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Excursions In Computer Science Ak Dewdney

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A step-by-step gentle journey through the mathematics of neural networks, and making your own using the Python computer language. Neural networks are a key element of deep learning and artificial intelligence, which today is capable of some truly impressive feats. Yet too few really understand how neural networks actually work. This guide

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will take you on a fun and unhurried journey, starting from very simple ideas, and gradually building up an understanding of how neural networks work. You won't need any mathematics beyond secondary school, and an accessible introduction to calculus is also included. The ambition of this guide is to make neural networks as accessible as possible to as many readers as possible - there are enough texts for advanced readers already! You'll learn to code in Python and make your own neural network, teaching it to recognise human handwritten numbers, and performing as well as professionally

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developed networks. Part 1 is about ideas. We introduce the mathematical ideas underlying the neural networks, gently with lots of illustrations and examples. Part 2 is practical. We introduce the popular and easy to learn Python programming language, and gradually builds up a neural network which can learn to recognise human handwritten numbers, easily getting it to perform as well as networks made by professionals. Part 3 extends these ideas further. We push the performance of our neural network to an industry leading 98% using only simple ideas and code, test the network on your own

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handwriting, take a privileged peek inside the mysterious mind of a neural network, and even get it all working on a Raspberry Pi. All the code in this has been tested to work on a Raspberry Pi Zero.

No other volume provides as broad, as thorough, or as accessible an introduction to the realm of computers as A. K. Dewdney's The Turing Omnibus. Updated and expanded, The Turing Omnibus offers 66 concise, brilliantly written articles on the major points of interest in computer science theory, technology, and applications. New for this tour: updated information on algorithms,

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detecting primes, noncomputable functions, and self-replicating computers--plus completely new sections on the Mandelbrot set, genetic algorithms, the Newton-Raphson Method, neural networks that learn, DOS systems for personal computers, and computer viruses.

The goal of this book is to teach you to think like a computer scientist. This way of thinking combines some of the best features of mathematics, engineering, and natural science. Like mathematicians, computer scientists use formal languages to denote ideas (specifically computations). Like

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engineers, they design things, assembling components into systems and evaluating tradeoffs among alternatives. Like scientists, they observe the behavior of complex systems, form hypotheses, and test predictions. The single most important skill for a computer scientist is problem solving. Problem solving means the ability to formulate problems, think creatively about solutions, and express a solution clearly and accurately. As it turns out, the process of learning to program is an excellent opportunity to practice problem-solving skills. That's why this chapter is called,

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The way of the program. On one level, you will be learning to program, a useful skill by itself. On another level, you will use programming as a means to an end. As we go along, that end will become clearer.

Provides an expansion of Turing's original paper, a brief look at his life, and information on the Turing machine and computability topics.

Algorithmic Puzzles

Fire in the Minds of Men

Beyond Reason

Julia Domna and the Imperial Politics of Motherhood

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The New Turing Omnibus

Towards a Post-Critical Philosophy

A mind-bending excursion to the limits of science and mathematics Are some scientific problems insoluble? In Beyond Reason, internationally acclaimed math and science author A. K. Dewdney answers this question by examining eight insurmountable mathematical and scientific roadblocks that have stumped thinkers across the centuries, from ancient mathematical conundrums such as "squaring the circle," first attempted by the Pythagoreans, to Gödel's vexing theorem, from perpetual motion to the

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unpredictable behavior of chaotic systems such as the weather. A. K. Dewdney, PhD (Ontario, Canada), was the author of Scientific American's "Computer Recreations" column for eight years. He has written several critically acclaimed popular math and science books, including A Mathematical Mystery Tour (0-471-40734-8); Yes, We Have No Neutrons (0-471-29586-8); and 200% of Nothing (0-471-14574-2).

The world-famous French singer Édith Piaf (1915-63) was never just a singer. This book suggests new ways of understanding her, her myth and her meanings over time at home and

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abroad, by proposing the notion of an 'imagined' Piaf.

Essays discuss computer programs dealing with fractals, mathematical problems, artificial intelligence, one dimensional computers, puzzles, simulation, and core wars

'The best fictional treatment of the possibilities and horrors of artificial intelligence that I've read' Guardian In 1997 Laura Bow invented Organon, a rudimentary artificial intelligence.

Being and Time

Make Your Own Neural Network

Computer Organization & Architecture 7e

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A Handbook of Computer Sorcery

Computer Algorithms C++

Origins of the Revolutionary Faith

Discusses chaos, computer viruses, fractal worlds, prototype computers, and artificial landscapes, and includes suggestions for a variety of interesting computer programs "No other volume provides as broad, as thorough, or as accessible an introduction to the realm of computers as A.K. Dewdney's The Turing Omnibus. Updated and expanded, The Turing Omnibus offers 66 concise, brilliantly written articles on the major points of interest in computer science theory, technology, and applications. New for this tour: updated information on algorithms, detecting primes,

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noncomputable functions, and self-replicating computers--plus completely new sections on the Mandelbrot set, genetic algorithms, the Newton-Raphson Method, neural networks that learn, DOS systems for personal computers, and computer viruses."--Book cover.

With contributions from leading brand experts around the world, this valuable resource delineates the case for brands (financial value, social value, etc.) and looks at what makes certain brands great. It covers best practices in branding and also looks at the future of brands in the age of globalization. Although the balance sheet may not even put a value on it, a company's brand or its portfolio of brands is its most valuable asset. For well-known companies it has been calculated that the brand can account for as much as 80 percent of their

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market value. This book argues that because of this and because of the power of not-for-profit brands like the Red Cross or Oxfam, all organisations should make the brand their central organising principle, guiding every decision and every action. As well as making the case for brands and examining the argument of the anti-globalisation movement that brands are bullies which do harm, this second edition of Brands and Branding provides an expert review of best practice in branding, covering everything from brand positioning to brand protection, visual and verbal identity and brand communications. Lastly, the third part of the book looks at trends in branding, branding in Asia, especially in China and India, brands in a digital world and the future for brands. Written by 19 experts in the field, Brands and Branding sets

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out to provide a better understanding of the role and importance of brands, as well as a wealth of insights into how one builds and sustains a successful brand.

This anthology of essays from the inventor of literate programming is a survey of Donald Knuth's papers on computer science. Donald Knuth's influence in computer science ranges from the invention of literate programming to the development of the TeX programming language. One of the foremost figures in the field of mathematical sciences, his papers are widely referenced and stand as milestones of development over a wide range of topics. This collection focuses on Professor Knuth's published science papers that serve as accessible surveys of their subject matter. It includes articles on the history of computing, algorithms, numerical

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techniques, computational models, typesetting, and more. This book will be appreciated by students and researchers from a wide range of areas within computer science and mathematics.

Operating Systems

THE MAN VERSUS THE STATE

Freedom in the World 2004

Maternal Megalomania

Introductory Computer Science

Sixty-Six Excursions in Computer Science

The anatomy theater is where students of the human body learn to isolate structures in decaying remains, scrutinize their parts, and assess their importance.

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Taking a new look at the history of anatomy, the author places public dissections alongside private ones to show how the anatomical theater was both a space of philosophical learning and a place where students learned to behave in a civil manner towards their teachers, their peers, and the corpse.

This timely revision will feature the latest Internet issues and provide an updated comprehensive look at social and ethical issues in computing from a computer science perspective.

This book traces the origins of a faith--perhaps the faith of the century. Modern revolutionaries are believers, no less committed and intense than were Christians or

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Muslims of an earlier era. What is new is the belief that a perfect secular order will emerge from forcible overthrow of traditional authority. This inherently implausible idea energized Europe in the nineteenth century, and became the most pronounced ideological export of the West to the rest of the world in the twentieth century. Billington is interested in revolutionaries--the innovative creators of a new tradition. His historical frame extends from the waning of the French Revolution in the late eighteenth century to the beginnings of the Russian Revolution in the early twentieth century. The theater was Europe of the industrial era; the main stage was the journalistic

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offices within great cities such as Paris, Berlin, London, and St. Petersburg. Billington claims with considerable evidence that revolutionary ideologies were shaped as much by the occultism and proto-romanticism of Germany as the critical rationalism of the French Enlightenment. The conversion of social theory to political practice was essentially the work of three Russian revolutions: in 1905, March 1917, and November 1917. Events in the outer rim of the European world brought discussions about revolution out of the school rooms and press rooms of Paris and Berlin into the halls of power. Despite his hard realism about the adverse practical consequences of

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revolutionary dogma, Billington appreciates the identity of its best sponsors, people who preached social justice transcending traditional national, ethnic, and gender boundaries. When this book originally appeared The New Republic hailed it as "remarkable, learned and lively," while The New Yorker noted that Billington "pays great attention to the lives and emotions of individuals and this makes his book absorbing." It is an invaluable work of history and contribution to our understanding of political life.

Why choke down bland, mushy, steamed veggies and brown rice when there's so much fat-laden, calorie-rich, heart-bursting cuisine out there to be savored?

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Because you want to live? So you can spend your golden years wandering aimlessly around a Florida shopping mall and eating dinner at 2 in the afternoon? So your rotten kids can plop you into some hellhole of a nursing home the minute you forget what day it is?

Computational Fairy Tales

Virtually Human

A Gift of Fire

Édith Piaf

61 Excursions in Computer Science

Eight Great Problems That Reveal the Limits of Science

One of the trends in twentieth century architecture and planning has been to denigrate and ignore the site, or

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larger context (both physical and social), surrounding a building or set of buildings. Focussing on Le Corbusier's designs, Site Matters presents that first considered theory and vocabulary for the inevitable reaction against Modernism in planning, beginning in the 1960s and swelling through the 1980s as architects and planners alike developed a new appreciation of site, reincorporating the wider context into their plans. Theoretical essays and empirically grounded pieces combine to provide the language and theory of this re-emergence of site, looking at Le Corbusier's designs, contemporary suburbs, and the planning agendas involved at the World Trade Center site. Groundbreaking and innovative, Site Matters provides

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valuable theory and vocabulary for planners and architects.

Algorithmic puzzles are puzzles involving well-defined procedures for solving problems. This book will provide an enjoyable and accessible introduction to algorithmic puzzles that will develop the reader's algorithmic thinking. The first part of this book is a tutorial on algorithm design strategies and analysis techniques. Algorithm design strategies — exhaustive search, backtracking, divide-and-conquer and a few others — are general approaches to designing step-by-step instructions for solving problems. Analysis techniques are methods for investigating such procedures to answer questions about the ultimate result

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the procedure or how many steps are executed before the procedure stops. The discussion is an elementary level, with puzzle examples, and requires neither programming nor mathematics beyond a secondary school level. Thus, the tutorial provides a gentle and entertaining introduction to main ideas in high-level algorithmic problem solving. The second and main part of the book contains 150 puzzles, from centuries-old classics to newcomers often asked during job interviews at computing, engineering, and financial companies. The puzzles are divided into three groups by their difficulty levels. The first fifty puzzles in the Easier Puzzles section require only middle school mathematics. The sixty puzzle of average difficulty

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and forty harder puzzles require just high school mathematics plus a few topics such as binary numbers and simple recurrences, which are reviewed in the tutorial. All the puzzles are provided with hints, detailed solutions, and brief comments. The comments deal with the puzzle origins and design or analysis techniques used in the solution. The book should be of interest to puzzle lovers, students and teachers of algorithm courses, and persons expecting to be given puzzles during job interviews.

2013 Reprint of 1962 American Edition. Full facsimile of the original edition, not reproduced with Optical Recognition Software. This edition reprints the text from the 1962 Revised Edition originally published by The

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University of Chicago Press. In this classic text Polanyi argued that the scientist is not a detached observer in the world of research: rather the scientist's personal participation in his knowledge, both in its discovery and its validation, is an indispensable part of science itself. Even in the exact sciences knowing is an art, in which the skill of the knower, guided by his passionate sense of increasing contact with reality, forms a logically necessary part. In the biological and social sciences this becomes even more evident. Polanyi argues against the urge to make knowledge impersonal.

From a distance the Tinkertoy computer resembles a childhood fantasy gone wild or, as one of the group

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members remarked, a spool-and-stick version of the 'space slab' from the movie 2001: A Space Odyssey. Unlike the alien monolith, the computer plays a mean game of tic-tac-toe. A Tinkertoy framework called the read head clicks and clacks its way down the from the the monolith. At some point the clicking mysteriously stops; a 'core piece' within the framework spins and then with a satisfying 'kathunk' indirectly kicks an 'output duck, ' a bird-shaped construction. The output duck swings down from its perch as that its beak points at a number--which identifies the computer's next move in a game of tic-tac-toe.

After the Digital Tornado

The Annotated Turing

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Brands and Branding

The Next Step

Social, Legal, and Ethical Issues for Computing
Technology

Your Life, Liberty, and Happiness After the Digital
Explosion

Every day, billions of photographs, news stories, songs, X-rays, TV shows, phone calls, and emails are being scattered around the world as sequences of zeroes and ones: bits. We can't escape this explosion of digital information and few of us want to-the benefits are too seductive. The technology has enabled unprecedented innovation, collaboration, entertainment, and democratic participation. But the same

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engineering marvels are shattering centuries-old assumptions about privacy, identity, free expression, and personal control as more and more details of our lives are captured as digital data. Can you control who sees all that personal information about you? Can email be truly confidential, when nothing seems to be private? Shouldn't the Internet be censored the way radio and TV are? is it really a federal crime to download music? When you use Google or Yahoo! to search for something, how do they decide which sites to show you? Do you still have free speech in the digital world? Do you have a voice in shaping government or corporate policies about any of this? Blown to Bits offers provocative answers to these questions and tells intriguing real-life stories. This book is a wake-up call To The human consequences of the digital

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explosion.

In *The Interpretation of Cultures*, the most original anthropologist of his generation moved far beyond the traditional confines of his discipline to develop an important new concept of culture. This groundbreaking book, winner of the 1974 Sorokin Award of the American Sociological Association, helped define for an entire generation of anthropologists what their field is ultimately about.

The author team that established its reputation nearly twenty years ago with *Fundamentals of Computer Algorithms* offers this new title, available in both pseudocode and C++ versions. Ideal for junior/senior level courses in the analysis of algorithms, this well-researched text takes a theoretical approach to the subject, creating a basis for more in-depth

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study and providing opportunities for hands-on learning. Emphasizing design technique, the text uses exciting, state-of-the-art examples to illustrate design strategies. Discusses a variety of topics in computer science, from cryptography and recursion to artificial intelligence and simulation

Endocytosis and Signaling

Invitation To Computer Science 4/e

Selected Papers on Computer Science

The (new) Turing Omnibus

Students, Teachers, and Traditions of Dissection in
Renaissance Venice

Theaters of Anatomy

Have you ever thought that computer science should include

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more dragons and wizards? Computational Fairy Tales introduces principles of computational thinking, illustrating high-level computer science concepts, the motivation behind them, and their application in a non-computer—fairy tale—domain. It's a quest that will take you from learning the basics of programming in a blacksmith's forge to fighting curses with recursion. Fifteen seers delivered the same prophecy, without so much as a single minstrel to lighten the mood: an unknown darkness threatens the kingdom. Suddenly, Princess Ann finds herself sent forth alone to save the kingdom. Leaving behind her home, family, and pet turtle Fido, Princess Ann must face goblin attacks, magical curses, arrogant scholars, an unpleasant oracle, and rude Boolean waiters. Along the way she must build a war

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chest of computational knowledge to survive the coming challenge.

The New Turing Omnibus Sixty-Six Excursions in Computer Science Macmillan

Ancient authors emphasize dramatic moments in the life of Julia Domna, wife of Roman emperor Septimius Severus (193 – 211). They accuse her of ambition unforgivable in a woman, of instigating civil war to place her sons on the throne, and of resorting to incest to maintain her hold on power. In imperial propaganda, however, Julia Domna was honored with unprecedented titles that celebrated her maternity, whether it was in the role of mother to her two sons (both future emperors) or as the metaphorical mother to the empire. Imperial propaganda

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even equated her to the great mother goddess, Cybele, endowing her with a public prominence well beyond that of earlier imperial women. Her visage could be found gracing everything from state-commissioned art to privately owned ivory dolls. In *Maternal Megalomania*, Julie Langford unmaskes the maternal titles and honors of Julia Domna as a campaign on the part of the administration to garner support for Severus and his sons. Langford looks to numismatic, literary, and archaeological evidence to reconstruct the propaganda surrounding the empress. She explores how her image was tailored toward different populations, including the military, the Senate, and the people of Rome, and how these populations responded to propaganda about the empress. She employs Julia Domna as a

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case study to explore the creation of ideology between the emperor and its subjects.

Virtually Human explores what the not-too-distant future will look like when cyberconsciousness—simulation of the human brain via software and computer technology—becomes part of our daily lives. Meet Bina48, the world's most sentient robot, commissioned by Martine Rothblatt and created by Hanson Robotics. Bina48 is a nascent Mindclone of Martine's wife that can engage in conversation, answer questions, and even have spontaneous thoughts that are derived from multimedia data in a Mindfile created by the real Bina. If you're active on Twitter or Facebook, share photos through Instagram, or blogging regularly, you're already on your way to creating a Mindfile—a

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digital database of your thoughts, memories, feelings, and opinions that is essentially a back-up copy of your mind. Soon, this Mindfile can be made conscious with special software—Mindware—that mimics the way human brains organize information, create emotions and achieve self-awareness. This may sound like science-fiction A.I. (artificial intelligence), but the nascent technology already exists.

Thousands of software engineers across the globe are working to create cyberconsciousness based on human consciousness and the Obama administration recently announced plans to invest in a decade-long Brain Activity Map project. Virtually Human is the only book to examine the ethical issues relating to cyberconsciousness and Rothblatt, with a Ph.D. in medical ethics,

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is uniquely qualified to lead the dialogue.

Exponential Life

I Still Dream

Networks, Algorithms, Humanity

C++ and Pseudocode Versions

A Cultural History

HT THINK LIKE A COMPUTER SCIEN

In this tale, first published serially in 1841 and 1842, Dickens follows Nell Trent, an angelic and unfailingly virtuous girl of "nearly fourteen" and her grandfather as they navigate a world populated by villains, criminals and ne'er-do-wells. The public

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response at the time equalled modern reactions to the Harry Potter books, the audience rapt to learn of Nell's fate. Does she live a life of comfort, of which her grandfather dreams? Or does fate have something less noble in store for poor Nell? This is a free digital copy of a book that has been carefully scanned by Google as part of a project to make the world's books discoverable online. To make this print edition available as an ebook, we have extracted the text using Optical Character Recognition (OCR) technology and

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submitted it to a review process to ensure its accuracy and legibility across different screen sizes and devices. Google is proud to partner with libraries to make this book available to readers everywhere.

"What is the meaning of being?" This is the central question of Martin Heidegger's profoundly important work, in which the great philosopher seeks to explain the basic problems of existence. A central influence on later philosophy, literature, art, and criticism—as well as existentialism and much of postmodern thought—Being and

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Time forever changed the intellectual map of the modern world. As Richard Rorty wrote in the New York Times Book Review, "You cannot read most of the important thinkers of recent times without taking Heidegger's thought into account." This first paperback edition of John Macquarrie and Edward Robinson's definitive translation also features a new foreword by Heidegger scholar Taylor Carman.

The Next Step: Exponential Life presents essays on the potential of what are known as "exponential technologies"--those whose

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development is accelerating rapidly, such as robotics, artificial intelligence or industrial biology--considering their economic, social, environmental, ethical and even ontological implications. This book's premise is that humanity is at the beginning of a technological revolution that is evolving at a much faster pace than earlier ones--a revolution is so far-reaching it is destined to generate transformations we can only begin to imagine. Contributors include Aubrey D.N.J. de Grey, Jonathan Rossiter, Joseph A. Paradiso, Kevin Warwick, Huma Shah,

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Ramón López de Mántaras, Helen Papagiannis, Jay David Bolter, Maria Engberg, Robin Hanson, Stuart Russell, Darrell M. West, Francisco González, Chris Skinner, Steven Monroe Lipkin, S. Matthew Liao, James Giordano, Luciano Floridi, Seán Ó Héigeartaigh and Martin Rees.
Freedom in the World contains both comparative ratings and written narratives and is now the standard reference work for measuring the progress and decline in political rights and civil liberties on a global basis.

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Principles and Practice

The Magic Machine

***The Promise—and the Peril—of Digital
Immortality***

Blown to Bits

The Armchair Universe

This introductory text provides both a foundation in a popular programming language (Turbo PASCAL) and an introduction to the principles and applications of the field. It stresses applications that demonstrate computers' many roles in our lives

This book focuses on the context dependency of cell signaling by showing how the endosomal system helps to structure and regulate

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signaling pathways. The location and concentration of signaling nodes regulate their activation cycles and engagement with distinct effector pathways. Whilst many cell signaling pathways are initiated from the cell surface, endocytosis provides an opportunity for modulating signaling networks' output. In this book, first a series of reviews describe the endocytic and endosomal system and show how these subcellular platforms sort and regulate a wide range of signaling pathway components and phenotypic outputs. The book then reviews the latest scientific insights into how endocytic trafficking and subcellular location modulate a set of major pathways that are essential to normal cellular function and organisms' development.

Over the past two decades, there has been a huge amount of innovation in both the principles and practice of operating systems

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Over the same period, the core ideas in a modern operating system - protection, concurrency, virtualization, resource allocation, and reliable storage - have become widely applied throughout computer science. Whether you get a job at Facebook, Google, Microsoft, or any other leading-edge technology company, it is impossible to build resilient, secure, and flexible computer systems without the ability to apply operating systems concepts in a variety of settings. This book examines the both the principles and practice of modern operating systems, taking important, high-level concepts all the way down to the level of working code. Because operating systems concepts are among the most difficult in computer science, this top to bottom approach is the only way to really understand and master this important material.

Networks powered by algorithms are pervasive. Major

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contemporary technology trends—Internet of Things, Big Data, Digital Platform Power, Blockchain, and the Algorithmic Society—are manifestations of this phenomenon. The internet, which once seemed an unambiguous benefit to society, is now the basis for invasions of privacy, massive concentrations of power, and wide-scale manipulation. The algorithmic networked world poses deep questions about power, freedom, fairness, and human agency. The influential 1997 Federal Communications Commission whitepaper “Digital Tornado” hailed the “endless spiral of connectivity” that would transform society, and today, little remains untouched by digital connectivity. Yet fundamental questions remain unresolved, and even more serious challenges have emerged. This important collection, which offers a reckoning and a foretelling, features leading technology scholars who

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explain the legal, business, ethical, technical, and public policy challenges of building pervasive networks and algorithms for the benefit of humanity. This title is also available as Open Access on Cambridge Core.

Bits of Theory, Bytes of Practice

An Exploration of Computer Worlds

66 Excursions in Computer Science

The Turing Omnibus

The Interpretation of Cultures

The Annual Survey of Political Rights & Civil Liberties