The Moore School Lectures
Theory and Techniques for Design of
Electronic Digital Computers

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The Moore School Lectures Charles Babbage Institute Reprint Series For The History Of Computing

B. Jack Copeland

The Moore School Lectures Charles Babbage Institute Reprint Series For The History Of Computing:

Dependable and Historic Computing Cliff B. Jones,John L. Lloyd,2012-01-24 This Festschrift volume published in honor of Brian Randell on the occasion of his 75th birthday contains a total of 37 refereed contributions Two biographical papers are followed by the six invited papers that were presented at the conference Dependable and Historic Computing The Randell Tales held during April 7 8 2011 at Newcastle University UK The remaining contributions are authored by former scientific colleagues of Brian Randell The papers focus on the core of Brian Randell s work the development of computing science and the study of its history Moreover his wider interests are reflected and so the collection comprises papers on software engineering storage fragmentation computer architecture programming languages and dependability There is even a paper that echoes Randell s love of maps After an early career with English Electric and then with IBM in New York and California Brian Randell joined Newcastle University His main research has been on dependable computing in all its forms especially reliability safety and security aspects and he has led several major European collaborative projects   *The Works of Charles Babbage Vol 1* Charles Babbage,Martin Campbell-Kelly,2024-10-28 A set of 11 volumes which contains all the known works of Charles Babbage who has been described as the pioneer of the computer His mathematical scientific and engineering work is highly significant for its original approach to problem solving and is reset for today s reader   **Alan Turing's Automatic Computing Engine : The Master Codebreaker's Struggle to build the Modern Computer** B. Jack Copeland,2005-04-14 The mathematical genius Alan Turing 1912 1954 was one of the greatest scientists and thinkers of the 20th century Now well known for his crucial wartime role in breaking the ENIGMA code he was the first to conceive of the fundamental principle of the modern computer the idea of controlling a computing machine s operations by means of a program of coded instructions stored in the machine s memory In 1945 Turing drew up his revolutionary design for an electronic computing machine his Automatic Computing Engine ACE A pilot model of the ACE ran its first program in 1950 and the production version the DEUCE went on to become a cornerstone of the fledgling British computer industry The first personal computer was based on Turing s ACE Alan Turing s Automatic Computing Engine describes Turing s struggle to build the modern computer The first detailed history of Turing s contributions to computer science this text is essential reading for anyone interested in the history of the computer and the history of mathematics It contains first hand accounts by Turing and by the pioneers of computing who worked with him As well as relating the story of the invention of the computer the book clearly describes the hardware and software of the ACE including the very first computer programs The book is intended to be accessible to everyone with an interest in computing and contains numerous diagrams and illustrations as well as original photographs The book contains chapters describing Turing s path breaking research in the fields of Artificial Intelligence AI and Artificial Life A Life The book has an extensive system of hyperlinks to The Turing Archive for the History of Computing an on line library of digital facsimiles of typewritten documents by Turing and the other scientists who

pioneered the electronic computer **Alan Turing's Electronic Brain** B. Jack Copeland,2012-05-24 Well known for this crucial wartime role in breaking the ENIGMA code this book chronicles Turing s struggle to build the modern computer Includes first hand accounts by Turing and the pioneers of computing who worked with him **Who Invented the Computer?** Alice R. Burks,2010-10-29 In 1973 Federal District Judge Earl R Larson issued a ruling in a patent case that was to have profound and long lasting implications for the dawning computer revolution Against all expectations the judge ruled against Sperry Rand Corp which claimed to hold the patent on the first computer dubbed the ENIAC and was demanding huge royalties on all electronic data processing sales by Honeywell Inc and other large competitors The judge came to the conclusion that in fact the ENIAC was not the first computer but was a derivative of an obscure computer called the ABC which had been developed in the late thirties by a largely unknown professor of physics and mathematics at Iowa State University named John V Atanasoff Looking back today from our digital world at what was then a little publicized trial it is clear that the judge s decision had enormous repercussions If Judge Larson had ruled the other way in favor of the patent claim subsequent manufacturers of computing hardware would have had to obtain a license from Sperry Rand and the course of computing history would likely have been very different from the galloping revolution we have all witnessed in the past three decades This book centers on this crucial trial arguing that Judge Larson correctly evaluated the facts and made the right decision even though many in the computing community have never accepted Atanasoff as the legitimate inventor of the electronic computer With meticulous research Alice Rowe Burks examines both the trial and its aftermath presenting telling evidence in convincing and absorbing fashion and leaving no doubt about the actual originator of what has been called the greatest invention of the 20th century **The Moore School Lectures** Moore School of Electrical Engineering,1985 Volume 9 in the Babbage Reprint Series makes the Moore School Lectures 1946 available for the first time Volume 9 in the Babbage Reprint Series makes the Moore School Lectures 1946 available for the first time Delivered by such notable engineers and scientists as J P Eckert J Mauchly H Goldstine A W Burks and J von Neumann at the University of Pennsylvania as a direct response to crucial new developments in the design and construction of the early stored program computer the ENIAC the lectures provide a comprehensive overview of the history of computing devices and digital and analog computing mechanisms machine elements including arithmetic circuits and the Selectron numerical mathematical methods and a detailed presentation of the ENIAC the parallel type EDVAC and the serial acoustic binary EDVAC **A Science of Operations** Mark Priestley,2011-02-14 Today computers fulfil a dazzling array of roles a flexibility resulting from the great range of programs that can be run on them A Science of Operations examines the history of what we now call programming defined not simply as computer programming but more broadly as the definition of the steps involved in computations and other information processing activities This unique perspective highlights how the history of programming is distinct from the history of the computer despite the close relationship between the two in the 20th century The book also discusses how

the development of programming languages is related to disparate fields which attempted to give a mechanical account of language on the one hand and a linguistic account of machines on the other Topics and features Covers the early development of automatic computing including Babbage s mechanical calculating engines and the applications of punched card technology examines the theoretical work of mathematical logicians such as Kleene Church Post and Turing and the machines built by Zuse and Aiken in the 1930s and 1940s discusses the role that logic played in the development of the stored program computer describes the standard model of machine code programming popularised by Maurice Wilkes presents the complete table for the universal Turing machine in the Appendices investigates the rise of the initiatives aimed at developing higher level programming nota tions and how these came to be thought of as languages that could be studied independently of a machine examines the importance of the Algol 60 language and the framework it provided for studying the design of programming languages and the process of software development and explores the early development of object oriented languages with a focus on the Smalltalk project This fascinating text offers a new viewpoint for historians of science and technology as well as for the general reader The historical narrative builds the story in a clear and logical fashion roughly following chronological order **Writing Computer and Information History** William Aspray,2024-05-14 This is not a book about the history of computing or the history of information Instead it is a meta historical book about the research and writing of these types of history The formal presentation of historical research in the form of a publication often hides the process by which the topic was selected boundaries were drawn evidence was selected analytic approach was chosen and applied results were presented how this work fits into a larger body of scholarship the implicit goals and biases of the author and many other similar issues This process of learning about the various ways to carry out computer history or information history can be enriched by this collection of reflective essays by experienced scholars discussing the craft that they practice This is a book that concerns both computer history and information history The first scholarship in computer history by professionally trained scholars began to appear in the 1970s so we are approaching a half century of research and publication in this area The field has generated numerous pieces of exemplary scholarship from various perspectives such as intellectual history of individual technologies business histories of firms economic histories of market sectors externalist histories of funding and professionalization and so on However the field continues to evolve especially as computing and communication technologies have drawn together in the form of the Internet and social media and with them a new set of scholars is participating drawn not only from the history of science and technology but also from the communication and media studies fields Powerful theories approaches and frameworks are being increasingly drawn more widely from both the humanities and the social sciences to inform the practice of computer history The scholars in this volume look at what s happened what s happening now and where historical scholarship in these disciplines is headed Biographies of Scientists for Sci-Tech Libraries Tony Stankus,2019-12-05 This book first published in 1991 is an invaluable guide to biographies of

scientists from a wide variety of scientific fields The books selected for this highly descriptive bibliography help librarians shatter readers stereotypes of scientists as monomaniacal and uninteresting people by providing interesting and provocative titles to capture the interest of students and other readers The biographies included in this very special bibliography were carefully selected for their humour and human insights to give future scientists encouragement inspiration and an understanding of the origins of particular scientific fields These biographies are unique in that they explore the whole personality of the scientist giving students a glimpse at the variety and drama of the lives beyond well known contributions or Nobel prize accomplishments **Proving Ground** Kathy Kleiman,2022-08-11 As the Cold War began America s race for tech supremacy was taking off Experts rushed to complete the top secret computing research started during World War II among them six gifted mathematicians a patriotic Quaker a Jewish bookworm a Yugoslav genius a native Gaelic speaker a sophomore from the Bronx and a farmer s daughter from Missouri Their mission Programming the world s first and only supercomputer before any code or programming languages existed These pioneers triumphed against sexist attitudes and huge technical challenges to invent computer programming yet their monumental contribution has never been recognised until now Over a decade Kathy Kleiman met with four of the original six ENIAC Programmers and recorded their stories Here with a light touch and a serious mind she exposes the deliberate erasure of their achievements and restores the women to their rightful place as revolutionaries bringing to life their camaraderie their determination and their rapidly changing world As big tech struggles with gender inequality and momentum builds in restoring women to history the time has come for this engrossing story to be uncovered and celebrated **The Charles Babbage Institute Newsletter** ,1992 *Computer Architecture and Implementation* Harvey G. Cragon,2000-02-13 This textbook provides a clear and concise introduction to computer architecture and implementation Two important themes are interwoven throughout the book The first is an overview of the major concepts and design philosophies of computer architecture and organization The second is the early introduction and use of analytic modeling of computer performance A unique feature of the book is that memory systems are discussed before processor implementations The book contains many worked examples and over 130 homework exercises It is an ideal textbook for a one semester undergraduate course in computer architecture and implementation **Technology and Mathematics** Sven Ove Hansson,2018-10-24 This volume is the first extensive study of the historical and philosophical connections between technology and mathematics Coverage includes the use of mathematics in ancient as well as modern technology devices and machines for computation cryptology mathematics in technological education the epistemology of computer mediated proofs and the relationship between technological and mathematical computability The book also examines the work of such historical figures as Gottfried Wilhelm Leibniz Charles Babbage Ada Lovelace and Alan Turing *Lectures in Parallel Computation* Alan Gibbons,Paul Spirakis,1993-03-18 The foundations of parallel computation especially the efficiency of computation are the concern of this book Distinguished international researchers have

contributed fifteen chapters which together form a coherent stream taking the reader who has little prior knowledge of the field to a position of being familiar with leading edge issues The book may also function as a source of teaching material and reference for researchers The first part is devoted to the Parallel Random Access Machine P RAM model of parallel computation The initial chapters justify and define the model which is then used for the development of algorithm design in a variety of application areas such as deterministic algorithms randomisation and algorithm resilience The second part deals with distributed memory models of computation The question of efficiently implementing P RAM algorithms within these models is addressed as are the immensely interesting prospects for general purpose parallel computation   Routines of Substitution Mark Priestley,2018-08-14 This work is a historical and philosophical study of the programming work carried out by John von Neumann in the period 1945 8 At the heart of the book is an examination of a manuscript featuring the earliest known surviving example of von Neumann s coding a routine written in 1945 to mesh two sequences of data and intended to be part of a larger program implementing the algorithm now known as mergesort The text of the manuscript itself along with a preliminary document describing the code he used to write this program are reproduced as appendices The program is approached in three chapters describing the historical background to von Neumann s work the significance of the sorting application itself and the development of the EDVAC the machine for which the program was written The subsequent chapters widen the focus again discussing the subsequent evolution of the program and the crucial topic of subroutines before concluding by situating von Neumann s work in a number of wider contexts The book also offers a unifying philosophical interpretation of von Neumann s approach to coding   *Brainmedia* Flora Lysen,2022-07-28 Will we ever be able to see the brain at work Could it be possible to observe thinking and feeling as if watching a live broadcast from within the human head Brainmedia uncovers past and present examples of scientists and science educators who conceptualize and demonstrate the active human brain guided by new media technologies from exhibitions of giant illuminated brain models and staged projections of brainwave recordings to live televised brain broadcasts brains hooked up to computers and experiments with brain to brain synchronization Drawing on archival material Brainmedia outlines a new history of live brains arguing that practices of and ideas about mediation impacted the imagination of seeing the brain at work By combining accounts of scientists examining brains in laboratories with examples of public demonstrations and exhibitions of brain research Brainmedia casts new light on popularization practices placing them at the heart of scientific work   **Computers and Commerce** Arthur Lawrence Norberg,2005 Both ERA and EMCC had their roots in World War II and in postwar years both firms received major funding from the United States government Norberg analyzes the interaction between the two companies and the government and examines the impact of this institutional context on technological innovation He looks at the two firms operations after 1951 as independent subsidiaries of Remington Rand and documents the management problems that began after Remington Rand merged with Sperry Gyroscope to form Sperry Rand in 1955

Jacket   **Howard Aiken** I. Bernard Cohen,2000 Biography of Howard Aiken a major figure of the early digital era by a major historian of science who was also a colleague of Aiken s at Harvard Howard Hathaway Aiken 1900 1973 was a major figure of the early digital era He is best known for his first machine the IBM Automatic Sequence Controlled Calculator or Harvard Mark I conceived in 1937 and put into operation in 1944 But he also made significant contributions to the development of applications for the new machines and to the creation of a university curriculum for computer science This biography of Aiken by a major historian of science who was also a colleague of Aiken s at Harvard offers a clear and often entertaining introduction to Aiken and his times Aiken s Mark I was the most intensely used of the early large scale general purpose automatic digital computers and it had a significant impact on the machines that followed Aiken also proselytized for the computer among scientists scholars and businesspeople and explored novel applications in data processing automatic billing and production control But his most lasting contribution may have been the students who received degrees under him and then took prominent positions in academia and industry I Bernard Cohen argues convincingly for Aiken s significance as a shaper of the computer world in which we now live   *Calculating the Weather* Frederik Nebeker,1995-05-18 During the course of this century meteorology has become unified physics based and highly computational Calculating the Weather Meteorology in the 20th Century explains this transformation by examining thevarious roles of computation throughout the history of meteorology giving most attention to the period from World War I to the 1960s The electronic digital computer a product of World War II led to great advances in empirical theoretical and practical meteorology At the same time the use of the computer led to the discovery of so calledchaotic systems and to the recognition that there may well be fundamental limits to predicting the weather One of the very few books covering 20th century meteorology this text is an excellent supplement to any course in general meteorology forecasting or history of science Key Features Provides a narrative account of the growth of meteorology in the 20th century Explains how forecasting the weather became a physics based science Studies the impact of the computer on meteorology and thus provides an example of science transformed by the computer Describes three traditions in meteorology The empirical tradition of gathering data and making inferences A theoretical tradition of explaining atmospheric motions by means of the laws of physics The practical tradition of predicting the weather Analyzes the increasing role of calculation within each of the traditions and explains how electronic digital computers made possible many connections between traditions   **The Works of Charles Babbage (11 Volume Set)** Charles Babbage,1989-05 Charles Babbage is well described as the pioneer of the computer but he was far more than this his mathematic scientific and engineering work is highly significant for its original approach to problem solving while the economic political and theological writings show an incisive appreciation of contemporary debate and justify the growing consensus which judges Babbage to be one of the most important and rigorous intellectual polymaths of his age This edition contains his two major papers Inessay on the calculus of functions which established his reputation as a mathematician and

On the economy of machinery manufacturers which was the first work of its kind to concentrate on the manufacturing industry a turning point in economic writing The New York University Press edition includes a comprehensive general introduction in Volume I Textual notes by leading international experts in the field of Babbage scholarship such as Professor I Bernard Cohen Emeritus Professor of the History of Science University of Sydney and Dr J A M Dubey Dean of Engineering at the Polytechnic of the South bank consider the world spectrum of the writings and put the works in context All new texts are brought together by a comprehensive index providing easy reference to the complete works a facility which will allow the integration of Babbage scholarship for the first time In addition to the standard pagination the original page numbers have been retained to allow access from contemporary sources there is also a comprehensive bibliography if works cited in the text an essential reference tool for any serious scholar The Works are illustrated throughout with the original diagrams graphs and line drawings Volume 3 also contains 15 plates from Babbage s Calculating Engines 1889

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