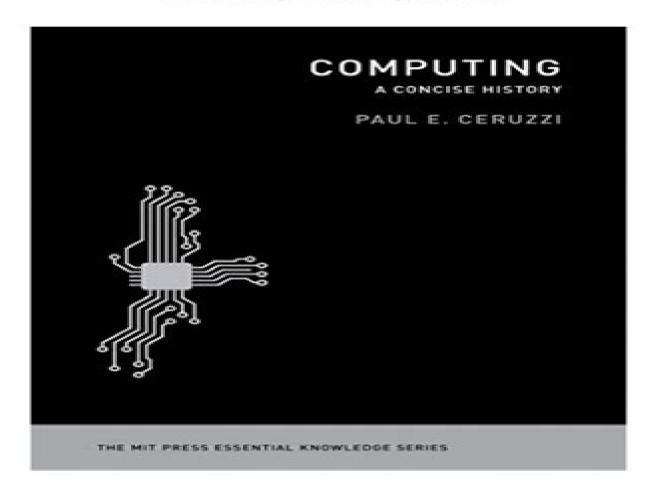
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# **Computing A Concise History The Mit Press Essential Knowledge Series**

John D. Kelleher, Brendan Tierney

### **Computing A Concise History The Mit Press Essential Knowledge Series:**

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developed from the very beginning which only requires basic knowledge in physics and mathematics Alan Turing Rebecca Kraft Rector, 2015-12-15 Not only was Turing one of the founders of computer science he also helped the British military break Nazi codes allowing them to decipher messages that helped the Allies win World War II Turing was a pioneer in the field of artificial intelligence he developed the Turing test which determines whether a machine is capable of intelligence like that of a human being Despite his impressive list of accomplishments Turing was persecuted for his homosexuality Sidebars offer extra information about topics such as Bletchley Park ciphers and the times Turing lived in while a timeline serves as a quick reference for the chronology of key events in Turing's life Data Science John D. Kelleher, Brendan Tierney, 2018-04-13 A concise introduction to the emerging field of data science explaining its evolution relation to machine learning current uses data infrastructure issues and ethical challenges The goal of data science is to improve decision making through the analysis of data Today data science determines the ads we see online the books and movies that are recommended to us online which emails are filtered into our spam folders and even how much we pay for health insurance This volume in the MIT Press Essential Knowledge series offers a concise introduction to the emerging field of data science explaining its evolution current uses data infrastructure issues and ethical challenges It has never been easier for organizations to gather store and process data Use of data science is driven by the rise of big data and social media the development of high performance computing and the emergence of such powerful methods for data analysis and modeling as deep learning Data science encompasses a set of principles problem definitions algorithms and processes for extracting non obvious and useful patterns from large datasets It is closely related to the fields of data mining and machine learning but broader in scope This book offers a brief history of the field introduces fundamental data concepts and describes the stages in a data science project It considers data infrastructure and the challenges posed by integrating data from multiple sources introduces the basics of machine learning and discusses how to link machine learning expertise with real world problems The book also reviews ethical and legal issues developments in data regulation and computational approaches to preserving privacy Finally it considers the future impact of data science and offers principles for success in data science projects

**Self-Tracking** Gina Neff,Dawn Nafus,2016-06-24 What happens when people turn their everyday experience into data an introduction to the essential ideas and key challenges of self tracking People keep track In the eighteenth century Benjamin Franklin kept charts of time spent and virtues lived up to Today people use technology to self track hours slept steps taken calories consumed medications administered Ninety million wearable sensors were shipped in 2014 to help us gather data about our lives This book examines how people record analyze and reflect on this data looking at the tools they use and the communities they become part of Gina Neff and Dawn Nafus describe what happens when people turn their everyday experience in particular health and wellness related experience into data and offer an introduction to the essential ideas and key challenges of using these technologies They consider self tracking as a social and cultural phenomenon

describing not only the use of data as a kind of mirror of the self but also how this enables people to connect to and learn from others Neff and Nafus consider what s at stake who wants our data and why the practices of serious self tracking enthusiasts the design of commercial self tracking technology and how self tracking can fill gaps in the healthcare system Today no one can lead an entirely untracked life Neff and Nafus show us how to use data in a way that empowers and The Book Amaranth Borsuk, 2018-05-04 The book as object as content as idea as interface What is the book in a digital age Is it a physical object containing pages encased in covers Is it a portable device that gives us access to entire libraries The codex the book as bound paper sheets emerged around 150 CE It was preceded by clay tablets and papyrus scrolls Are those books In this volume in the MIT Press Essential Knowledge series Amaranth Borsuk considers the history of the book the future of the book and the idea of the book Tracing the interrelationship of form and content in the book s development she bridges book history book arts and electronic literature to expand our definition of an object we thought we knew intimately Contrary to the many reports of its death which has been blamed at various times on newspapers television and e readers the book is alive Despite nostalgic paeans to the codex and its printed pages Borsuk reminds us the term book commonly refers to both medium and content And the medium has proved to be malleable Rather than pinning our notion of the book to a single form Borsuk argues we should remember its long history of transformation Considering the book as object content idea and interface she shows that the physical form of the book has always been the site of experimentation and play Rather than creating a false dichotomy between print and digital media we should appreciate their continuities

Auctions Timothy P. Hubbard, Harry J. Paarsch, 2016-01-06 How auctions work in theory and practice with clear explanations and real world examples that range from government procurement to eBay Although it is among the oldest of market institutions the auction is ubiquitous in today s economy used for everything from government procurement to selling advertising on the Internet to course assignment at MIT s Sloan School And yet beyond the small number of economists who specialize in the subject few people understand how auctions really work This concise accessible and engaging book explains both the theory and the practice of auctions It describes the main auction formats and pricing rules develops a simple model to explain bidder behavior and provides a range of real world examples The authors explain what constitutes an auction and how auctions can be modeled as games of asymmetric information that is games in which some players know something that other players do not They characterize behavior in these strategic situations and maintain a focus on the real world by illustrating their discussions with examples that include not just auctions held by eBay and Sotheby s but those used by Google the U S Treasury TaskRabbit and charities Readers will begin to understand how economists model auctions and how the rules of the auction shape bidder incentives They will appreciate the role auctions play in our modern economy and understand why these selling mechanisms are so resilient 
Free Will Mark Balaguer, 2014-02-14 A philosopher considers whether the scientific and philosophical arguments against free will are reason enough to give up our belief in it In our daily

life it really seems as though we have free will that what we do from moment to moment is determined by conscious decisions that we freely make You get up from the couch you go for a walk you eat chocolate ice cream It seems that we re in control of actions like these if we are then we have free will But in recent years some have argued that free will is an illusion The neuroscientist and best selling author Sam Harris and the late Harvard psychologist Daniel Wegner for example claim that certain scientific findings disprove free will In this engaging and accessible volume in the Essential Knowledge series the philosopher Mark Balaguer examines the various arguments and experiments that have been cited to support the claim that human beings don't have free will He finds them to be overstated and misguided Balaquer discusses determinism the view that every physical event is predetermined or completely caused by prior events He describes several philosophical and scientific arguments against free will including one based on Benjamin Libet's famous neuroscientific experiments which allegedly show that our conscious decisions are caused by neural events that occur before we choose He considers various religious and philosophical views including the philosophical pro free will view known as compatibilism Balaguer concludes that the anti free will arguments put forward by philosophers psychologists and neuroscientists simply don t work They don t provide any good reason to doubt the existence of free will But he cautions this doesn't necessarily mean that we have free will The question of whether we have free will remains an open one we simply don t know enough about the brain to answer Paradox Margaret Cuonzo, 2014-02-14 An introduction to paradoxes showing that they are more than mere it definitively puzzles but can prompt new ways of thinking Thinkers have been fascinated by paradox since long before Aristotle grappled with Zeno's In this volume in The MIT Press Essential Knowledge series Margaret Cuonzo explores paradoxes and the strategies used to solve them She finds that paradoxes are more than mere puzzles but can prompt new ways of thinking A paradox can be defined as a set of mutually inconsistent claims each of which seems true Paradoxes emerge not just in salons and ivory towers but in everyday life An Internet search for paradox brings forth a picture of an ashtray with a no smoking symbol inscribed on it Proposing solutions Cuonzo writes is a natural response to paradoxes She invites us to rethink paradoxes by focusing on strategies for solving them arguing that there is much to be learned from this regardless of whether any of the more powerful paradoxes is even capable of solution Cuonzo offers a catalog of paradox solving strategies including the Preemptive Strike questioning the paradox itself the Odd Guy Out calling one of the assumptions into question and the You Can t Get There from Here denying the validity of the reasoning She argues that certain types of solutions work better in some contexts than others and that as paradoxicality increases the success of certain strategies grows more unlikely Cuonzo shows that the processes of paradox generation and solution proposal are interesting and important ones Discovering a paradox leads to advances in knowledge new science often stems from attempts to solve paradoxes and the concepts used in the new sciences lead to new paradoxes As Niels Bohr wrote How wonderful that we have met with a paradox Now we have some hope of making progress Springer Handbook of Systematic Musicology Rolf Bader, 2018-03-21 This

unique reference book offers a holistic description of the multifaceted field of systematic musicology which is the study of music its production and perception and its cultural historical and philosophical background The seven sections reflect the main topics in this interdisciplinary subject The first two parts discuss musical acoustics and signal processing comprehensively describing the mathematical and physical fundamentals of musical sound generation and propagation The complex interplay of physiology and psychology involved in sound and music perception is covered in the following sections with a particular focus on psychoacoustics and the recently evolved research on embodied music cognition In addition a huge variety of technical applications for professional training music composition and consumer electronics are presented A section on music ethnology completes this comprehensive handbook Music theory and philosophy of music are imbedded throughout Carefully edited and written by internationally respected experts it is an invaluable reference resource for professionals and graduate students alike Crowdsourcing Daren C. Brabham, 2013-05-10 A concise introduction to crowdsourcing that goes beyond social media buzzwords to explain what crowdsourcing really is and how it works Ever since the term crowdsourcing was coined in 2006 by Wired writer Jeff Howe group activities ranging from the creation of the Oxford English Dictionary to the choosing of new colors for M it is not a market research survey that offers participants a short list of choices and it is qualitatively different from predigital open innovation and collaborative production processes which lacked the speed reach rich capability and lowered barriers to entry enabled by the Internet Brabham describes the intellectual roots of the idea of crowdsourcing in such concepts as collective intelligence the wisdom of crowds and distributed computing He surveys the major issues in crowdsourcing including crowd motivation the misconception of the amateur participant crowdfunding and the danger of crowdsploitation of volunteer labor citing real world examples from Threadless InnoCentive and other organizations And he considers the future of crowdsourcing in both theory and practice describing its possible roles in journalism governance national security and science and health Spatial Computing Shashi Shekhar, Pamela Vold, 2020-02-18 An accessible guide to the ideas and technologies underlying such applications as GPS Google Maps Pok mon Go ride sharing driverless cars and drone surveillance Billions of people around the globe use various applications of spatial computing daily by using a ride sharing app GPS the e911 system social media check ins even Pok mon Go Scientists and researchers use spatial computing to track diseases map the bottom of the oceans chart the behavior of endangered species and create election maps in real time Drones and driverless cars use a variety of spatial computing technologies Spatial computing works by understanding the physical world knowing and communicating our relation to places in that world and navigating through those places It has changed our lives and infrastructures profoundly marking a significant shift in how we make our way in the world This volume in the MIT Essential Knowledge series explains the technologies and ideas behind spatial computing The book offers accessible descriptions of GPS and location based services including the use of Wi Fi Bluetooth and RFID for position determination out of satellite range remote sensing which uses

satellite and aerial platforms to monitor such varied phenomena as global food production the effects of climate change and subsurface natural resources on other planets geographic information systems GIS which store analyze and visualize spatial data spatial databases which store multiple forms of spatial data and spatial statistics and spatial data science used to analyze location related data The Routledge Handbook of Sexuality in East Central Europe Agnieszka Kościańska, Anita Kurimay, Kateřina Lišková, Hadley Z. Renkin, 2025-04-10 This handbook provides an overview of scholarly research on sexuality in East Central Europe for both students and academics focusing on the Czech Republic Hungary Poland and Slovakia from the late nineteenth century to the present The collection is organized into eight sections covering major areas of research including non normative sexualities family marriage and kinship race ethnicity and nationalism birth health and reproduction religion sex work and mobility violence and sex education The chapters highlight the breadth and depth of current scholarship on the region past and present The contributions present cutting edge research treating each of the East Central European countries on its own terms and contextualizing sexual meanings practices and dynamics in relation to the specific ways they have been shaped experienced represented and contested in the lives of people across these territories In doing so the book underscores the differences in the region s trajectories of sexuality and sexual politics from those of not only the West but also Russia USSR and former Yugoslavia across the long twentieth century Written by a multidisciplinary team of international experts The Routledge Handbook of Sexuality in East Central Europe is an ideal resource for scholars of European history gender studies anthropology and sociology **The True Creator of Everything Miguel** Nicolelis, 2020-01-07 A radically new cosmological view from a groundbreaking neuroscientist who places the human brain at the center of humanity s universe Renowned neuroscientist Miguel Nicolelis introduces a revolutionary new theory of how the human brain evolved to become an organic computer without rival in the known universe He undertakes the first attempt to explain the entirety of human history culture and civilization based on a series of recently uncovered key principles of brain function This new cosmology is centered around three fundamental properties of the human brain its insurmountable malleability to adapt and learn its exquisite ability to allow multiple individuals to synchronize their minds around a task goal or belief and its incomparable capacity for abstraction Combining insights from such diverse fields as neuroscience mathematics evolution computer science physics history art and philosophy Nicolelis presents a neurobiologically based manifesto for the uniqueness of the human mind and a cautionary tale of the threats that technology poses to present and future generations Innovation & Imitation for Nations Mohammed Ahmad S. Al-Shamsi, 2022-03-03 A journey for readers through thousands of years extending from the innovation of silk porcelain in China and paper kohl in Pharaonic Egypt to the modern innovations in Europe and USA This book introduces a summary of experiences for innovative nations through history Imitation copycatting and knocking off are the code that nations use as a response to the shock of technological gap before embarking on innovation *iMind* Mohamed I. Elmasry, 2024-08-29 Why has so much of our recent

attention been focused on AI while RI is all but forgotten And why are we spending so much energy debating the future of AI rather than that of its human original Why can t those who are concerned about AI and those who care about RI talk to one another using a common language iMind Artificial and Real Intelligence is the first comprehensive popular science account of AI and RI Unique in scope it discusses the interdisciplinary science of AI RI smartphones smart sensors microchips and the brain mind connection It explores what is beyond the physical including mindfulness and spirituality and how they can impact our wellbeing in the here and now and how they can help us achieve a healthy and fulfilling old age Mohamed I Elmasry PhD FIEEE FRSC FCAE FEIC is Emeritus Professor of Computer Engineering at the University of Waterloo 3D Printing John M. Jordan, 2019-03-12 An accessible introduction to 3D printing that outlines the additive manufacturing process industrial and household markets and emerging uses The use of 3D printing digitally controlled additive manufacturing is growing rapidly Consumer models of 3D printers allow people to fabricate small plastic objects from cabinet knobs to wedding cake toppers Industrial uses are becoming widespread as businesses use the technology to fabricate prototypes spare parts custom fitted prosthetics and other plastic or metal items often at lower cost and with greater efficiency than standard manufacturing In this volume in the MIT Press Essential Knowledge series John Jordan offers an accessible introduction to 3D printing describing the printing process industrial and household markets and emerging uses Jordan outlines the stages of 3D printing from idea to software model to a printable file that slices the planned object into printable layers to the finished object itself He describes additive technologies consumer 3D printing in homes and schools mass customization which can create tens of millions of unique items and industrial uses Jordan explains that although 3D printers have not become the ubiquitous home appliance once predicted they are making inroads into mass markets and he discusses the business factors that may hinder industry adoption of 3D printing technologies He considers the possible unintended consequences of 3D printing on jobs as companies scramble to find employees with an uncommon skill set on business models and supply chains as manufacturing is decentralized and on patent law as machines can be programmed to copy protected property Finally Jordan looks at new and emerging uses including bioprinting building construction and micromachines Representing Landscapes: Digital Nadia Amoroso, 2015-02-27 Most landscape architectural designs now include some form of digital representation but there is much more scope for creativity beyond the standard Photoshop montages In this new book on representing landscapes Nadia Amoroso brings together contributions from some of the leading landscape departments in the world to explore the variety in digital illustration methods In each chapter leading lecturers professors and practitioners in the field of landscape architecture explain a specific digital approach with the use of images from their department to show how each technique can be used in inspirational examples Throughout the book over 200 colour images cover the spectrum of digital representation to help discuss the various drawing types which are invaluable when communicating ideas in the field of landscape architecture With worked examples in the

chapters and downloadable images suitable for class use this is an essential book for visual communication and design studios Information and Society Michael Buckland, 2017-03-03 A short informal account of our ever increasing dependence on a complex multiplicity of messages records documents and data We live in an information society or so we are often told But what does that mean This volume in the MIT Press Essential Knowledge series offers a concise informal account of the ways in which information and society are related and of our ever increasing dependence on a complex multiplicity of messages records documents and data Using information in its everyday nonspecialized sense Michael Buckland explores the influence of information on what we know the role of communication and recorded information in our daily lives and the difficulty or ease of finding information He shows that all this involves human perception social behavior changing technologies and issues of trust Buckland argues that every society is an information society a non information society would be a contradiction in terms But the shift from oral and gestural communication to documents and the wider use of documents facilitated by new technologies have made our society particularly information intensive Buckland describes the rising flood of data documents and records outlines the dramatic long term growth of documents and traces the rise of techniques to cope with them He examines the physical manifestation of information as documents the emergence of data sets and how documents and data are discovered and used He explores what individuals and societies do with information offers a basic summary of how collected documents are arranged and described considers the nature of naming explains the uses of metadata and evaluates selection methods considering relevance recall and precision

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