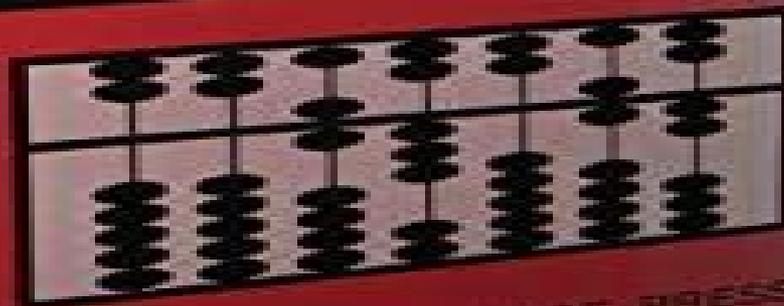


THE NATURE OF COMPUTATION:

AN INTRODUCTION TO
COMPUTER SCIENCE

IRA POHL and ALAN SHAW



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The Nature Of Computation Introduction To Computer Science

Ira Pohl, Alan C. Shaw



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The Nature of Physical Computation Oron Shagrir, 2022 Computing systems are ubiquitous in contemporary life Even the brain is thought to be a computing system of sorts But what does it mean to say that a given organ or system computes What is it about laptops smartphones and nervous systems that they are deemed to compute and why does it seldom occur to us to describe stomachs hurricanes rocks or chairs that way These questions are key to laying the conceptual foundations of computational sciences including computer science and engineering and the cognitive and neural sciences Oron Shagrir here provides an extended argument for the semantic view of computation which states that semantic properties are involved in the nature of computing systems The first part of the book provides general background Although different in scope these chapters have a common theme namely that the linkage between the mathematical theory of computability and the notion of physical computation is weak The second part of the book reviews existing non semantic accounts of physical computation Shagrir analyzes three influential accounts in greater depth and argues that none of these accounts is satisfactory but each of them highlights certain key features of physical computation that he eventually adopts in his own semantic account of physical computation a view that rests on a phenomenon known as simultaneous implementation or indeterminacy of computation Shagrir completes the characterization of his account of computation and highlights the distinctive feature of computational explanations

The Nature of Computation Christopher Moore, Stephan Mertens, 2011-08-11 Computational complexity is one of the most beautiful fields of modern mathematics and it is increasingly relevant to other sciences ranging from physics to biology But this beauty is often buried underneath layers of unnecessary formalism and exciting recent results like interactive proofs phase transitions and quantum computing are usually considered too advanced for the typical student This book bridges these gaps by explaining the deep ideas of theoretical computer science in a clear and enjoyable fashion making them accessible to non computer scientists and to computer scientists who finally want to appreciate their field from a new point of view The authors start with a lucid and playful explanation of the P vs NP problem explaining why it is so fundamental and so hard to resolve They then lead the reader through the complexity of mazes and games optimization in theory and practice randomized algorithms interactive proofs and pseudorandomness Markov chains and phase transitions and the outer reaches of quantum computing At every turn they use a minimum of formalism providing explanations that are both deep and accessible The book is intended for graduate and undergraduate students scientists from other areas who have long wanted to understand this subject and experts who want to fall in love with this field all over again

Computer Science Education Sue Sentance, Erik Barendsen, Nicol R. Howard, Carsten Schulte, 2023-02-23 Drawing together the most up to date research from experts all across the world the second edition of *Computer Science Education* offers the most up to date coverage available on this developing subject ideal for building confidence of new pre service and in service educators

teaching a new discipline It provides an international overview of key concepts pedagogical approaches and assessment practices Highlights of the second edition include New sections on machine learning and data driven epistemic programming A new focus on equity and inclusion in computer science education Chapters updated throughout including a revised chapter on relating ethical and societal aspects to knowledge rich aspects of computer science education A new set of chapters on the learning of programming including design pedagogy and misconceptions A chapter on the way we use language in the computer science classroom The book is structured to support the reader with chapter outlines synopses and key points Explanations of key concepts real life examples and reflective points keep the theory grounded in classroom practice The book is accompanied by a companion website including online summaries for each chapter 3 minute video summaries by each author and an archived chapter on taxonomies and competencies from the first edition *The Science of Computing* David Harel,1989 The Science of Computing presents in a no nonsense way an exposition on algorithms the topic that is the essence of computer programming Appropriate for programmers computer professionals and the technically minded public *Proceedings, 1993 ACM Computer Science Conference* Stan C. Kwasny,John F. Buck,1993 Algorithmics David Harel,1987 *Software Programming Techniques* **Science Books & Films** ,1980 **An Introduction to the General Theory of Algorithms** Michael Machtey,Paul Young,1978 *Digital Systems Reference Book* Brian Holdsworth,Graham R. Martin,1993 Designed to provide comprehensive coverage of the field of digital systems in a concise but authoritative form For ease of access the book has been divided into five parts fundamentals devices for digital systems system design and techniques system development and applications **Introduction to Computing with Pascal** Norman Biggs,1989 An introduction to computing in general and the Pascal language in particular Biggs math London School of Economics uses a simple model of computing to describe the meaning of a programming language this framework is then used to develop Pascal from simple constructions through to recursion and pointers No bibliography Paper edition unseen 18 95 Annotation copyrighted by Book News Inc Portland OR *General Catalog -- University of California, Santa Cruz* University of California, Santa Cruz,1986 **Proceedings of National Educational Computing Conference (NECC).** ,1980 **Directory of Data Processing Education** ,1972 **Public Libraries** ,1981 Mathematics Foundation Course: Computing (I) Open University. Mathematics Foundation Course Team,1975 **Handbook of Science and Technology Studies** Sheila Jasanoff,1995 Sponsored by the Society for Social Studies of Science this comprehensive resource defines summarizes and synthesizes the advances made in the social scientific humanistic and policy studies of science and technology In 28 chapters contributors from ten countries and a dozen different academic disciplines provide not only traditional syntheses **In Search of Gender Free Paradigms for Computer Science Education** C. Dianne Martin,Eric Murchie-Beyma,1992 This monograph includes nine papers delivered at a National Educational Computing Conference NECC preconference workshop and a previously unpublished paper on gender and attitudes The papers which are presented

in four categories are 1 Report on the Workshop In Search of Gender Free Paradigms for Computer Science Education C Dianne Martin 2 Understanding Gender Biases in Computer Related Behavior Are We Using the Wrong Metaphor Robin Kay 3 Gender Differences in Human Computer Interaction Charles W Huff John H Fleming and Joel Cooper 4 Gender and Attitude Toward Computers James R Aman 5 Female Students Underachievement in Computer Science and Mathematics Reasons and Recommendations Lesley S Klein 6 Implications of the Computer Culture for Women of Color Carol Edwards 7 Strategies for Involving Girls in Computer Science Valerie Clark 8 A New Introduction to Computer Science Danielle R Bernstein 9 Restructuring Departments for Equality Henry Etzkowitz Carol Kemelgor Michael Neuschatz and Brian Uzzi and 10 Gender Equity A Partial List of Resources Cindy Meyer Hanchey An additional paper and report are appended Epistemological Pluralism Styles and Voices within the Computer Culture Sherry Turkle and Seymour Papert and Becoming a Computer Scientist A Report by the ACM Committee on the Status of Women in Computing Science Amy Pearl Martha Pollack Eve Riskin Becky Thomas Elizabeth Wolf and Alice Wu The gender equity resources listed include books articles and brochures training modules technical assistance modules publications from the National Science Foundation and organizations ALF

Computing: an Introduction to Procedures and Procedure-followers Fred M. Tonge, Julian Feldman, 1975 This book is an introduction to computing to the use of computers as an aid to problem solving It is not intended as a formal introduction to computer science the scientific study of phenomena associated with the computer as information processor

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