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An Interdisciplinary Approach

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KEVIN WAYNE

Computer Science An Interdisciplinary Approach

**Samuel B. Fee, Amanda M. Holland-
Minkley, Thomas E. Lombardi**



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Computer Science Robert Sedgewick, Kevin Wayne, 2016-06-17 Named a Notable Book in the 21st Annual Best of Computing list by the ACM Robert Sedgewick and Kevin Wayne's *Computer Science An Interdisciplinary Approach* is the ideal modern introduction to computer science with Java programming for both students and professionals Taking a broad applications based approach Sedgewick and Wayne teach through important examples from science mathematics engineering finance and commercial computing The book demystifies computation explains its intellectual underpinnings and covers the essential elements of programming and computational problem solving in today's environments The authors begin by introducing basic programming elements such as variables conditionals loops arrays and I/O Next they turn to functions introducing key modular programming concepts including components and reuse They present a modern introduction to object oriented programming covering current programming paradigms and approaches to data abstraction Building on this foundation Sedgewick and Wayne widen their focus to the broader discipline of computer science They introduce classical sorting and searching algorithms fundamental data structures and their application and scientific techniques for assessing an implementation's performance Using abstract models readers learn to answer basic questions about computation gaining insight for practical application Finally the authors show how machine architecture links the theory of computing to real computers and to the field's history and evolution For each concept the authors present all the information readers need to build confidence together with examples that solve intriguing problems Each chapter contains question and answer sections self study drills and challenging problems that demand creative solutions Companion web site cs.princeton.edu/java contains Extensive supplementary information including suggested approaches to programming assignments checklists and FAQs Graphics and sound libraries Links to program code and test data Solutions to selected exercises Chapter summaries Detailed instructions for installing a Java programming environment Detailed problem sets and projects Companion 20 part series of video lectures is available at informit.com title 9780134493831

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Interdisciplinary Approach to Computer Science and Technology Tom Halt, 2018-02-07 Computer science is a fast growing field and has occupied an important place in today's time. The subject of computer science studies the theories and experiments used in building new designs of computers. The two main areas of computer science are theoretical computer science and applied computer science. This book studies, analyses, and upholds the pillars of computer science and related technology. A number of latest researches have been included to keep the readers up to date with the global concepts in this area of study.

The Development of Computer Science: A Sociocultural Perspective Matti Tedre, 2006

Instructor's Manual to Accompany Introduction to Computer Science Terry M. Walker, 1972

New Directions for Computing Education Samuel B. Fee, Amanda M. Holland-Minkley, Thomas E. Lombardi, 2017-04-17 Why should every student take a computing course? What should be the content of these courses? How should they be taught and by whom? This book addresses these questions by identifying the broader reaches of computing education: problem solving and critical thinking as a general approach to learning. The book discusses new approaches to computing education and considers whether the modern ubiquity of computing requires an educational approach that is inherently interdisciplinary and distinct from the traditional computer science perspective. The alternative approach that the authors advocate derives its mission from an intent to embed itself within an interdisciplinary arts and science context. An interdisciplinary approach to computing is compellingly valuable for students and educational institutions alike. Its goal is to support the educational and intellectual needs of students with interests in the entire range of academic disciplines. It capitalizes on students' focus on career development and employers' demand for technical while also engaging a diverse student body that may not possess a pre-existing interest in computing for computing's sake. This approach makes directly evident the applicability of computer science topics to real-world interdisciplinary problems beyond computing and recognizes that technical and computational abilities are essential within every discipline. The book offers a valuable resource for computer science and computing education instructors who are presently rethinking their curricula and pedagogical approaches and are actively trying new methods in the classroom. It will also benefit graduate students considering a future of teaching in the field as well as administrators in both higher education and high schools interested in becoming conversant in the discourse surrounding the future of computing education.

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