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ANTONY VANG

Micro-Electronics and Telecommunication Engineering Machine Learning Mastery

This book collects research works of data-driven medical diagnosis done via Artificial Intelligence based solutions, such as Machine Learning, Deep Learning and Intelligent Optimization. Physical devices powered with Artificial Intelligence are gaining importance in diagnosis and healthcare. Medical data from different sources can also be analyzed via Artificial Intelligence techniques for more effective results.

Decision Mathematics U. S. National Aeronautics & Space Administration

This book comprises the refereed proceedings of the International Conference, AIM/CCPE 2012, held in Bangalore, India, in April 2012. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of research and development activities in computer science, information technology, computational engineering, mobile communication, control and instrumentation, communication system, power electronics and power engineering.

Computational Intelligence in Data Mining Oxford University Press

This book constitutes the thoroughly refereed post-proceedings of the 4th International Information Hiding Workshop, IHW 2001, held in Pittsburgh, PA, USA, in April 2001. The 29 revised full papers presented were carefully selected during two rounds of reviewing and revision. All current issues in information hiding are addressed including watermarking and fingerprinting of digital audio, still image and video; anonymous communications; steganography and subliminal channels; covert channels; and database inference channels.

Internet of Things Applications Children's Defense Fund

This book presents the latest cutting edge research, theoretical methods, and novel applications in the field of computational intelligence and computational biological approaches that are aiming to combat COVID-19. The book gives the technological key drivers behind using AI to find drugs that target the virus, shedding light on the structure of COVID-19, detecting the outbreak and spread of new diseases, spotting signs of a COVID-19 infection in medical images, monitoring how the virus and lockdown is affecting mental health, and forecasting how COVID-19 cases and deaths will spread across cities and why. Further, the book helps readers understand computational intelligence techniques combating COVID-19 in a simple and systematic way.

Introduction to Information Retrieval DIANE Publishing

This proceeding discuss the latest solutions, scientific findings and methods for solving intriguing problems in the fields of data mining, computational intelligence, big data analytics, and soft computing. This gathers outstanding papers from the fifth International Conference on "Computational Intelligence in Data Mining" (ICCIDM), and offer a "sneak preview" of the strengths and weaknesses of trending applications, together with exciting advances in computational intelligence, data mining, and related fields.

Current Trends in High Performance Computing and Its Applications Springer

This open access book, published under a CC BY 4.0 license in the Pubmed indexed book series Handbook of Experimental Pharmacology, provides up-to-date information on best practice to improve experimental design and quality of research in non-clinical pharmacology and biomedicine.

Daily Language Review Cambridge University Press

This brand new series has been written for the University of Cambridge International Examinations course for AS and A Level Mathematics (9709).

This title covers the requirements of P1. The authors are experienced examiners and teachers who have written extensively at this level, so have ensured all mathematical concepts are explained using language and terminology that is appropriate for students across the world. Students are provided with clear and detailed worked examples and questions from Cambridge International past papers, so they have the opportunity for plenty of essential exam practice. Each book contains a free CD-ROM which features the unique 'Personal Tutor' and 'Test Yourself' digital resources that will help students revise and reinforce concepts away from the classroom: - With Personal Tutor each student has access to audio-visual, step-by-step support through exam-style questions - The Test Yourself interactive multiple choice questions identify weaknesses and point students in the right direction

Beyond Barrows Springer

Internet of Things Applications aims to provide a broad overview of various topics of Internet of Things (IoT) from the research, innovation, and development priorities to enabling technologies, nanoelectronics, cyber physical systems, architecture, interoperability, and industrial applications. It is intended to be a standalone book in a series that covers the IoT activities of the Internet of Things European Research Cluster (IERC) from technology to international cooperation and the global "state of play." The book builds on the ideas put forward by the IERC Strategic Research Agenda and presents global views and state-of-the-art results on the challenges the research, development, and deployment of IoT face at the global level. IoT is creating a revolutionary new paradigm with opportunities in every industry, including Health Care, Pharmaceuticals, Food and Beverage,

Agriculture, Computer, Electronics Telecommunications, Automotive, Aeronautics, Transportation Energy, and Retail, to apply the massive potential of the IoT to achieving real-world solutions. The beneficiaries will include semiconductor companies, device and product companies, infrastructure software companies, application software companies, consulting companies, and telecommunication and cloud service providers. IoT will create new revenues annually for these stakeholders and potentially create substantial market share shakeups due to increased technology competition. The IoT will fuel technology innovation by creating the means for machines to communicate several different types of information with one another. At the same time, it will contribute to the increased value of information created by the number of interconnections among things and the transformation of the processed information into knowledge shared in the Internet of Everything. The success of IoT depends strongly on enabling technology development, market acceptance, and standardization, which provides interoperability, compatibility, reliability, and effective operations on a global scale. The connected devices are part of ecosystems connecting people, processes, data, and things which are communicating in the cloud, using the increased storage and computing power and pushing for standardization of communication and metadata. In this context, product manufacturers have to address security, privacy, safety, and trust through the life cycle of their products, from design to the support processes. The IoT developments address the whole IoT spectrum - from devices at the edge to cloud and datacentres on the backend and everything in between - through ecosystems created by industry, research, and application stakeholders that enable real-world use cases to accelerate the IoT and establish open interoperability standards and common architectures for IoT solutions. Enabling technologies such as nanoelectronics, sensors/actuators, cyber-physical systems, intelligent device management, smart gateways, telematics, smart network infrastructure, cloud computing, and software technologies will create new products, services, and interfaces by creating smart environments and smart spaces with applications ranging from Smart Cities, smart transport, buildings, energy, and grid to smart health and life. Technical topics discussed in the book include: * Introduction * Internet of Things Strategic Research and Innovation Agenda * Internet of Things in the industrial context: Time for deployment. * Integration of heterogeneous smart objects, applications and services * Evolution from device to semantic and business interoperability * Software define and virtualization of network resources * Innovation through interoperability and standardisation when everything is connected anytime at anyplace * Dynamic context-aware scalable and trust-based IoT Security, Privacy framework * Federated Cloud service management and the Internet of Things * Internet of Things Applications

Pure mathematics 1 Walter de Gruyter GmbH & Co KG

A statistical language model, or more simply a language model, is a probabilistic mechanism for generating text. Such a definition is general enough to include an endless variety of schemes. However, a distinction should be made between generative models, which can in principle be used to synthesize artificial text, and discriminative techniques to classify text into predefined categories. The first statistical language modeler was Claude Shannon. In exploring the application of his newly founded theory of information to human language, Shannon considered language as a statistical source, and measured how well simple n-gram models predicted or, equivalently, compressed natural text. To do this, he estimated the entropy of English through experiments with human subjects, and also estimated the cross-entropy of the n-gram models on natural text. The ability of language models to be quantitatively evaluated in this way is one of their important virtues. Of course, estimating the true entropy of language is an elusive goal, aiming at many moving targets, since language is so varied and evolves so quickly. Yet fifty years after Shannon's study, language models remain, by all measures, far from the Shannon entropy limit in terms of their predictive power. However, this has not kept them from being useful for a variety of text processing tasks, and moreover can be viewed as encouragement that there is still great room for improvement in statistical language modeling.

Deep Learning for Natural Language Processing Springer Nature

The book covers the Aircraft Energy Efficiency (ACEE), consisting of six aeronautical projects born out of the energy crisis of the 1970s and divided between the Lewis and Langley Research Centers in Ohio and Virginia.

Language Modeling for Information Retrieval Springer

This book presents the latest research in the fields of computational intelligence, ubiquitous computing models, communication intelligence, communication security, machine learning, informatics, mobile computing, cloud computing and big data analytics. The best selected papers, presented at the International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2020), are included in the book. The book focuses on the theory, design, analysis, implementation and applications of distributed systems and networks.

Bifurcation and Chaos: Analysis, Algorithms, Applications Springer Science & Business Media

Deep learning methods are achieving state-of-the-art results on challenging machine learning problems such as describing photos and translating text from one language to another. In this new laser-focused Ebook, finally cut through the math, research papers and patchwork descriptions about natural language processing. Using clear explanations, standard Python libraries and step-by-step tutorial lessons you will discover what natural language processing is, the promise of deep learning in the field, how to clean and prepare text data for modeling, and how to develop deep learning models for your own natural language processing projects.

Mathematics, History and Politics in the Work of Wu Wen-Tsun Routledge

Written to match the contents of the Cambridge syllabus. Pure Mathematics 2 corresponds to units P2 and P3. It covers algebra, logarithmic and exponential functions, trigonometry, differentiation, integration, numerical solution of equations, vectors, differential equations and complex numbers.

Proceedings of the International Conference on High Performance Computing and Applications, August 8-10, 2004, Shanghai, P.R. China Springer

This volume constitutes the proceedings of the 11th International Conference on Intelligent Human Computer Interaction, IHCI 2019, held in Allahabad, India, in December 2019. The 25 full papers presented in this volume were carefully reviewed and selected from 73 submissions. The papers are grouped in the following topics: EEG and other biological signal based interactions; natural language, speech and dialogue processing; vision based interactions; assistive living and rehabilitation; and applications of HCI.

Select Proceedings of ICSC 2018 Springer Science & Business Media

AS/A Level Maths for Edexcel - Decision Maths 1: Student Book

Computational Intelligence Techniques for Combating COVID-19 Springer Nature

Easing the transition from GCSE to AS level, this textbook meets the 2004 Edexcel specifications and provides numerous worked examples and solutions to aid understanding of key concepts.

The "Apollo" of Aeronautics Springer Nature

Since the publication of the first edition in 2004, advances in mobile devices, positioning sensors, WiFi fingerprinting, and wireless communications, among others, have paved the way for developing new and advanced location-based services (LBSs). This second edition provides up-to-date information on LBSs, including WiFi fingerprinting, mobile computing, geospatial clouds, geospatial data mining, location privacy, and location-based social networking. It also includes new chapters on application areas such as LBSs for public health, indoor navigation, and advertising. In addition, the chapter on remote sensing has been revised to address advancements.

Further Pure Mathematics Newnes

Following on from *Introducing Pure Mathematics* by Smedley and Wiseman, *Further Pure Mathematics* covers in one volume all the pure mathematics

required by students taking further mathematics. It also provides the basics for mathematics encountered in Higher Education. A clear text is supported by worked examples, exercises, and examination questions. The two books will cover the requirements of Pure Mathematics as part of double-certification Mathematics for any examinations board. · Clearly written explanations and graded worked examples to help students when they are studying alone · Wide variety of exercises · Comprehensive selection of recent exam questions from all the major examination boards

A Report Springer Science & Business Media

The CIA's 2013 release of its book *The Central Intelligence Agency and Overhead Reconnaissance 1954-1974* is a fascinating and important historical document. It contains a significant amount of newly declassified material with respect to the U-2 and Oxcart programs, including names of pilots; codenames and cryptonyms; locations, funding, and cover arrangements; electronic countermeasures equipment; cooperation with foreign governments; and overflights of the Soviet Union, Cuba, China, and other countries. Originally published with a Secret/No Foreign Dissemination classification, this detailed study describes not only the program's technological and bureaucratic aspects, but also its political and international context, including the difficult choices faced by President Eisenhower in authorizing overflights of the Soviet Union and the controversy surrounding the shoot down there of U-2 pilot Francis Gary Powers in 1960. The authors discuss the origins of the U-2, its top-secret testing, its specially designed high-altitude cameras and complex life-support systems, and even the possible use of poison capsules by its pilots, if captured. They call attention to the crucial importance of the U-2 in the gathering of strategic and tactical intelligence, as well as the controversies that the program unleashed. Finally, they discuss the CIA's development of a successor to the U-2, the Oxcart, which became the world's most technologically advanced aircraft. For the first time, the more complete 2013 release of this historical text is available in a professionally typeset format, supplemented with higher quality photographs that will bring alive these incredible aircraft and the story of their development and use by the CIA. This edition also includes a new preface by author Gregory W. Pedlow and a foreword by Chris Pocock. Skyhorse Publishing, as well as our Arcade imprint, are proud to publish a broad range of books for readers interested in history--books about World War II, the Third Reich, Hitler and his henchmen, the JFK assassination, conspiracies, the American Civil War, the American Revolution, gladiators, Vikings, ancient Rome, medieval times, the old West, and much more. While not every title we publish becomes a New York Times bestseller or a national bestseller, we are committed to books on subjects that are sometimes overlooked and to authors whose work might not otherwise find a home.

Grade 7, Student Book 5-Pack Springer

Introduction to Information Retrieval Cambridge University Press