Computing Tomorrow



Future research directions in computer science

Edited by IAN WAND and ROBIN MILNER

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First published in 1996, this collection of essays by distinguished computer scientists celebrates the achievements of research and speculates about the unsolved problems in computer science that require future investigation. Since the subject stretches from technology in the field, through engineering design to foundations in mathematics, there is a wide variety of concerns and approaches among the authors. The book's purpose is to show that long-term research in computer science is crucial and that it must not be driven solely by commercial considerations. The authors do not shirk the difficult aspects of their topics, but try to expose them in the simplest terms possible without diluting them, in order that the reader can understand the issues involved. Thus the book also represents a broad overview of much of the state of knowledge and future expectations of computer science, illustrating that it is much more than a technology and it is a fully fledged and growing intellectual discipline with its own engineering principles and its own scientific concepts and models. It will be stimulating reading because it represents the views of prominent authorities who have had a significant impact on the direction of innovation, research and development in computer science.

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目录:

Computing Tomorrow_下载链接1_

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评论

 Computing Tomorrow_	下载链接1
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