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Popular Science CRC Press

There are a number of books on computational intelligence (CI), but they tend to cover a broad range of CI paradigms and algorithms rather than provide an in-depth exploration in learning and adaptive mechanisms. This book sets its focus on CI based architectures, modeling, case studies and applications in big data analytics, and business intelligence. The intended audiences of this book are scientists, professionals, researchers, and academicians who deal with the new challenges and advances in the specific areas mentioned above. Designers and developers of applications in these areas can learn from other experts and colleagues through this book.

Moody's OTC Unlisted Manual CRC Press

This book gathers selected papers presented at the 4th International Conference on Wireless Communications and Applications (ICWCA 2020), held at Hainan University, China. The second volume will involve research works aimed at the contemporary applications: emerging wireless/mobile applications, context and location-aware wireless services; wireless telemedicine and e-health services; intelligent transportation systems; RFID technology and application; cognitive radio and sensor-based applications; content distribution in wireless home environment and many others.

Computational Intelligence Applications in Business Intelligence and Big Data Analytics Springer Nature

In this book, Dr. Soofastaei and his colleagues reveal how all mining managers can effectively

deploy advanced analytics in their day-to-day operations- one business decision at a time. Most mining companies have a massive amount of data at their disposal. However, they cannot use the stored data in any meaningful way. The powerful new business tool-advanced analytics enables many mining companies to aggressively leverage their data in key business decisions and processes with impressive results. From statistical analysis to machine learning and artificial intelligence, the authors show how many analytical tools can improve decisions about everything in the mine value chain, from exploration to marketing. Combining the science of advanced analytics with the mining industrial business solutions, introduce the “ Advanced Analytics in Mining Engineering Book ” as a practical road map and tools for unleashing the potential buried in your company ’ s data. The book is aimed at providing mining executives, managers, and research and development teams with an understanding of the business value and applicability of different analytic approaches and helping data analytics leads by giving them a business framework in which to assess the value, cost, and risk of potential analytical solutions. In addition, the book will provide the next generation of miners – undergraduate and graduate IT and mining engineering students – with an understanding of data analytics applied to the mining industry. By providing a book with chapters structured in line with the mining value chain, we will provide a clear, enterprise-level view of where and how advanced data analytics can best be applied. This book highlights the potential to interconnect activities in the mining enterprise better. Furthermore, the book explores the opportunities for optimization and increased productivity offered by better interoperability along the mining value chain – in line with the emerging vision of creating a digital mine with much-enhanced capabilities for modeling, simulation, and the use of digital twins – in line with leading “ digital ” industries.

Automotive Technician Training: Theory Springer Nature Guide to information on ... cars and light trucks.

Moody's Industrial Manual CRC Press

This book covers recent trends in the field of devices, wireless communication and networking. It gathers selected papers presented at the 6th International Conference on Communication, Devices and Networking (ICCDN 2022), which was organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India, on

December 16 – 17, 2022. Gathering cutting-edge research papers prepared by researchers, engineers and industry professionals, it helps young and experienced scientists and developers alike to explore new perspectives and offer them inspirations on how to address real-world problems in the areas of electronics, communication, devices and networking.

Mergent Industrial Manual Leilani Katie Publication

Authors have attempted to create coherent chapters and sections on how the fundamentals of maintenance cost should be organized, to present them in a logical and sequential order. Necessarily, the text starts with importance of maintenance function in the organization and moves to life cycle cost (LCC) considerations followed by the budgeting constraints. In the process, they have intentionally postponed the discussion about intangible costs and downtime costs later on in the book mainly due to the controversial part of it when arguing with managers. The book will be concluding with a short description of a number of sectors where maintenance cost is of critical importance. The goal is to train the readers for a deeper study and understanding of these elements for decision making in maintenance, more specifically in the context of asset management. This book is intended for managers, engineers, researchers, and practitioners, directly or indirectly involved in the area of maintenance. The book is focused to contribute towards better understanding of maintenance cost and use of this knowledge to improve the maintenance process.

Key Features:

- Emphasis on maintenance cost and life cycle cost especially under uncertainty.
- Systematic approach of how cost models can be applied and used in the maintenance field.
- Compiles and reviews existing maintenance cost models.
- Consequential and direct costs considered.
- Comparison of maintenance costs in different sectors, infrastructure, manufacturing, transport.

Cognitive Internet of Things CRC Press

This book gathers selected papers from the KES-IDT 2022 Conference, held in Rhodes, Greece on June 20 – 22, 2022. The book presents and discusses the latest research results and generates new ideas in the field of intelligent decision-making. The range of topics discussed are classification, prediction, data analysis, big data, data science, decision support, knowledge engineering, and modeling in diverse areas such as finance, cybersecurity, economics, health, management, and transportation. The problems in Industry 4.0 and IoT are also addressed. The book contains several sections devoted to specific topics, such as intelligent data processing and its applications, high-dimensional data analysis and its applications, multi-criteria decision analysis—theory and applications, large-scale systems for intelligent decision-making and knowledge engineering, decision technologies and related topics in big data analysis of social and financial issues, and decision-making theory for economics.

Advances in Artificial and Human Intelligence in the Modern Era Ten Speed Press

The previous edition of the International Encyclopedia of Ergonomics and Human Factors made history as the first unified source of reliable information drawn from many realms of science and technology and created specifically with ergonomics professionals in mind. It was also a winner of the Best Reference Award 2002 from

the Engineering Libraries

Advanced Analytics in Mining Engineering CRC Press

The Dirac Effect By: Lowen Wuulph Nothing is as it seems in The Dirac Effect. The instant Diroldo "Diro" Mann and a seductive beauty known only as Harlowe make eye contact, they inexplicably fall deeply in love with one another. Yet, after they celebrate their love during a night of seismic erotic excess, Harlowe disappears. Bewildered, Diro sadly concludes that the amorous valence he thought bonded them together was perhaps nothing more for Harlowe than an epic one-night stand. Months later, plagued by a recurring cryptic text message, Diro becomes convinced it's from Harlowe. Decoding the message, he surmises she might be in danger and relying only on other similarly flimsy hunches, he launches a quixotic odyssey to find Harlowe. Something Diro calls "The Dirac Effect" drives almost every aspect of his quest, which is compounded by the erratic appearance of a ghostly vision that he believes he saw first on the night they met. When Diro learns that a very small number of Southern California residents also see this apparition, he wonders if the elusive Harlowe experiences it as well. As Diro's search for Harlowe deepens, other puzzling riddles emerge that connect to the perplexing apparition. Of course, the most important answers he seeks are who is the mysterious Harlowe, why did she disappear, and how can he find her? In pursuit of these answers, Diro encounters an enigmatic stranger who gives him an arcane artifact. What is that artifact's purpose? Has that stranger also intervened in Harlowe's life? Beyond these questions lie other mysteries that surreptitiously affect the destinies of Diro and Harlowe and enmesh both of them in a disturbing network of conspiracies intent on radically changing the entire fabric of human life.

The Link Springer Nature

This two-volume set of LNCS 13017 and 13018 constitutes the refereed proceedings of the 16th International Symposium on Visual Computing, ISVC 2021, which was held in October 2021. The symposium took place virtually instead due to the COVID-19 pandemic. The 48 papers presented in these volumes were carefully reviewed and selected from 135 submissions. The papers are organized into the following topical sections: Part I: deep learning; computer graphics; segmentation; visualization; applications; 3D vision; virtual reality; motion and tracking; object detection and recognition. Part II: ST: medical image analysis; pattern recognition; video analysis and event recognition; posters.

Digital Governance Springer Nature

In recent years, the application of intelligent transportation systems (ITS) has steadily expanded, and has become a hot spot of common interest to universities, scientific research institutes, enterprises and institutions in the transportation field. ITS is the product of the deep integration of modern high-tech in the transportation industry, and its development has accompanied that of modern high-tech. ITS is now also becoming part of the Internet of Things (IoT), and is expected to contribute significantly to making our cities smarter and connecting with other infrastructure. Although there are many monographs and textbooks on intelligent transportation, with the advancement of technology and changes in demand, the key technologies of ITS are also rapidly changing. This book chiefly focuses on the main technologies of ITS, examining them from four perspectives: "sense" (perception and management of traffic information, chapters 2 & 3), "transmission" (interaction of traffic information, chapter 4), "prediction" (prediction of traffic states, chapter 6) and "application" (intelligent transportation applications, chapters 6 through 10). Given its scope, the book can be used as a textbook for undergraduates or graduates, as well as a reference book for research institutes and enterprises. This book emphasizes the use of basis traffic engineering principles and state-of-art methodologies to develop functional designs. It largely reflects the authors' own experience in adapting these methodologies to ITS design.

For example, the book addresses various forms of data collection, models used to predict and evaluate traffic states, comprehensive description in connected vehicles, applications for users and traffic managers, etc. The knowledge gained here will allow designers to estimate the performance differences among alternatives and gauge their potential benefits for functional design purposes. To gain the most from the book, readers should be somewhat familiar with the field of traffic engineering and interested in ITS.

Texas Transportation Researcher Springer Nature

The previous edition of the International Encyclopedia of Ergonomics and Human Factors made history as the first unified source of reliable information drawn from many realms of science and technology and created specifically with ergonomics professionals in mind. It was also a winner of the Best Reference Award 2002 from the Engineering Libraries Division, American Society of Engineering Education, USA, and the Outstanding Academic Title 2002 from Choice Magazine. Not content to rest on his laurels, human factors and ergonomics expert Professor Waldemar Karwowski has overhauled his standard-setting resource, incorporating coverage of tried and true methods, fundamental principles, and major paradigm shifts in philosophy, thought, and design. Demonstrating the truly interdisciplinary nature of this field, these changes make the second edition even more comprehensive, more informative, more, in a word, encyclopedic. Keeping the format popularized by the first edition, the new edition has been completely revised and updated. Divided into 13 sections and organized alphabetically within each section, the entries provide a clear and simple outline of the topics as well as precise and practical information. The book reviews applications, tools, and innovative concepts related to ergonomic research.

Technical terms are defined (where possible) within entries as well as in a glossary.

Students and professionals will find this format invaluable, whether they have ergonomics, engineering, computing, or psychology backgrounds. Experts and researchers will also find it an excellent source of information on areas beyond the range of their direct interests.

Official Gazette of the United States Patent and Trademark Office Educohack Press

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

International Encyclopedia of Ergonomics and Human Factors, Second Edition - 3 Volume Set CRC Press

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 2021), are included in the book. The book focuses on the theory, design, analysis, implementation, and application of distributed systems and networks.

Intelligent Road Transport Systems Springer Nature

Digital Governance provides managers with a simple and jargon-free introduction to the impact that digital technology can have on the governance of their organisations.

Digital technology is at the heart of any enterprise today, changing business processes and the way we work. But this technology is often used inefficiently, riskily or inappropriately. Worse perhaps, many organisational leaders fail to grasp the opportunities it offers and thus fail to "transform" their organisations through the use of technology. This book provides an explanation of the basic issues around the opportunities and risks associated with digital technology. It describes the role that

digital technology can play across organisations (and not just behind the locked doors of the IT department), giving boards and top management the insight to develop strategies for investing in and exploiting digital technology as well as arming them with the knowledge required to ask the right questions of specialists and to detect when the answers given are evasive or irrelevant. International in its scope, this essential book covers the fundamental principles of digital governance such as leadership, capability, accountability for value creation and transparency of reporting, integrity and ethical behaviour.

Transportation Research in India SAE International

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it 's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

Popular Science IGI Global

The Internet of Things (IoT) concept is defined as a flexible and futuristic network where all the different types of devices and smart objects can become seamlessly connected to each other and can actively participate in all types of processes which are happening around us. The grand objective of making physical, mechanical, electrical, and electronic devices to use the deeper and extreme connectivity and service-enablement techniques is to make them intelligent in their deeds, decisions, and deals. Cognitive IoT is the application of cognitive computing technologies to the data which is generated by the connected devices of the IoT ecosystem. Cognition means thinking; however, computers are not yet fully capable of mimicking human like thought. However, the present-day computer systems can perform some functions which are like the capability of human beings to think. Cognitive Internet of Things: Enabling Technologies, Platforms, and Use Cases explains the concepts surrounding Cognitive IoT. It also looks at the use cases and such supporting technologies as artificial intelligence and machine learning that act as key enablers of Cognitive IoT ecosystem. Different Cognitive IoT enabled platforms like IBM Watson and other product specific use cases like Amazon Alexa are covered in depth. Other highlights of the book include: Demystifying the cognitive computing paradigm Delineating the key capabilities of cognitive cloud environments Deep learning algorithms for cognitive IoT solutions Natural language processing (NLP) methods for cognitive IoT systems Designing a secure infrastructure for cognitive IoT platforms and applications Wireless Technology, Intelligent Network Technologies, Smart Services and Applications Springer Nature

In the realm of psychological and brain sciences, there is a growing urgency to refine individual performance using personalized interventions that account for unique cognitive and biological attributes. Yet, the quest for such tailored approaches has proven challenging, as conventional methods often fall short. The limited integration of domain expertise and human judgment curtails the potential of artificial intelligence (AI) in effectively optimizing human performance, particularly in areas like customized training, health monitoring, and cognitive enhancement. Bridging the gap between AI capabilities and the specific requirements of

individuals becomes crucial in meeting this rising demand. Advances in Artificial and Human Intelligence in the Modern Era present a transformative solution to tackle the prevailing challenges at the intersection of AI and human performance enhancement. This book delves deeply into the latest empirical research, literature reviews, and methodological advancements to introduce precision AI techniques for personalized interventions. By examining how the amalgamation of domain expertise and human insights can enhance AI performance, the book establishes a comprehensive framework for modeling individual distinctions and devising effective, tailored AI approaches. Tailored for academic scholars and researchers in psychological and brain sciences, computer science, and related fields, this book provides a comprehensive exploration of pioneering advancements in the convergence of artificial and human intelligence. Its diverse chapters encompass a wide array of topics, including the identification of mental health concerns, integration of human intelligence into AI tools, enhancement of reliability, and exploration of data standards. As it fuses expertise from these two disciplines, the book paves the way for a new era of personalized interventions with the potential to revolutionize human cognitive enhancement, training, and overall well-being.

Advances in Visual Computing Springer Nature

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Mass Transit Springer Nature

The illustrations in this book are created by “ Team Educohack ” . AI Breakthroughs: Theories and Concepts for Today is designed to guide readers through the essential scientific and technological principles that make artificial intelligence (AI) possible. We aim to enhance understanding of AI's development and its pervasive role in our lives. We explore two fundamental questions: Should AI replicate human performance through machines, or should it emulate the way humans think and act? This book discusses "classical AI" and machine learning (ML), the two main approaches to AI. While classical AI, dating back to the 1960s, uses logic and representations to mimic human reasoning, ML, a newer method, focuses on manipulating numbers and statistical patterns to find answers. Drawing insights from Daniel Kahneman's Behavioral Economics, we demonstrate that purely rational AI, operating solely on logical symbols, does not reflect human thought processes. This book is crafted to support students, helping them grasp each concept in detail and ensuring they benefit from a thorough understanding of AI.