

Prelude To Programming 6th Edition

Proceedings of the 6th Banff Knowledge Acquisitions for Knowledge-Based Systems Workshop, Banff Conference Center, Banff, Alberta, Canada, October 6-11,1991 ; in Cooperation with the American Association for Artificial Intelligence
Programs, Workshop, Carnegie Mellon University, Pittsburgh, PA, June 6-8, 1983
Computing American Book Publishing Record Books in Series Directory of Published Proceedings
District). Records and Briefs International Books in Print, 1995
Reviews The Cumulative Book Index Robomatix Index (Japan) Henri E. Bal Edmund Melson Clarke (Jr.) Timothy Colburn Society for Industrial and Applied Mathematics Stewart Venit California (State). Barbara Hopkinson Library of Congress
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this book looks the variety of modern programming languages and uses them to illustrate the following major programming paradigms imperative object oriented functional and logic languages and languages for parallel and distributed systems

among the most important problems confronting computer science is that of developing a paradigm appropriate to the discipline proponents of formal methods

such as john mccarthy c a r hoare and edgar dijkstra have advanced the position that computing is a mathematical activity and that computer science should model itself after mathematics opponents of formal methods by contrast suggest that programming is the activity which is fundamental to computer science and that there are important differences that distinguish it from mathematics which therefore cannot provide a suitable paradigm disagreement over the place of formal methods in computer science has recently arisen in the form of renewed interest in the nature and capacity of program verification as a method for establishing the reliability of software systems a paper that appeared in communications of the acm entitled program verification the very idea by james h fetzer triggered an extended debate that has been discussed in several journals and that has endured for several years engaging the interest of computer scientists both theoretical and applied and of other thinkers from a wide range of backgrounds who want to understand computer science as a domain of inquiry the editors of this collection have brought together many of the most interesting and important studies that contribute to answering questions about the nature and the limits of computer science these include early papers advocating the mathematical paradigm by mccarthy naur r floyd and hoare in part i others that elaborate the paradigm by hoare meyer naur and scherlis and scott in part ii challenges limits and alternatives explored by c floyd smith blum and naur in part iii and recent work focusing on formal verification by demillo lipton and perlis fetzer cohn and colburn in part iv it provides essential resources for further study this volume will appeal to scientists philosophers and laypersons who want to understand the theoretical foundations of computer science and be appropriately positioned to evaluate the scope and limits of the discipline

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independent flexible presentation the text has been designed so that instructors can use it for students at various levels features that help solidify concepts examples exercises and programming challenges help students understand how concepts in the text apply to real life programs real programming experience with raptor students gain first hand programming experience through the optional use of raptor a free flowchart based programming environment support learning resources are available to expand on the topics presented in the text

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