outstanding experts who developed substantial parts of the field The book contains seven chapters and an introduction written by Remmert describing the history of the subject The book will be very useful to graduate students

and researchers in complex analysis algebraic geometry and differential geometry Another group of readers will consist of mathematical physicists who apply results from these fields

**Intelligent Tutoring Systems**, 1996 *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

**Novice Programming Environments** Marc Eisenstadt, Mark T. Keane, Tim Rajan, 1992 The result of ten years of research this book investigates the problems of novice programmers orientated towards the design and implementation of programming environments aimed at eliminating or easing novice s problems

**Towards Sustainable and Scalable Educational Innovations Informed by the Learning Sciences** Chee-Kit Looi, David H. Jonassen, Mitsuru Ikeda, 2005 One of the basic principles that underpin the learning sciences is to improve theories of learning through the design of powerful learning environments that can foster meaningful learning Learning sciences researchers prefer to research learning in authentic contexts This book focuses on learning sciences in the Asia Pacific context

*Artificial Intelligence and Tutoring Systems* Etienne Wenger, 1987 *Artificial Intelligence and Tutoring Systems* Proceedings of the Ninth International Joint Conference on Artificial Intelligence International Joint Conferences on Artificial Intelligence, 1985

*Computational Intelligence*, 1994 **Proceedings of the 1988 IEEE International Conference on Systems, Man and Cybernetics, August 8-12, 1988, Beijing and Shenyang, China**, 1988 **The Artificial Intelligence Compendium: Abstracts II**, 1988 Cognition and Computer Programming Karl Friedrich Wender, Franz Schmalhofer, Heinz-Dieter Böcker, 1995 The International Journal of Applied Engineering Education, 1990 *Intelligent Tutoring Systems* Barry P. Goettl, 1998-07-29 This book constitutes the refereed proceedings of the Fourth International Conference on Intelligent Tutoring Systems ITS 98 held in San Antonio Texas USA in August 1998 The 60 revised full papers presented were carefully reviewed and selected for inclusion in the proceedings The book is organized in topical sections on architectures for ITS design and interface issues tutoring and authoring tools collaborative learning knowledge structure and representation teaching and learning strategies applications of ITS student modeling educational agents deploying ITS and Web based ITS

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