Encyclopedia Of Machine Learning

Getting numbers is easy; getting numbers you can trust is hard. This practical guide by experimentation leaders at Google, LinkedIn, and Microsoft will teach you how to accelerate innovation using trustworthy online controlled experiments, or A/B tests. Based on practical experiences at companies that each run more than 20,000 controlled experiments a year, the authors share examples, pitfalls, and advice for students and industry professionals getting started with experiments, plus deeper dives into advanced topics for practitioners who want to improve the way they make data-driven decisions. Learn how to • Use the scientific method to evaluate hypotheses using controlled experiments • Define key metrics and ideally an Overall Evaluation Criterion • Test for trustworthiness of the results and alert experimenters to violated assumptions • Build a scalable platform that lowers the marginal cost of experiments close to zero • Avoid pitfalls like carryover effects and Twyman's law • Understand how statistical issues play out in practice.

The design patterns in this book capture best practices and solutions to recurring problems in machine learning. The authors, three Google engineers, catalog proven methods to help data scientists tackle common problems throughout the ML process. These design patterns codify the experience of hundreds of experts into straightforward, approachable advice. In this book, you will find detailed explanations of 30 patterns for data and problem representation, operationalization, repeatability, reproducibility, flexibility, explainability, and fairness. Each pattern includes a description of the problem, a variety of potential solutions, and recommendations for choosing the best technique for your situation. You'll learn how to: Identify and mitigate common challenges when training, evaluating, and deploying ML models Represent data for different ML model types, including embeddings, feature crosses, and more Choose the right model type for specific problems Build a robust training loop that uses checkpoints, distribution strategy, and hyperparameter tuning Deploy scalable ML systems that you can retrain and update to reflect new data Interpret model predictions for stakeholders and ensure models are treating users fairly Written by 350 specialists in academia, industry and government and covering all fields encompassed by artificial intelligence, this encyclopaedia has been updated and expanded to include developments in the fields of neural networks, fuzzy logic, vision and languages. The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and

support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with

applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered

Encyclopedia of Data Science and Machine Learning Encyclopedia of data warehousing and mining Introduction to Machine Learning with R MACHINE LEARNING HANDBK - EVER Encyclopedia of Big Data Technologies

on the book's web site.

Machine learning is a relatively new field, without a unanimous definition. In many ways, actuaries have been machine learners. In both pricing and reserving, but also more recently in capital modelling, actuaries have combined statistical methodology with a deep understanding of the problem at hand and how any solution may affect the company and its customers. One aspect that has, perhaps, not been so well developed among actuaries is validation. Discussions among actuaries ' "preferred methods" were often without solid scientific arguments, including validation of the case at hand. Through this collection, we aim to promote a good practice of machine learning in insurance, considering the following three key issues: a) who is the client, or sponsor, or otherwise interested real-life target of the study? b) The reason for working with a particular data set and a clarification of the available extra knowledge, that we also call prior knowledge, besides the data set alone. c) A mathematical statistical argument for the validation procedure.

Over the past century, educational psychologists and researchers have posited many theories to explain how individuals learn, i.e. how they acquire, organize and deploy knowledge and skills. The 20th century can be considered the century of psychology on learning and related fields of interest (such as motivation, cognition, metacognition etc.) and it is fascinating to see the various mainstreams of learning, remembered and forgotten over the 20th century and note that basic assumptions of early theories survived several paradigm shifts of psychology and epistemology. Beyond folk psychology and its na ï ve theories of learning, psychological learning theories can be

grouped into some basic categories, such as behaviorist learning theories, connectionist learning theories, cognitive learning theories, constructivist learning theories, and social learning theories. Learning theories are not limited to psychology and related fields of interest but rather we can find the topic of learning in various disciplines, such as philosophy and epistemology, education, information science, biology, and – as a result of the emergence of computer technologies – especially also in the field of computer sciences and artificial intelligence. As a consequence, machine learning struck a chord in the 1980s and became an important field of the learning sciences in general. As the learning sciences became more specialized and complex, the various fields of interest were widely spread and separated from each other; as a consequence, even presently, there is no comprehensive overview of the sciences of learning or the central theoretical concepts and vocabulary on which researchers rely. The Encyclopedia of the Sciences of Learning provides an up-to-date, broad and authoritative coverage of the specific terms mostly used in the sciences of learning and its related fields, including relevant areas of instruction, pedagogy, cognitive sciences, and especially machine learning and knowledge engineering. This modern compendium will be an indispensable source of information for scientists, educators, engineers, and technical staff active in all fields of learning. More specifically, the Encyclopedia provides fast access to the most relevant theoretical terms provides up-to-date, broad and authoritative coverage of the most important theories within the various fields of the learning sciences and adjacent sciences and communication technologies; supplies clear and precise explanations of the theoretical terms, cross-references to related entries and up-to-date references to important research and publications. The Encyclopedia also contains biographical entries of individuals who have substantially contri

Covering all the main approaches in state-of-the-art machine learning research, this will set a new standard as an introductory textbook.

The Elgar Encyclopedia of Law and Data Science represents a comprehensive mapping of the field. Comprising over 60 entries, it features contributions from eminent global scholars, drawing on expertise from multiple disciplines, including law and data science, economics, computer engineering, physics, biomedical engineering and history, philosophy, neuro-engineering, political science, and geo-informatics. This Encyclopedia brings together jurists, computer scientists, and data analysts to uncover the challenges, opportunities, and fault lines that arise as these groups are increasingly thrown together by expanding attempts to regulate and adapt to a data-driven world. It explains the concepts and tools at the crossroads of the many disciplines involved in data science and law, bridging scientific and applied domains. Entries span algorithmic fairness, consent, data protection, ethics, healthcare, machine learning, patents, surveillance, transparency and vulnerability. Comprehensive yet accessible, this Encyclopedia will be an indispensable resource for scholars of law, data science, artificial intelligence and law and technology. It also contains practical implications for a manifold of users: from domain experts to policy makers, from businesses to practitioners. Key Features: P> The first Encyclopedic coverage of the field of Law and Data Science Over 60 entries Entries organized alphabetically for ease of reference Full analytical index Interrelated multidisciplinary perspectives Unique accessibility for non-experts.

Machine Learning in Image Analysis and Pattern Recognition A Practical Guide to A/B Testing

The Art and Science of Algorithms that Make Sense of Data

Encyclopedia of Data Science and Machine Learning, VOL 1

Encyclopedia of Data Science and Machine Learning, VOL 3

A hands-on approach to tasks and techniques in data stream mining and real-time analytics, with examples in MOA, a popular freely available open-source software framework. Today many information sources—including sensor networks, financial markets, social networks, and healthcare monitoring—are so-called data streams, arriving sequentially and at high speed. Analysis must take place in real time, with partial data and without the capacity to store the entire data set. This book presents algorithms and techniques used in data stream mining and real-time analytics. Taking a hands-on approach, the book demonstrates the techniques using MOA (Massive Online Analysis), a popular, freely available open-source software framework, allowing readers to try out the techniques after reading the explanations. The book first offers a brief introduction to the topic, covering big data mining, basic methodologies for mining data streams, and a simple example of MOA. More detailed discussions follow, with chapters on sketching techniques, change, classification, ensemble methods, regression, clustering, and frequent pattern mining. Most of these chapters include exercises, an MOA-based lab session, or both. Finally, the book discusses the MOA software, covering the MOA graphical user interface, the command line, use of its API, and the development of new methods within MOA. The book will be an essential reference for readers who want to use data stream mining as a tool, researchers in innovation or data stream mining, and programmers who want to create new algorithms for MOA.

This book is to chart the progress in applying machine learning, including deep learning, to a broad range of image analysis and pattern recognition problems and applications. In this book, we have assembled original research articles making unique contributions to the theory, methodology and applications of machine learning in image analysis and pattern recognition.

This authoritative reference work will provide readers with a complete overview of artificial intelligence (AI), including its historic development and current status; existing and projected AI applications; and present and potential future impact on the United States and the world. Some people believe that artificial intelligence (AI) will revolutionize modern life in ways that improve human existence. Others say that the promise of AI is overblown. Still others contend that AI applications could pose a grave threat to the economic security of millions of people by taking their jobs and otherwise rendering them "obsolete"—or, even worse, that AI could actually spell the end of the human race. This volume will help users understand the reasons AI development has both spirited defenders and alarmed critics; explain theories and innovations like Moore's Law, mindcloning, and Technological Singularity that drive AI research and debate; and give readers the information they need to make their own informed judgment about the promise and peril of this technology. All of this coverage is presented using language and terminology accessible to a lay audience. Introduction explaining the historical evolution of AI Chronology of important AI-related events Authoritative entries on leading pioneers, entrepreneurs, and thinkers; AI concepts and theories; AI's potential impact on different facets of society; and major movies and other cultural touchstones exploring AI technology

This encyclopedia will be an essential resource for our times, reflecting the fact that we currently are living in an expanding data-driven world. Technological advancements and other related trends are contributing to the production of an astoundingly large and exponentially increasing collection of data and information, referred to in popular vernacular as "Big Data." Social media and crowdsourcing platforms and various applications

"apps" are producing reams of information from the instantaneous transactions and input of millions and millions of people around the globe. The Internet-of-Things (IoT), which is expected to comprise tens of billions of objects by the end of this decade, is actively sensing real-time intelligence on nearly every aspect of our lives and environment. The Global Positioning System (GPS) and other location-aware technologies are producing data that specific down to particular latitude and longitude coordinates and seconds of the day. Large-scale instruments, such as the Large Hadron Collider (LHC), are collecting massive amounts of data on our planet and even distant corners of the visible universe. Digitization is being used to convert large collections of documents from print to digital format, giving rise to large archives of unstructured data. Innovations in technology, in the areas of Cloud and molecular computing, Artificial Intelligence/ Machine Learning, and Natural Language Processing (NLP), to name only a few, also are greatly expanding our capacity to store, manage, and process Big Data. In this context, the Encyclopedia of Big Data is being offered in recognition of a world that is rapidly moving from gigabytes to terabytes to petabytes and beyond. While indeed large data sets have long been around and in use in a variety of fields, the era of Big Data in which we now live departs from the past in a number of key respects and with this departure comes a fresh set of challenges and opportunities that cut across and affect multiple sectors and disciplines, and the public at large. With expanded analytical capacities at hand, Big Data is now being used for scientific inquiry and experimentation in nearly every (if not all) disciplines, from the social sciences to the humanities to the natural sciences, and more. Moreover, the use of Big Data has been well established beyond the Ivory Tower. In today 's economy, businesses simply cannot be competitive without engaging Big Data in one way or another in supp

Encyclopedia of Artificial Intelligence

Encyclopedia of Computational Neuroscience

Encyclopedia of Distributed Learning

Encyclopedia of Criminal Activities and the Deep Web

Encyclopedia of Business Analytics and Optimization

"This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

Machine learning is an intimidating subject until you know the fundamentals. If you understand basic coding concepts, this introductory guide will help you gain a solid foundation in machine learning principles. Using the R programming language, you 'Il first start to learn with regression modelling and then move into more advanced topics such as neural networks and tree-based methods. Finally, you 'Il delve into the frontier of machine learning, using the caret package in R. Once you develop a familiarity with topics such as the difference between regression and classification models, you 'Il be able to solve an array of machine learning problems. Author Scott V. Burger provides several examples to help you build a working knowledge of machine learning. Explore machine learning models, algorithms, and data training Understand machine learning algorithms for supervised and unsupervised cases Examine statistical concepts for designing data for use in models Dive into linear regression models used in business and science Use single-layer and multilayer neural networks for calculating outcomes Look at how tree-based models work, including popular decision trees Get a comprehensive view of the machine learning ecosystem in R Explore the powerhouse of tools available in R 's caret package

"This book examines current, state-of-the-art research in the areas of data science, machine learning, data mining, optimization, artificial intelligence, statistics, and the interactions, linkages, and applications of knowledge-based business with information systems"--

"The Encyclopedia of Library and Information Science provides an outstanding resource in 33 published volumes with 2 helpful indexes. This thorough reference set---written by 1300 eminent, international experts---offers librarians, information/computer scientists, bibliographers, documentalists, systems analysts, and students, convenient access to the techniques and tools of both library and information science. Impeccably researched, cross referenced, alphabetized by subject, and generously illustrated, the Encyclopedia of Library and Information Science integrates the essential theoretical and practical information accumulating in this rapidly growing field. The self-contained Supplements (each Supplement contains A-Z coverage) highlight new trends, describe the latest advances, and profile key people making critical contributions to the field. Recent individual Supplements considered topics such as Archival Science to User Needs Concept-Based Indexing and Retrieval of Hypermedia Information to Using Self-Checkout Technology to Increase Productivity and Patron Service in the Library Artificial Intelligence and Machine Learning Approach to Fraud Investigation to Visual Search in Modern Human-Computer Interfaces Supplement Volumes 36-61 are available; additional supplements in preparation."

Over 600 Activities Written by Teachers for Teachers

Encyclopedia of Data Science and Machine Learning, VOL 5

with Practical Examples in MOA

Encyclopedia of the Sciences of Learning

Mathematics for Machine Learning

As society continues to rely heavily on technological tools for facilitating business, e-commerce, banking, and communication, among other applications, there has been a significant rise in criminals seeking to exploit these tools for their nefarious gain. Countries all over the world are seeing substantial increases in identity theft and cyberattacks, as well as illicit transactions, including drug trafficking and human trafficking, being made through the dark web internet. Sex offenders and murderers explore unconventional methods of finding and contacting their victims through Facebook, Instagram, popular dating sites, etc., while pedophiles rely on these channels to obtain information and photographs of children, which are shared on hidden community sites. As criminals continue to harness technological advancements

that are outpacing legal and ethical standards, law enforcement and government officials are faced with the challenge of devising new and alternative strategies to identify and apprehend criminals to preserve the safety of society. The Encyclopedia of Criminal Activities and the Deep Web is a three-volume set that includes comprehensive articles covering multidisciplinary research and expert insights provided by hundreds of leading researchers from 30 countries including the United States, the United Kingdom, Australia, New Zealand, Germany, Finland, South Korea, Malaysia, and more. This comprehensive encyclopedia provides the most diverse findings and new methodologies for monitoring and regulating the use of online tools as well as hidden areas of the internet, including the deep and dark web. Highlighting a wide range of topics such as cyberbullying, online hate speech, and hacktivism, this book will offer strategies for the prediction and prevention of online criminal activity and examine methods for safeguarding internet users and their data from being tracked or stalked. Due to the techniques and extensive knowledge discussed in this publication it is an invaluable addition for academic and corporate libraries as well as a critical resource for policy makers, law enforcement officials, forensic scientists, criminologists, victim advocates, cybersecurity analysts, lawmakers, government officials, industry professionals, academicians, researchers, and students within this field of study.

Data Warehousing and Mining (DWM) is the science of managing and analyzing large datasets and discovering novel patterns and in recent years has emerged as a particularly exciting and industrially relevant area of research. Prodigious amounts of data are now being generated in domains as diverse as market research, functional genomics and pharmaceuticals; intelligently analyzing these data, with the aim of answering crucial questions and helping make informed decisions, is the challenge that lies ahead. The Encyclopedia of Data Warehousing and Mining provides a comprehensive, critical and descriptive examination of concepts, issues, trends, and challenges in this rapidly expanding field of data warehousing and mining (DWM). This encyclopedia consists of more than 350 contributors from 32 countries, 1,800 terms and definitions, and more than 4,400 references. This authoritative publication offers in-depth coverage of evolutions, theories, methodologies, functionalities, and applications of DWM in such interdisciplinary industries as healthcare informatics, artificial intelligence, financial modeling, and applied statistics, making it a single source of knowledge and latest discoveries in the field of DWM. If the sewing machine does it, then the technique is here! Anyone looking for advice on those indispensable basics will find a variety of ways to do bias binding, buttonholes, edge finishes, gathering, hem finishes, mitering corners, seam finishes, topstitching, and zippers. Or sewers can learn how to make any item eye-catching with an array of creative touches, including appliqu, crisscross chain stitching, eyelet embroidery, and lacework. Every technique comes complete with machine setups and guidance on fabrics, stitching, needles, threads, tension, and the presser foot.

Artificial Intelligence and Machine Learning for Predictive and Analytical Rendering in Edge Computing focuses on the role of AI and machine learning as it impacts and works alongside Edge Computing. Sections cover the growing number of devices and applications in diversified domains of industry, including gaming, speech recognition, medical diagnostics, robotics and computer vision and how they are being driven by Big Data, Artificial Intelligence, Machine Learning and distributed computing, may it be Cloud Computing or the evolving Fog and Edge Computing paradigms. Challenges covered include remote storage and computing, bandwidth overload due to transportation of data from End nodes to Cloud leading in latency issues, security issues in transporting sensitive medical and financial information across larger gaps in points of data generation and computing, as well as design features of Edge nodes to store and run Al/ML algorithms for effective rendering. Provides a reference handbook on the evolution of distributed systems, including Cloud, Fog and Edge Computing Integrates the various Artificial Intelligence and Machine Learning techniques for effective predictions at Edge rather than Cloud or remote Data Centers Provides insight into the features and constraints in Edge Computing and storage, including hardware constraints and the technological/architectural developments that shall overcome those constraints

Elgar Encyclopedia of Law and Data Science Encyclopedia of Sewing Machine Techniques Machine Learning for Data Streams Volume II

Rigorous Mathematical Analysis

This book is your ultimate Machine Learning resource. Here you will find the most up-to-date information, facts, quotes and much more. In easy to read chapters, with extensive references and links to get you to know all there is to know about Machine Learning's whole picture right away. Get countless Machine Learning facts right at your fingertips with this essential resource. The Machine Learning Handbook is the single and largest Machine Learning reference book. This compendium of information is the authoritative source for all your entertainment, reference, and learning needs. It will be your go-to source for any Machine Learning questions. A mind-tickling encyclopedia on Machine Learning, a treat in its entirety and an oasis of learning about what you don't yet know...but are glad you found. The Machine Learning Handbook will answer all of your needs, and much more.

"This 10-volume compilation of authoritative, research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"--Provided by publisher.

In today's fast-paced world, with multiple demands on time and resources as well as pressures for career advancement and productivity, self-directed learning is an increasingly popular and practical alternative in continuing education. The Encyclopedia of Distributed Learning defines and applies the best practices of contemporary continuing education designed for adults in corporate settings, Open University settings, graduate coursework, and in similar learning environments. Written for a wide audience in the distance and continuing education field, the Encyclopedia is a valuable resource for deans and administrators at universities and colleges, reference librarians in academic and public institutions, HR officials involved with continuing education/training programs in corporate settings, and those involved in the academic disciplines of Education, Psychology, Information Technology, and Library Science. Sponsored by The Fielding Graduate Institute, this extensive reference work is edited by long-time institute members, bringing with them the philosophy and authoritative background of this premier institution. The Fielding Graduate Institute is well known for offering mid-career professionals opportunities for self-directed, mentored study with the flexibility of time and location that enables students to maintain commitments to family, work, and community. The Encyclopedia of Distributed Learning includes over 275 entries, each written by a specialist in that area, giving the reader comprehensive coverage of all aspects of distributed learning, including use of group processes, self-assessment, the life line experience, and developing a learning contract. Topics Covered Administrative Processes Policy, Finance and Governance Social and Cultural Perspectives Student and Faculty Issues Teaching and Learning Processes and Technologies Technical Tools and Supports Key Features A-to-Z organization plus Reader's Guide groups entries by broad topic areas Over 275 entries, each written by a specialist in that area

cross-references between entries add to the encyclopedia's ease of use Annotated listings for additional resources, including distance learning programs, print and non-print resources, and conferences

"This book is a comprehensive and in-depth reference to the most recent developments in the field covering theoretical developments, techniques, technologies, among others"--Provided by publisher.

Volume 65 - Supplement 28: Behavioral ImPatts of Consultative Systems: A Structural Model for User Reliance on Sysytem Advice to User Query Performance with Database Feedback Artificial Intelligence and Machine Learning for EDGE Computing

Encyclopedia of Data Warehousing and Mining

Encyclopedia of Artificial Intelligence: The Past, Present, and Future of Al

Machine Learning Design Patterns

Supplement 20: Artificial Intelligence and Machine Learning Approaches to Fraud Investigations to Visual Search in Modern Human-Computer Interfaces

This comprehensive encyclopedia, in A-Z format, provides easy access to relevant information for those seeking entry into any aspect within the broad field of Machine Learning. Most of the entries in this preeminent work include useful literature references.

Big data and machine learning are driving the Fourth Industrial Revolution. With the age of big data upon us, we risk drowning in a flood of digital data. Big data has now become a critical part of both the business world and daily life, as the synthesis and synergy of machine learning and big data has enormous potential. Big data and machine learning are projected to not only maximize citizen wealth, but also promote societal health. As big data continues to evolve and the demand for professionals in the field increases, access to the most current information about the concepts, issues, trends, and technologies in this interdisciplinary area is needed. The Encyclopedia of Data Science and Machine Learning examines current, state-of-the-art research in the areas of data science, machine learning, data mining, and more. It provides an international forum for experts within these fields to advance the knowledge and practice in all facets of big data and machine learning, emphasizing emerging theories, principals, models, processes, and applications to inspire and circulate innovative findings into research, business, and communities. Covering topics such as benefit management, recommendation system analysis, and global software development, this expansive reference provides a dynamic resource for data scientists, data analysts, computer scientists, technical managers, corporate executives, students and educators of higher education, government officials, researchers, and academicians.

This book contains hundreds of accessible, teacher-written learning center activities. The GIANT Encyclopedia of Learning Center Activities is the eighth book in Gryphon House's GIANT Encyclopedia series. The learning centers in this book can either be permanent year-long centers or set up and removed according to the season or children's interests and needs. Through play, young children learn to communicate, interact, and expand their cognitive thinking horizons. The GIANT Encyclopedia of Learning Center Activities provides the resources to make play meaningful and educational for young children. This book offers: Over 600 activities and 47 learning centers, including familiar, permanent centers, such as Art or Blocks, and new and exciting centers, such as Farm, Space, Safari, Shoe Store, and Ice Cream Shop. Opportunities in each center for children to work at their own developmental level. Materials lists for each activity, step-by-step instructions, and related books, songs, and poems. Fresh new ideas from teachers who have used these activities in their own classrooms!

Trustworthy Online Controlled Experiments

Encyclopedia of Machine Learning

Encyclopedia of Information Science and Technology

The Giant Encyclopedia of Learning Center Activities

Machine Learning

This authoritative, expanded and updated second edition of Encyclopedia of Machine Learning and Data Mining provides easy access to core information for those seeking entry into any aspect within the broad field of Machine Learning and Data Mining. A paramount work, its 800 entries - about 150 of them newly updated or added - are filled with valuable literature references, providing the reader with a portal to more detailed information on any given topic. Topics for the Encyclopedia of Machine Learning and Data Mining include Learning and Logic, Data Mining, Applications, Text Mining, Statistical Learning, Reinforcement Learning, Pattern Mining, Graph Mining, Relational Mining, Evolutionary Computation, Information Theory, Behavior Cloning, and many others. Topics were selected by a distinguished international advisory board. Each peer-reviewed, highly-structured entry includes a definition, key words, an illustration, applications, a bibliography, and links to related literature. The entries are expository and tutorial, making this reference a practical resource for students, academics, or professionals who employ machine learning and data mining methods in their projects. Machine learning and data mining techniques have countless applications, including data science applications, and this reference is essential for anyone seeking quick access to vital information on the topic.

As the age of Big Data emerges, it becomes necessary to take the five dimensions of Big Data-volume, variety, velocity, volatility, and veracity- and focus these dimensions towards one critical emphasis - value. The Encyclopedia of Business Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management, data visualization, interdisciplinary communication, and others. Through its critical approach and practical application, this book will be a must-have reference for any professional, leader, analyst, or manager interested in making the most of the knowledge resources at their disposal.

The Encyclopedia of Big Data Technologies provides researchers, educators, students and industry professionals with a comprehensive authority over the most relevant Big Data Technology concepts. With over 300 articles written by worldwide subject matter experts from both industry and academia, the encyclopedia covers topics such as big data storage systems, NoSQL

database, cloud computing, distributed systems, data processing, data management, machine learning and social technologies, data science. Each peer-reviewed, highly structured entry provides the reader with basic terminology, subject overviews, key research results, application examples, future directions, cross references and a bibliography. The entries are expository and tutorial, making this reference a practical resource for students, academics, or professionals. In addition, the distinguished, international editorial board of the encyclopedia consists of well-respected scholars, each developing topics based upon their expertise.

Encyclopedia of Library and Information Science

Encyclopedia of Information Science and Technology, Third Edition

Volume 57 - Supplement 20: Artificial Intelligence and Machine Learning Approaches to Fraud Investigations to Visual Search in Modern Human-Computer Interfaces

Machine Learning in Insurance

Encyclopedia of Big Data