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KEY=THE - TIANA YOUNG

The Computer and the Brain. Yale University Mrs. H.E. Silliman Memorial Lecture Big Data Analytics and Machine Intelligence in Biomedical and Health Informatics Concepts, Methodologies, Tools and Applications John Wiley & Sons **BIG DATA ANALYTICS AND MACHINE INTELLIGENCE IN BIOMEDICAL AND HEALTH INFORMATICS Provides coverage of developments and state-of-the-art methods in the broad and diversified data analytics field and applicable areas such as big data analytics, data mining, and machine intelligence in biomedical and health informatics. The novel applications of Big Data Analytics and machine intelligence in the biomedical and healthcare sector is an emerging field comprising computer science, medicine, biology, natural environmental engineering, and pattern recognition. Biomedical and health informatics is a new era that brings tremendous opportunities and challenges due to the plentifully available biomedical data and the aim is to ensure high-quality and efficient healthcare by analyzing the data. The 12 chapters in??Big Data Analytics and Machine Intelligence in Biomedical and Health Informatics??cover the latest advances and developments in health informatics, data mining, machine learning, and artificial intelligence. They have been organized with respect to the similarity of topics addressed, ranging from issues pertaining to the Internet of Things (IoT) for biomedical engineering and health informatics, computational intelligence for medical data processing, and Internet of Medical Things??(IoMT). New researchers and practitioners working in the field will benefit from reading the book as they can quickly ascertain the best performing methods and compare the different approaches. Audience Researchers and practitioners working in the fields of biomedicine, health informatics, big data analytics, Internet of Things, and machine learning. Artificial Intelligence in Behavioral and Mental Health Care** Academic Press **Artificial Intelligence in Behavioral and Mental Health Care summarizes recent advances in artificial intelligence as it applies to mental health clinical practice. Each chapter provides a technical description of the advance, review of application in clinical practice, and empirical data on clinical efficacy. In addition, each chapter includes a discussion of practical issues in clinical settings, ethical considerations, and limitations of use. The book encompasses AI based advances in decision-making, in assessment and treatment, in providing education to clients, robot assisted task completion, and the use of AI for research and data gathering. This book will be of use to mental health practitioners interested in learning about, or incorporating AI advances into their practice and for researchers interested in a comprehensive review of these advances in one source. Summarizes AI advances for use in mental health practice Includes advances in AI based decision-making and consultation Describes AI applications for assessment and treatment Details AI advances in robots for clinical settings Provides empirical data on clinical efficacy Explores practical issues of use in clinical settings After Digital Computation As Done by Brains and Machines** Oxford University Press **Current computer technology doubles in in power roughly every two years, an increase called "Moore's Law." This constant increase is predicted to come to an end soon. Digital technology will change. Although digital computers dominate today's world, there are alternative ways to "compute," which might be better and more efficient than digital computation. After Digital looks at where the field of computation began and where it might be headed, and offers predictions about a collaborative future relationship between human cognition and mechanical computation. James A. Anderson, a pioneer of biologically inspired neural nets, presents two different kinds of computation-digital and analog--and gives examples of their history, function, and limitations. A third, the brain, falls somewhere in between these two forms, and is suggested as a computer architecture that is more capable of performing some specific important cognitive tasks-perception, reasoning, and intuition, for example- than a digital computer, even though the digital computer is constructed from far faster and more reliable basic elements. Anderson discusses the essentials of brain hardware, in particular, the cerebral cortex, and how cortical structure can influence the form taken by the computational operations underlying cognition. Topics include association, understanding complex systems through analogy, formation of abstractions, the biology of number and its use in arithmetic and mathematics, and computing across scales of organization. These applications, of great human interest, also form the goals of genuine artificial intelligence. After Digital will appeal to a broad cognitive science community, including computer scientists, philosophers, psychologists, and neuroscientists, as well as the curious science layreader, and will help to understand and shape future developments in computation. The Power of Not Thinking How Our Bodies Learn and Why We Should Trust Them** Rowman & Littlefield **Drawing upon an incredible range of cutting-edge science, real-life examples, and personal experience, Simon Roberts explores the complexity of even the simplest of tasks that humans perform every day and explains how, with a greater awareness of the processes at work, we can tap into our full potential and excel in any area of our lives. On Handling the Data** Simon and Schuster **Sometimes a story is best told by omission! A short story from prolific writer M.I. Mayfield. Yale Sheffield Monthly Bedrock The Evolution of Modern Medicine A Series of Lectures Delivered at Yale University on the Silliman Foundation, in April, 1913** New Haven : Yale University Press **Based on the Silliman Lectures delivered at Yale in 1913, this book remained unfinished at Osler's death. He requested in his will that it and his other unfinished works not be published. However, it was prepared for publication by Harvey Cushing, Archibald Malloch and others. Garrison said it is one of the most interesting short histories of medicine, written in Osler's charming style, an excellent book to begin the study of medical history. The Publishers Weekly The Computer and the Brain** Yale University Press **This book represents the views of one of the greatest mathematicians of the twentieth century on the analogies between computing machines and the living human brain. John von Neumann concludes that the brain operates in part digitally, in part analogically, but uses a peculiar statistical language unlike that employed in the operation of man-made computers. This edition includes a new foreword by two eminent figures in the fields of philosophy, neuroscience, and consciousness. The Mathematician's Brain A Personal Tour Through the Essentials of Mathematics and Some of the Great Minds Behind Them** Princeton University Press **The Mathematician's Brain poses a provocative question about the world's most brilliant yet eccentric mathematical minds: were they brilliant because of their eccentricities or in spite of them? In this thought-provoking and entertaining book, David Ruelle, the well-known mathematical physicist who helped create chaos theory, gives us a rare insider's account of the celebrated mathematicians he has known-their quirks, oddities, personal tragedies, bad behavior, descents into madness, tragic ends, and the sublime, inexpressible beauty of their most breathtaking mathematical discoveries. Consider the case of British mathematician Alan Turing. Credited with cracking the German Enigma code during World War II and conceiving of the modern computer, he was convicted of "gross indecency" for a homosexual affair and died in 1954 after eating a cyanide-laced apple--his death was ruled a suicide, though rumors of assassination still linger. Ruelle holds nothing back in his revealing and deeply personal reflections on Turing and other fellow mathematicians, including Alexander Grothendieck, René Thom, Bernhard Riemann, and Felix Klein. But this book is more than a mathematical tell-all. Each chapter examines an important mathematical idea and the visionary minds behind it. Ruelle meaningfully explores the philosophical issues raised by each, offering insights into the truly unique and creative ways mathematicians think and showing how the mathematical setting is most favorable for asking philosophical questions about meaning, beauty, and the nature of reality. The Mathematician's Brain takes you inside the world--and heads--of mathematicians. It's a journey you won't soon forget. The Memory System of the Brain** Univ of California Press **This title is part of UC Press's Voices Revived program, which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice, reach, and impact. Drawing on a backlist dating to 1893, Voices Revived makes high-quality, peer-reviewed scholarship accessible once again using print-on-demand technology. This title was originally published in 1966. Yale Alumni Weekly Current Catalog First multi-year cumulation covers six years: 1965-70. The Computer and the Brain This book, composed of material prepared for the Silliman Lectures by john von Neumann before his death, represents the views of one of the greatest mathematicians of the twentieth century on the analogies between computing machines adn the living human brain. He concludes that the brain operates in part digitally, in part analogically, but uses a peculiar statistical language unlike that employed in the operation of man-made computers. Instruments of Communication An Essay on Scientific Writing** Elsevier **Instruments of Communication: An Essay on Scientific Writing provides an introduction to the instruments of logic and language. This book focuses on what people use in their communications, such as the materials and forms by means of which people share their experiences, meanings, intentions, feelings, hopes, and understandings. Organized into five parts encompassing 20 chapters, this book begins with an overview of the different forms of inter-organic communication. This text then examines the particular case of rational communication wherein it results in a shared understanding. Other chapters consider a certain concept of brain-function that underlies the treatment of language. This book discusses as well the concept of communication, which is not simply a process of transmitting messages but a process of sharing experiences. The final chapter deals with the different ways of classifying social behavior and explores the associative basis of communication. This book is a valuable resource for scientists, physicists, physiologists, and psychologists. National Library of Medicine Catalog Catalog New York Medical Journal Catalog of Copyright Entries. Third Series 1958: January-June** Copyright Office, Library of Congress **Includes Part 1, Number 1: Books and Pamphlets, Including Serials and Contributions to Periodicals (January - June) International Record of Medicine and General Practice Clinics Turing's Cathedral The Origins of the Digital Universe** Vintage **Presents the history of the invention of computers, describing the collaboration of John von Neumann and his colleagues as they worked together to create the first computer, an event which led to the hydrogen bomb and the birth of the digital age. Matters of the Mind** Routledge **This book presents a popular and authoritative account of the dramatically different ways in which philosophers have thought about the mind over the last hundred years. It explores the effect of the major turning points in recent western philosophy as well as the influence of the leading figures. Rebel Genius Warren S. McCulloch's Transdisciplinary Life in Science** MIT Press **The life and work of a scientist who spent his career crossing disciplinary boundaries—from experimental neurology to psychiatry to cybernetics to engineering. Warren S. McCulloch (1898–1969) adopted many identities in his scientific life—among them philosopher, poet, neurologist, neurophysiologist, neuropsychiatrist, collaborator, theorist, cybernetician, mentor, engineer. He was, writes Tara Abraham in this account of McCulloch's life and work, "an intellectual showman," and performed this part throughout his career. While McCulloch claimed a common thread in his work was the problem of mind and its relationship to the brain, there was much more to him than that. In Rebel Genius, Abraham uses McCulloch's life as a window on a past scientific age, showing the complex transformations that took place in American brain and mind science in the twentieth century—particularly those surrounding the cybernetics movement. Abraham describes McCulloch's early work in neuropsychiatry, and his emerging identity as a neurophysiologist. She explores his transformative years at the Illinois Neuropsychiatric Institute and his work with Walter Pitts—often seen as the first iteration of "artificial intelligence" but here described as stemming from the new tradition of mathematical treatments of biological problems. Abraham argues that McCulloch's dual identities as neuropsychiatrist and cybernetician are inseparable. He used the authority he gained in traditional disciplinary roles as a basis for posing big questions about the brain and mind as a cybernetician. When McCulloch moved to the Research Laboratory of Electronics at MIT, new practices for studying the brain, grounded in mathematics, philosophy, and theoretical modeling, expanded the relevance and ramifications of his work. McCulloch's transdisciplinary legacies anticipated today's multidisciplinary field of cognitive science. The Brain and Regulation of Eye Movement** Springer Science & Business Media **Dr. Shakhnovich brought out the original Russian edition of this work in 1974. Fully half of that book was concerned with his own studies of eye movements. These included observations on patients with neuromuscular disorders that produced unique oculomotor deficits. Other anomalies of eye motility resulted from local changes in cerebral and cerebellar blood flow and the effects of surgical intervention for aneurisms and brain tumors. Supplementary experi ments included the probing of single units in the motor and visual brain areas of rabbits. Still other studies were done on**

normal human eye movements with the aid of the Yarbus "cap" attachment to the cornea of the eye. A major aim of the original book was to show that eye movements provide a relatively simple illustration of "goal-directed behavior." This traditional Russian theme, developed by Sechenov, Pavlov, and Bemshtein, was put forth as a unifying concept to explain the author's findings. Consideration was also given to Western ideas ana problems that dominated the research of the 1950's and 1960's. Among these, as summarized by Dr. Shakhnovich, were perceptual constancy, corollary discharge, saccadic suppression, and the effects of image stabilization. Quarterly Booklist The Bobbs-Merrill Reprints Series in History of Science Ardent Media **A World of Letters Yale University Press, 1908-2008** Yale University Press **For Yale University Press, which celebrates its hundredth birthday in 2008, the century has been an eventful one, punctuated with no few surprises. The Press has published more than 8,000 volumes through the years, scores of bestsellers and award-winners among them, and these books have come to fruition through the efforts of a host of colorful authors, editors, directors, board members, and others of intellectual and literary renown. With an ear always cocked for an interesting tale, one of today's best storytellers presents an anecdote-rich chronicle of the Press's first 100 years. Nicholas Basbanes, whom David McCullough has called the leading authority of books about books, quickly convinces us that the Press's history, while bookish, is also lively and fascinating. Basbanes explores the saga behind the acquisition of Eugene O'Neill's blockbuster play, the all-time Yale bestseller Long Day's Journey into Night; the controversy sparked in 1965 by publication of The Vinland Map; the origins of the groundbreaking Annals of Communism series, initiated in the wake of the Soviet Union's demise; and many more highlights from Press annals. Basbanes looks at the reasons behind the publisher's remarkable financial success, and he completes A World of Letters with a glimpse at the new initiatives that will propel the Press into a second exciting century. Science in the Forest, Science in the Past Further Interdisciplinary Explorations** Routledge **Science in the Forest, Science in the Past: Further Interdisciplinary Explorations comprises of papers from the second of two workshops involving a group of scholars united in the conviction that the great diversity of knowledge claims and practices for which we have evidence must be taken seriously in their own terms rather than by the yardstick of Western modernity. Bringing to bear social anthropology, history and philosophy of science, computer science, classics and sinology among other fields, they argue that the use of such dismissive labels as ‘magic’, ‘superstition’ and the ‘irrational’ masks rather than solves the problem and reject counsels of despair which assume or argue that radically alien beliefs are strictly unintelligible to outsiders and can be understood only from within the system in question. At the same time, they accept that how to proceed to a better understanding of the data in question poses a formidable challenge. Key problems identified in the inaugural workshop, whose proceedings were published in HAU: Journal of Ethnographic Theory (2019) and in HAU Books (2020), provided the basis for asking how obvious pitfalls might be avoided and a new or revised framework within which to pursue these problems proposed. The chapters in this book were originally published in Interdisciplinary Science Reviews. Journal of the Minnesota State Medical Association and the Northwestern Lancet Paleontology and Modern Biology** Elliots Books **Applied Automata Theory** Academic Press **Applied Automata Theory provides an engineering style of presentation of some of the applied work in the field of automata theory. Topics covered range from algebraic foundations and recursive functions to regular expressions, threshold logic, and switching circuits. Coding problems and stochastic processes are also discussed, along with content addressable memories, probabilistic reliability, and Turing machines. Much emphasis is placed on engineering applications. Comprised of nine chapters, this book first deals with the algebraic foundations of automata theory, focusing on concepts such as semigroups, groups and homomorphisms, and partially ordered sets and lattices, as well as congruences and other relations. The reader is then introduced to regular expressions; stochastic automata and discrete systems theory; and switching networks as models of discrete stochastic processes. Subsequent chapters explore applications of automata theory in coding; content addressable and distributed logic memories; recursive functions and switching-circuit theory; and synthesis of a cellular computer. The book concludes with an assessment of the fundamentals of threshold logic. This monograph is intended for graduates or advanced undergraduates taking a course in information science or a course on discrete systems in modern engineering curriculum. Neurobiology A Functional Approach** Oxford University Press **Focusing on the problems that brains help organisms solve, Neurobiology: A Functional Approach asks not only how the nervous system works but also why it works as it does. This text introduces readers to neurobiology through an evolutionary, organismal, and experimental perspective. With a strong emphasis on neural circuits and systems, it bridges the gap between the cellular and molecular end and the cognitive end of the neuroscience spectrum, allowing students to grasp the full breadth of the subject. Neurobiology covers not only what neuroscientists have learned about the brain in terms of facts and ideas, but also how they have learned it through key experiments. The Computer and the Brain Mathematical and Engineering Methods in Computer Science 7th International Doctoral Workshop, MEMICS 2011, Lednice, Czech Republic, October 14-16, 2011, Revised Selected Papers** Springer Science & Business Media **This volume constitutes the thoroughly refereed post-conference proceedings of the 7th International Doctoral Workshop on Mathematical and Engineering Methods in Computer Science, MEMICS 2011, held in Lednice, Czech Republic, on October 14-16, 2011. The 13 revised full papers presented together with 6 invited talks were carefully reviewed and selected from 38 submissions. The papers address all current issues of mathematical and engineering methods in computer science, especially: software and hardware dependability, computer security, computer-aided analysis and verification, testing and diagnostics, simulation, parallel and distributed computing, grid computing, computer networks, modern hardware and its design, non-traditional computing architectures, software engineering, computational intelligence, quantum information processing, computer graphics and multimedia, signal, text, speech, and image processing, and theoretical computer science. Benjamin Silliman A Life in the Young Republic** Princeton University Press **Poet, essayist, chemist, geologist, educator, entrepreneur, publisher--Benjamin Silliman (1779-1864) was one of the virtuosi of the Early Republic and a founder of the American scientific community. This absorbing biography is not only a study of the youth and early career of a complex and remarkable man but also a window on his times. In lively and often moving detail, Chandos Michael Brown opens the broad context of Silliman's life in his native Connecticut. From Silliman's father's disastrous captivity among the British during the Revolution to the intensities of New England religious revivals, from the international celebrity of the Weston Meteor to the economic hazards of introducing artificial mineral waters to the New York market, here is an engaging portrayal of the growth of an American scientist within his rich cultural setting. Brown tells how the young Silliman confronted the declining fortunes of his distinguished family and how he strove to invent a new career worthy of his ambition and social standing. He describes Silliman's education at Yale College and in Philadelphia, his European tour, and his subsequent activities as a professor of chemistry and mineralogy, founder of the Yale Medical School, and editor of the American Journal of Science. Throughout this cultural biography, Silliman appears as the concerned member of an often troubled family--a man who nonetheless managed to achieve that elusive quality, greatly admired by his contemporaries, that of the representative American. Originally published in 1990. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905. National Library of Medicine Current Catalog Cumulative listing Finding Ultimate Reality In Search of the Best Answers to the Biggest Questions** Myrtlefield House **We need a coherent picture of our world. Life’s realities won’t let us ignore its fundamental questions, but with so many opposing views, how will we choose answers that are reliable? In this series of books, David Gooding and John Lennox offer a fair analysis of religious and philosophical attempts to find the truth about the world and our place in it. By listening to the Bible alongside other leading voices, they show that it is not only answering life’s biggest questions—it is asking better questions than we ever thought to ask. In Book 2 – Finding Ultimate Reality, they remind us that the authority behind ethics cannot be separated from the truth about ultimate reality. Is there a Creator who stands behind his moral law? Are we the product of amoral forces, left to create moral consensus? Gooding and Lennox compare ultimate reality as understood in: Indian Pantheistic Monism, Greek Philosophy and Mysticism, Naturalism and Atheism, and Christian Theism. Being Truly Human The Limits of Our Worth, Power, Freedom and Destiny** Myrtlefield House **We need a coherent picture of our world. Life’s realities won’t let us ignore its fundamental questions, but with so many opposing views, how will we choose answers that are reliable? In this series of books, David Gooding and John Lennox offer a fair analysis of religious and philosophical attempts to find the truth about the world and our place in it. By listening to the Bible alongside other leading voices, they show that it is not only answering life’s biggest questions—it is asking better questions than we ever thought to ask. In Book 1 – Being Truly Human, Gooding and Lennox address issues surrounding the value of humans. They consider the nature and basis of morality, compare what morality means in different systems, and assess the dangerous way freedom is often devalued. What should guide our use of power? What should limit our choices? And to what extent can our choices keep us from fulfilling our potential?**