



The Computer

Eric G. Swedin, David L. Ferro



The Computer:

The Computer Gayle Worland, 2003-07 Provides an introduction to the history and development of the computer and explains how a computer works Includes information on some of the scientists and inventors who were influential of the invention of the computer **The Computer: A Very Short Introduction** Darrel Ince, 2011-11-24 There is a companion web site associated with the book <http://vsicomputer.wordpress.com> It contains chapter summaries links to relevant material and posts about items of news relevant to the book's contents Computers have changed so much since the room filling bulky magnetic tape running monsters of the mid 20th century They now form a vital part of most people's lives And they are more ubiquitous than might be thought you may have more than 30 computers in your home not just the desktop and laptop but think of the television the fridge the microwave But what is the basic nature of the modern computer How does it work How has it been possible to squeeze so much power into increasingly small machines And what will the next generations of computers look like In this Very Short Introduction Darrel Ince looks at the basic concepts behind all computers the changes in hardware and software that allowed computers to become so small and commonplace the challenges produced by the computer revolution especially whole new modes of cybercrime and security issues the Internet and the advent of cloud computing and the promise of whole new horizons opening up with quantum computing and even computing using DNA ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

The Computer Mark Frauenfelder, 2005 The Computer traces the evolution of this vital machine from its earliest roots through its exciting application in code breaking during the Second World War and from its initial use in the workplace and home to its current status as a totally indispensable part of twenty first century life Along the way the author examines some colourful moments in the computer's development from the key battle between Apple and IBM in the 1980s to the use of computers in film and television such as the 1950s film *The Forbidden Planet* The speed at which computer technology is progressing is staggering and the final chapter looks forward to a time when computers will be on our wrists in our cars and possibly in our bodies **The Computer** Eric G. Swedin, David L. Ferro, 2022-07-08 This book aimed at general readers covers the entirety of computing history from antiquity to the present placing the story of computing into the broader context of politics economics society and more Computers dominate the world we live in and this book describes how we got here *The Computer A Brief History of the Machine That Changed the World* covers topics from early efforts at mathematical computation back in ancient times such as the abacus and the Antikythera device through Babbage's Difference Engine and the Hollerith Tabulating Machines of the 19th century to the eventual invention of the modern computer during World War II and its aftermath The scope of the text reaches into the modern day with chapters on social media and the influence of

computers and technology on recent elections The information in this book perfect for readers new to the topic or those looking to delve into the history of computers in greater detail can be accessed both chronologically and topically With chapters focusing on larger time periods as well as shorter subsections covering specific people and topics this book is designed to make the history of computing as approachable as possible *The Computer Revolution in Canada* John N. Vardalas, 2001-07-27 The forces that shaped Canada's digital innovations in the postwar period After World War II other major industrialized nations responded to the technological and industrial hegemony of the United States by developing their own design and manufacturing competence in digital electronic technology In this book John Vardalas describes the quest for such competence in Canada exploring the significant contributions of the civilian sector but emphasizing the role of the Canadian military in shaping radical technological change As he shows Canada's determination to be an active participant in research and development work on advanced weapons systems and in the testing of those weapons systems was a cornerstone of Canadian technological development during the years 1945-1980 Vardalas presents case studies of such firms as Ferranti Canada Sperry Gyroscope of Canada and Control Data of Canada In contrast to the standard nationalist interpretation of Canadian subsidiaries of transnational corporations as passive agents he shows them to have been remarkably innovative and explains how their aggressive programs to develop all Canadian digital R D and manufacturing capacities influenced technological development in the United States and in Great Britain While underlining the unprecedented role of the military in the creation of peacetime scientific and technical skills Vardalas also examines the role of government and university research programs including Canada's first computerized systems for mail sorting and airline reservations Overall he presents a nuanced account of how national economic political and corporate forces influenced the content extent and direction of digital innovation in Canada *The Computer - My Life* Konrad Zuse, 1993-09-28 Konrad Zuse is one of the great pioneers of the computer age He created the first fully automated program controlled freely programmable computer using binary floating point calculation It was operational in 1941 He built his first machines in Berlin during the Second World War with bombs falling all around and after the war he built up a company that was taken over by Siemens in 1967 Zuse was an inventor in the traditional style full of phantastic ideas but also gifted with a powerful analytical mind Single handedly he developed one of the first programming languages the Plan Calculus including features copied only decades later in other languages He wrote numerous books and articles and won many honors and awards This is his autobiography written in an engagingly lively and pleasant style full of anecdotes reminiscences and philosophical asides It traces his life from his childhood in East Prussia through tense wartime experiences and hard times building up his business after the war to a ripe old age and well earned celebrity *The Computer as a Socializing Agent* Robert D. Hess, 1977 **Digital Dreams: Exploring the Computer as an Art Medium** Harry Borgman, 2004-10-14 Harry Borgman's professional career has spanned many fields including graphic design cartooning and illustration He was art director on the

Chevrolet account at Campbell Ewald advertising agency and the Chariman of the Advertising Department at the Society of Arts and Crafts now the College for Creative Studies He has written several art technique books for Watson Guptill Publications Dover Publications recently reprinting his book Pen and Pencil Drawing Techniques For many years he worked as a freelance artist in Detroit New York and Paris France As a painter he works in the watercolor and acrylic mediums and is also very active as a sculptor doing wood carvings as well as wood and metal constructions Recently he has been experimenting with the computer medium currently creating photomontages and collages on the computer for a proposed exhibition

The The Computer Vision Workshop Hafsa Asad,Vishwesh Ravi Shrimali,Nikhil Singh,2020-07-27 Explore the potential of deep learning techniques in computer vision applications using the Python ecosystem and build real time systems for detecting human behavior Key FeaturesUnderstand OpenCV and select the right algorithm to solve real world problemsDiscover techniques for image and video processingLearn how to apply face recognition in videos to automatically extract key informationBook Description Computer Vision CV has become an important aspect of AI technology From driverless cars to medical diagnostics and monitoring the health of crops to fraud detection in banking computer vision is used across all domains to automate tasks The Computer Vision Workshop will help you understand how computers master the art of processing digital images and videos to mimic human activities Starting with an introduction to the OpenCV library you ll learn how to write your first script using basic image processing operations You ll then get to grips with essential image and video processing techniques such as histograms contours and face processing As you progress you ll become familiar with advanced computer vision and deep learning concepts such as object detection tracking and recognition and finally shift your focus from 2D to 3D visualization This CV course will enable you to experiment with camera calibration and explore both passive and active canonical 3D reconstruction methods By the end of this book you ll have developed the practical skills necessary for building powerful applications to solve computer vision problems What you will learnAccess and manipulate pixels in OpenCV using BGR and grayscale imagesCreate histograms to better understand image contentUse contours for shape analysis object detection and recognitionTrack objects in videos using a variety of trackers available in OpenCVDiscover how to apply face recognition tasks using computer vision techniquesVisualize 3D objects in point clouds and polygon meshes using Open3DWho this book is for If you are a researcher developer or data scientist looking to automate everyday tasks using computer vision this workshop is for you A basic understanding of Python and deep learning will help you to get the most out of this workshop

Aspects of the Computer-based Patient Record Marion J. Ball,1992 In a recent study the Institute of Medicine IOM concluded that the computer based patient record is an essential technology for health care and recommended its prompt development and implementation This volume contains the position papers that formed the basis for the IOM s recommendations incl

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