Applied Artificial Intelligence A Handbook For Bus

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Research Handbook on Big Data Law Roland Vogl 2021-05-28 This state-of-the-art Research Handbook provides an overview of research into, and the scope of current thinking in, the field of big data analytics and the law. It contains a wealth of information to survey the issues surrounding big data analytics in legal settings, as well as legal issues concerning the application of big data techniques in different domains.

New Frontiers in Artificial Intelligence Takashi Washio 2007-05-18 This book constitutes the thoroughly refereed joint post-proceedings of three international workshops organized by the Japanese Society for Artificial Intelligence, held in Tokyo, Japan in June 2006 during the 20th Annual Conference JSAI 2006. The volume starts with eight award winning papers of the JSAI 2006 main conference that are presented along with the 21 revised full workshop papers, carefully reviewed and selected for inclusion in the volume.

Applied Big Data Analytics in Operations Management Kumar, Manish 2016-09-30 Operations management is a tool by which companies can effectively meet customers' needs using the least amount of resources necessary. With the emergence of sensors and smart metering, big data is becoming an intrinsic part of modern operations management. Applied Big Data Analytics in Operations Management enumerates the challenges and creative solutions and tools to apply when using big data in operations management. Outlining revolutionary concepts and applications that help businesses predict customer behavior along with applications of artificial neural networks, predictive analytics, and opinion mining on business management, this comprehensive publication is ideal for IT professionals, software engineers, business professionals, managers, and students of management.

Emotional Artificial Intelligence and Metaverse Roger Lee 2022-12-09 This edited book presents scientific results of the 1st ACIS International Symposium on Emotional Artificial Intelligence & Metaverse (EAIM) which was held on August 4-6, 2022, in Danang, Vietnam. The aim of this symposium was to bring together researchers and scientists, businessmen and entrepreneurs, teachers, engineers, computer users, and students to discuss the numerous fields of computer science and to share their experiences and exchange new ideas and information in a meaningful way. All aspects (theory, applications, and tools) of emotional artificial intelligence and metaverse, the practical challenges encountered along the way, and the solutions adopted to solve them are all explored here in the results of the articles featured in this book. The symposium organizers selected the best papers from those papers accepted for presentation at the symposium. The papers were chosen based on review scores submitted by members of the program committee and underwent further rigorous rounds of review. From this second round of review, 15 of the symposium's most promising papers are then published in this Springer (SCI) book and not the symposium proceedings. We impatiently await the important contributions that we know these authors will bring to the field of emotional artificial intelligence and metaverse.

Handbook of Research on Industrial Informatics and Manufacturing Intelligence: Innovations and Solutions Khan, Mohammad Ayoub 2012-03-31 "This book is the best source for the most current, relevant, cutting edge research in the field of industrial informatics focusing on different methodologies of information technologies to enhance industrial fabrication, intelligence, and manufacturing processes"--Provided by publisher.

Handbook on Knowledge Management 2 Clyde Holsapple 2013-04-17 This second volume consists of the sections: technologies for knowledge management, outcomes of KM, knowledge management in action, and the KM horizon.

Methods and Tools for Applied Artificial Intelligence Popovic 1994-05-02 This work provides a comprehensive and coherent introduction to the expanding field of Artificial Intelligence (AI), explaining how knowledge-based systems are built, what tools and technologies are relevant and available, and how to employ them in specific situations. It pays special attention to the commercial intelligence systems that emerged in the '80s, as well as projecting the likely developments of the '90s.

The SAGE Handbook of Responsible Management Learning and Education Dirk C. Moosmayer 2020-08-04 Reflecting the rapid rise in popularity of recent initiatives such as the UN Principles for Responsible Management Education (PRME), this handbook exhaustively covers a variety of responsible management, learning and education topics, and provides an invaluable roadmap for this fast-developing field. Covering various perspectives on the topic, right through to contexts, methods, outcomes and beyond, this volume will be an invaluable integrative resource for practitioners and researchers alike, and is designed to serve a range of communities that deal with topics related to sustainability, responsibility and ethics in management learning and education.

Handbook of Modeling High-Frequency Data in Finance Frederi G. Viens 2011-11-16 CUTTING-EDGE DEVELOPMENTS IN HIGH-FREQUENCY FINANCIAL ECONOMETRICS In recent years, the availability of high-frequency data and advances in computing have allowed financial practitioners to design systems that can handle and analyze this information. Handbook of Modeling High-Frequency Data in Finance addresses the many theoretical and practical questions raised by the nature and intrinsic properties of this data. A one-stop compilation of empirical and analytical research, this handbook explores data sampled with high-frequency finance in financial engineering, statistics, and the modern financial business arena. Every chapter uses real-world examples to present new, original, and relevant topics that relate to newly evolving discoveries in high-frequency finance, such as: Designing new methodology to discover elasticity and plasticity of price evolution Constructing microstructure simulation models Calculation of option prices in the presence of jumps and transaction costs Using boosting for financial analysis and trading The handbook motivates practitioners to apply high-frequency finance to real-world situations by including exclusive topics such as risk measurement and management, UHF data, microstructure, dynamic multi-period optimization, mortgage data models, hybrid Monte Carlo, retirement, trading systems and forecasting, pricing, and boosting. The diverse topics and viewpoints presented in each chapter ensure that readers are supplied with a wide treatment of practical methods. Handbook of Modeling High-Frequency Data in Finance is an essential reference for academics and practitioners in finance, business, and econometrics who work with high-frequency data in their everyday work. It also serves as a supplement for risk management and high-frequency finance courses at the upper-undergraduate and graduate levels.

Handbook of Research Methods and Applications in Empirical Microeconomics Hashimzade, Nigar 2021-11-18 Written in a comprehensive yet accessible style, this Handbook introduces readers to a range of modern empirical methods with applications in microeconomics, illustrating how to use two of the most popular software packages, Stata and R, in microeconometric applications.

Artificial Intelligence Harvard Business Review 2019 Companies that don't use AI to their advantage will soon be left behind. Artificial intelligence and machine learning will drive a massive reshaping of the economy and society. What should you and your company be doing right now to ensure that your business is poised for success? These articles by AI experts and consultants will help you understand today's essential thinking on what AI is capable of now, how to adopt it in your organization, and how the technology is likely to evolve in the near future. Artificial Intelligence: The Insights You Need from Harvard Business Review will help you spearhead important conversations, get going on the right AI initiatives for your company, and capitalize on the opportunity of the machine intelligence revolution. Catch up on current topics and deepen your understanding of them with the Insights You Need series from Harvard Business Review. Featuring some of HBR's best and most recent thinking, Insights You Need titles are both a primer on today's most pressing issues and an extension of the conversation, with interesting research, interviews, case studies, and practical ideas to help you explore how a particular issue will impact your company and what it will mean for you and your business.

Handbook of Child Psychology, Child Psychology in Practice William Damon 2007-07-30 Part of the

authoritative four-volume reference that spans the entire field of child development and has set the standard against which all other scholarly references are compared. Updated and revised to reflect the new developments in the field, the Handbook of Child Psychology, Sixth Edition contains new chapters on such topics as spirituality, social understanding, and non-verbal communication. Volume 4: Child Psychology in Practice, edited by K. Ann Renninger, Swarthmore College, and Irving E. Sigel, Educational Testing Service, covers child psychology in clinical and educational practice. New topics addressed include educational assessment and evaluation, character education, learning disabilities, mental retardation, media and popular culture, children's health and parenting.

New Trends in Applied Artificial Intelligence Hiroshi G. Okuno 2007-07-18 This book constitutes the refereed proceedings of the 20th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems, IEA/AIE 2007, held in Kyoto, Japan. Coverage includes text processing, fuzzy system applications, real-world interaction, data mining, machine learning chance discovery and social networks, e-commerce, heuristic search application systems, and other applications.

Research Handbook on the Law of Artificial Intelligence Woodrow Barfield 2018-12-28 The field of artificial intelligence (AI) has made tremendous advances in the last two decades, but as smart as AI is now, it is getting smarter and becoming more autonomous. This raises a host of challenges to current legal doctrine, including whether AI/algorithms should count as 'speech', whether AI should be regulated under antitrust and criminal law statutes, and whether AI should be considered as an agent under agency law or be held responsible for injuries under tort law. This book contains chapters from US and international law scholars on the role of law in an age of increasingly smart AI, addressing these and other issues that are critical to the evolution of the field.

Multiple Perspectives in Risk and Risk Management Philip Linsley 2019-04-16 This proceedings book presents a multidisciplinary perspective on risk and risk management. Featuring selected papers presented at the European Risk Research Network (ERRN) 8th European Risk Conference "Multiple Perspectives in Risk and Risk Management" held in Katowice, Poland, it explores topics such as risk management systems, risk behaviors, risk culture, big data and risk reporting and regulation. The contributors adopt a wide variety of theoretical approaches and either qualitative or quantitative methodologies. Contemporary companies operate in a highly dynamic environment, accompanied by the constant development of the information technology, making decision-making processes highly complex and increasing the risk related to company performance. The European Risk Research Network (ERRN) was established in 2006 with the aim of stimulating cross-disciplinary research in the area of risk management. The network includes academics and industry experts from the fields of accounting, auditing, financial economics and mathematical finance. To keep the network lively and fruitful, regular "European Risk Conferences" are organized to present papers from a broad spectrum of risk and risk management areas. Featuring contributions for Italy, South Africa, Germany and Poland, this proceedings book is a valuable reference resource for students, academics, and practitioners in risk and risk management

Machine Learning and Knowledge Discovery in Databases. Applied Data Science and Demo Track Yuxiao Dong 2021-02-24 The 5-volume proceedings, LNAI 12457 until 12461 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases, ECML PKDD 2020, which was held during September 14-18, 2020. The conference was planned to take place in Ghent, Belgium, but had to change to an online format due to the COVID-19 pandemic. The 232 full papers and 10 demo papers presented in this volume were carefully reviewed and selected for inclusion in the proceedings. The volumes are organized in topical sections as follows: Part I: Pattern Mining; clustering; privacy and fairness; (social) network analysis and computational social science; dimensionality reduction and autoencoders; domain adaptation; sketching, sampling, and binary projections; graphical models and causality; (spatio-) temporal data and recurrent neural networks; collaborative filtering and matrix completion. Part II: deep learning optimization and theory; active learning; adversarial learning; federated learning; Kernel methods and online learning; partial label learning; reinforcement learning; transfer and multi-task learning; Bayesian optimization and few-shot learning. Part III: Combinatorial optimization; large-scale optimization and differential privacy; boosting and ensemble methods; Bayesian methods; architecture of neural networks; graph neural networks; Gaussian processes; computer vision and image processing; natural language processing; bioinformatics. Part IV: applied data science: recommendation; applied data science: anomaly detection; applied data science: Web mining; applied data science: transportation; applied data science: activity recognition; applied data science: hardware and manufacturing; applied data science: spatiotemporal data. Part V: applied data science: social good; applied data science: healthcare; applied data

science: e-commerce and finance; applied data science: computational social science; applied data science: sports; demo track.

Handbook of Research on Applied Data Science and Artificial Intelligence in Business and Industry Chkoniya, Valentina 2021-06-25 The contemporary world lives on the data produced at an unprecedented speed through social networks and the internet of things (IoT). Data has been called the new global currency, and its rise is transforming entire industries, providing a wealth of opportunities. Applied data science research is necessary to derive useful information from big data for the effective and efficient utilization to solve real-world problems. A broad analytical set allied with strong business logic is fundamental in today's corporations. Organizations work to obtain competitive advantage by analyzing the data produced within and outside their organizational limits to support their decision-making processes. This book aims to provide an overview of the concepts, tools, and techniques behind the fields of data science and artificial intelligence (AI) applied to business and industries. The Handbook of Research on Applied Data Science and Artificial Intelligence in Business and Industry discusses all stages of data science to AI and their application to real problems across industries—from science and engineering to academia and commerce. This book brings together practice and science to build successful data solutions, showing how to uncover hidden patterns and leverage them to improve all aspects of business performance by making sense of data from both web and offline environments. Covering topics including applied AI, consumer behavior analytics, and machine learning, this text is essential for data scientists, IT specialists, managers, executives, software and computer engineers, researchers, practitioners, academicians, and students.

Handbook of Big Geospatial Data Martin Werner 2021-05-07 This handbook covers a wide range of topics related to the collection, processing, analysis, and use of geospatial data in their various forms. This handbook provides an overview of how spatial computing technologies for big data can be organized and implemented to solve real-world problems. Diverse subdomains ranging from indoor mapping and navigation over trajectory computing to earth observation from space, are also present in this handbook. It combines fundamental contributions focusing on spatio-textual analysis, uncertain databases, and spatial statistics with application examples such as road network detection or colocation detection using GPUs. In summary, this handbook gives an essential introduction and overview of the rich field of spatial information science and big geospatial data. It introduces three different perspectives, which together define the field of big geospatial data: a societal, governmental, and governance perspective. It discusses questions of how the acquisition, distribution and exploitation of big geospatial data must be organized both on the scale of companies and countries. A second perspective is a theory-oriented set of contributions on arbitrary spatial data with contributions introducing into the exciting field of spatial statistics or into uncertain databases. A third perspective is taking a very practical perspective to big geospatial data, ranging from chapters that describe how big geospatial data infrastructures can be implemented and how specific applications can be implemented on top of big geospatial data. This would include for example, research in historic map data, road network extraction, damage estimation from remote sensing imagery, or the analysis of spatio-textual collections and social media. This multi-disciplinary approach makes the book unique. This handbook can be used as a reference for undergraduate students, graduate students and researchers focused on big geospatial data. Professionals can use this book, as well as practitioners facing big collections of geospatial data.

The Cambridge Handbook of Artificial Intelligence Keith Frankish 2014-06-12 An authoritative, up-to-date survey of the state of the art in artificial intelligence, written for non-specialists.

The Measurement, Instrumentation and Sensors Handbook John G. Webster 1998-12-29 This product is a concise and useful reference for industrial engineers, scientists, designers, managers, research personnel and students. It covers an extensive range of topics that encompass the subject of measurement, instrumentation, and sensors. The Measurement Instrumentation and Sensors Handbook on CD-ROM provides easy access to the instrumentation and techniques for practical measurements required in engineering, physics, chemistry, and the life sciences.

Information Granularity, Big Data, and Computational Intelligence Witold Pedrycz 2014-07-14 The recent pursuits emerging in the realm of big data processing, interpretation, collection and organization have emerged in numerous sectors including business, industry and government organizations. Data sets such as customer transactions for a mega-retailer, weather monitoring, intelligence gathering, quickly outpace the capacities of traditional techniques and tools of data analysis. The 3V (volume, variability and velocity) challenges led to

the emergence of new techniques and tools in data visualization, acquisition, and serialization. Soft Computing being regarded as a plethora of technologies of fuzzy sets (or Granular Computing), neurocomputing and evolutionary optimization brings forward a number of unique features that might be instrumental to the development of concepts and algorithms to deal with big data. This carefully edited volume provides the reader with an updated, in-depth material on the emerging principles, conceptual underpinnings, algorithms and practice of Computational Intelligence in the realization of concepts and implementation of big data architectures, analysis, and interpretation as well as data analytics. The book is aimed at a broad audience of researchers and practitioners including those active in various disciplines in which big data, their analysis and optimization are of genuine relevance. One focal point is the systematic exposure of the concepts, design methodology, and detailed algorithms. In general, the volume adheres to the top-down strategy starting with the concepts and motivation and then proceeding with the detailed design that materializes in specific algorithms and representative applications. The material is self-contained and provides the reader with all necessary prerequisites and augments some parts with a step-by-step explanation of more advanced concepts supported by a significant amount of illustrative numeric material and some application scenarios to motivate the reader and make some abstract concepts more tangible.

HCI International 2022 – Late Breaking Papers: Interacting with eXtended Reality and Artificial Intelligence Jessie Y. C. Chen 2022-12-26 This proceedings LNCS 13518 constitutes the refereed proceedings of the 24th International Conference on Human-Computer Interaction, HCII 2022, which was held virtually as part of the 24th International Conference, HCII 2022, in June/July 2022. HCII 2022 received a total of 5583 submissions from academia, research institutes, industry, and governmental agencies from 88 countries submitted contributions, and 1276 papers and 275 posters were included in the proceedings that were published just before the start of the conference. Additionally, 296 papers and 181 posters are included in the volumes of the proceedings published after the conference, as "Late Breaking Work" (papers and posters). The contributions thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas.

Artificial Intelligence CBSE Class 10 Book (For 2023 Exam) Rajiv Sodhi and Poonam Sodhi 2022-04-14

Handbook on Decision Making Julian Andres Zapata-Cortes 2022-10-28 This book presents different techniques and methodologies used to improve the intelligent decision-making process and increase the likelihood of success in companies of different sectors such as Financial Services, Education, Supply Chain, Energy Systems, Health Services, and others. The book contains and consolidates innovative and high-quality research contributions regarding the implementation of techniques and methodologies applied in different sectors. The scope is to disseminate current trends knowledge in the implementation of artificial intelligence techniques and methodologies in different fields such as: Logistics, Software Development, Big Data, Internet of Things, Simulation, among others. The book contents are useful for Ph.D. researchers, Ph.D. students, master and undergraduate students of different areas such as Industrial Engineering, Computer Science, Information Systems, Data Analytics, and others.

Advances in Artificial Intelligence Howard J. Hamilton 2003-06-26 This book constitutes the refereed proceedings of the 13th Biennial Conference of the Canadian Society for Computational Studies of Intelligence, AI 2000, held in Montreal, Quebec, Canada, in May 2000. The 25 revised full papers presented together with 12 10-page posters were carefully reviewed and selected from more than 70 submissions. The papers are organized in topical sections on games and constraint satisfaction; natural language processing; knowledge representation; AI applications; machine learning and data mining; planning, theorem proving, and artificial life; and neural networks.

ICS Applied Artificial Intelligence Reporter 1985

Handbook of Research on Acquiring 21st Century Literacy Skills Through Game-Based Learning Lane, Carol-Ann 2022-01-07 Emerging technologies are becoming more prevalent in global classrooms. Traditional literacy pedagogies are shifting toward game-based pedagogy, addressing 21st century learners. Therefore, within this context there remains a need to study strategies to engage learners in meaning-making with some element of virtual design. Technology supports the universal design learning framework because it can increase the access to meaningful engagement in learning and reduce barriers. The Handbook of Research on Acquiring 21st Century Literacy Skills Through Game-Based Learning provides theoretical frameworks and empirical research findings in

digital technology and multimodal ways of acquiring literacy skills in the 21st century. This book gains a better understanding of how technology can support leaner frameworks and highlights research on discovering new pedagogical boundaries by focusing on ways that the youth learn from digital sources such as video games. Covering topics such as elementary literacy learning, indigenous games, and student-worker training, this book is an essential resource for educators in K-12 and higher education, school administrators, academicians, pre-service teachers, game developers, researchers, and libraries.

Handbook on Artificial Intelligence-Empowered Applied Software Engineering Maria Virvou 2022-10-17 Evolving technological advancements in big data, smartphone and mobile software applications, the Internet of Things and a vast range of application areas in all sorts of human activities and professions, lead current research toward the efficient incorporation of artificial intelligence enhancements into software and the empowerment of software with artificial intelligence. The book at hand, devoted to Smart Software Applications in Cyber-Physical Systems, constitutes the second volume of a two-volume Handbook on Artificial Intelligence-empowered Applied Software Engineering. Topics include very significant advances in Smart Software Applications in (i) Scientific Document Processing, (ii) Enterprise Modeling, (iii) Education, (iv) Health care and Medicine, and (v) Infrastructure Monitoring. Professors, researchers, scientists, engineers, and students in artificial intelligence, software engineering, and computer science-related disciplines are expected to benefit from it, along with interested readers from other disciplines.

Handbook of Research on Applied Artificial Intelligence and Robotics for Government Processes Valle-Cruz, David 2022-09-16 Artificial intelligence (AI) and robotics have boomed in the 21st century. These emerging and disruptive technologies are immersed in our lives, from apps in mobile devices, the purchases we make on the internet streaming platforms, and even court decisions and predictive policing. Together with science and certain needs, relevant implementations of AI and robotics arise, related to its transparency, resulting in biases, the kinds of applications that can be implemented, and the degree of workforce replacement in decision-making assistance. It is essential to analyze the widely used AI techniques, the application of these technologies in different sectors, the implications of AI and robotics on society and welfare, and more. The Handbook of Research on Applied Artificial Intelligence and Robotics for Government Processes presents state-of-the-art research on AI and robotics in different fields of knowledge, its benefits, applications, and implications. It features chapters containing theoretical and practical research that analyzes the transparency and expandability of AI in different fields, as well as the analysis of unexpected results, biases, and cases of discrimination. Covering topics such as criminal intelligence, artificial intelligence-based chatbots, and gender violence, this major reference work is an excellent resource for government officials, practitioners in the public sector, business administrators and managers, IT professionals, law enforcement, federal agencies, students and faculty of higher education, researchers, and academicians.

Applied mechanics reviews 1948

Applications and Innovations in Intelligent Systems VIII Ann Macintosh 2012-12-06 Ann Macintosh Napier University, UK The papers in this volume are the refereed application papers presented at ES2000, the Twentieth SGES International Conference on Knowledge Based Systems and Applied Artificial Intelligence, held in Cambridge in December 2000. The scope of the Application papers has expanded over recent years to cover not just innovative applications using traditional knowledge based systems, but also to include applications demonstrating the whole range of AI technologies. This volume contains thirteen refereed papers describing deployed applications or emerging applications, together with an invited keynote paper by Dr. Daniel Clancy of NASA Ames Research Centre. The papers were subject to refereeing by at least two "expert" referees. All papers which were controversial for some reason were discussed in depth by the Application Programme Committee. For the application stream, a paper is acceptable even if it describes a system which has not yet been installed, provided the application is original and the paper discusses the kinds of things that would help others needing to solve a similar problem. Papers have been selected to highlight critical areas of success (and failure) and to present the benefits and lessons learnt to other developers. Papers this year cover topics as diverse as: KBS for maintaining offshore platforms; Data Mining to predict corporate business failure; integrated AI techniques to support field service engineers; Natural Language applied to the Data Protection Act; knowledge management and the application of neural networks.

Communications Technology Handbook Geoff Lewis 2013-04-03 This is the first point of reference for the

communications industries. It offers an introduction to a wide range of topics and concepts encountered in the field of communications technology. Whether you are looking for a simple explanation, or need to go into a subject in more depth, the Communications Technology Handbook provides all the information you need in one single volume. This second edition has been updated to include the latest technology including: Video on Demand Wire-less Distribution systems High speed data transmission over telephone lines Smart cards and batteries Global positioning Systems The contents are ordered initially by communications systems. This is followed by an introduction to each topic and goes on to provide more detailed information in alphabetical order. Every section contains an explanation of common terminology, and further references are provided. This approach offers flexible access to information for a variety of readers. Those who know little about communications professionals, the book constitutes a handy reference source and a way of finding out about related technologies. The book addresses an international audience by referring to all systems and standards throughout. This book has been revised to include new sections on: * Video on demand * Wire-less distribution systems * High speed data transmission over telephone lines * Smart cards * Global positioning systems * provides a basic understanding of a wide range of topics * offers a flexible approach for beginners and specialists alike * addresses an international audience by referring to all systems and standards throughout

Handbook of Energy Economics and Policy Alessandro Rubino 2021-05-01 Handbook of Energy Economics and Policy: Fundamentals and Applications for Engineers and Energy Planners presents energy engineers and managers with analytical skills and concepts that enable them to apply simple economic logic to understand the interrelations between energy technologies, economics, regulation and governance of the industry. Sections cover the origins, types and measurement of energy sources, transportation networks, and regulatory and policy issues on electricity and gas at a global level, new economic and policy issues, including innovation processes in the energy industry and economic and policy implications. Final sections cover state-of-the-art methods for modeling and predicting the dynamics of energy systems. Its unique approach and learning path makes this book an ideal resource for energy engineering practitioners and researchers working to design, develop, plan or deploy energy systems. Energy planners and policymakers will also find this to be a solid foundation on which to base decisions. Presents key-concepts and their interrelation with energy technologies and systems in a clear way for ready application during planning and deployment of energy technologies and systems Includes global case studies covering a wide array of energy sources and regulatory models Explores methodologies for modeling and forecasting the impacts of energy technologies and systems, as well as their costs and possible business models

Digital Economy, Business Analytics, and Big Data Analytics Applications Saad G. Yaseen 2022-10-28 This book is about turning data into smart decisions, knowledge into wisdom and business into business intelligence and insight. It explores diverse paradigms, methodologies, models, tools and techniques of the emerging knowledge domain of digitalized business analytics applications. The book covers almost every crucial aspect of applied artificial intelligence in business, smart mobile and digital services in business administration, marketing, accounting, logistics, finance and IT management. This book aids researchers, practitioners and decisions makers to gain enough knowledge and insight on how to effectively leverage data into competitive intelligence.

Handbook of Research on Artificial Intelligence Techniques and Algorithms Vasant, Pandian 2014-11-30 For decades, optimization methods such as Fuzzy Logic, Artificial Neural Networks, Firefly, Simulated annealing, and Tabu search, have been capable of handling and tackling a wide range of real-world application problems in society and nature. Analysts have turned to these problem-solving techniques in the event during natural disasters and chaotic systems research. The Handbook of Research on Artificial Intelligence Techniques and Algorithms highlights the cutting edge developments in this promising research area. This premier reference work applies Meta-heuristics Optimization (MO) Techniques to real world problems in a variety of fields including business, logistics, computer science, engineering, and government. This work is particularly relevant to researchers, scientists, decision-makers, managers, and practitioners.

Artificial Intelligence and Applied Mathematics in Engineering Problems D. Jude Hemanth 2020-01-03 This book features research presented at the 1st International Conference on Artificial Intelligence and Applied Mathematics in Engineering, held on 20–22 April 2019 at Antalya, Manavgat (Turkey). In today's world, various engineering areas are essential components of technological innovations and effective real-world solutions for a better future. In this context, the book focuses on problems in engineering and discusses research using artificial intelligence and applied mathematics. Intended for scientists, experts, M.Sc. and Ph.D. students, postdocs and anyone

interested in the subjects covered, the book can also be used as a reference resource for courses related to artificial intelligence and applied mathematics.

Handbook of Research on New Solutions and Technologies in Electrical Distribution Networks Khan, Baseem 2019-12-06 As the electrical industry continues to develop, one sector that still faces a range of concerns is the electrical distribution system. Excessive industrialization and inadequate billing are just a few issues that have plagued this electrical sector as it advances into the smart grid environment. Research is necessary to explore the possible solutions in fixing these problems and developing the distribution sector into an active and smart system. The Handbook of Research on New Solutions and Technologies in Electrical Distribution Networks is a collection of innovative research on the methods and applications of solving major issues within the electrical distribution system. Some issues covered within the publication include distribution losses, improper monitoring of system, renewable energy integration with micro-grid and distributed energy sources, and smart home energy management system modelling. This book is ideally designed for power engineers, electrical engineers, energy professionals, developers, technologists, policymakers, researchers, academicians, industry professionals, and students seeking current research on improving this key sector of the electrical industry.

Handbook of Research on Decision Sciences and Applications in the Transportation Sector Hassan, Said Ali 2021-06-25 The advancements in decision sciences theory and applications can be regarded as a continuously emerging field in all areas of interest including technology, industry, energy, healthcare, education, agriculture, social sciences, and more. Managers in all disciplines face an endless list of complex issues every day. One of the essential managerial skills is the ability to allocate and utilize limited resources appropriately in the efforts of achieving optimal performance efficiently. This is no less important for those who work in the transportation sector. The Handbook of Research on Decision Sciences and Applications in the Transportation Sector explores the importance of decision sciences and the ways in which they apply to the transportation sector. This book covers technologies and tools including machine learning, mathematical modeling, and simulation and their applications in such tasks as reducing fuel costs, improving passenger flow, and ensuring vehicle safety. It is an essential reference source for managers, professionals in the transport industry, supply chain specialists, safety officers, IT consultants, executives, practitioners, scientists, students, researchers, and academicians.

Handbook of Research on Advancements of Swarm Intelligence Algorithms for Solving Real-World Problems Cheng, Shi 2020-04-24 The use of optimization algorithms has seen an emergence in various professional fields due to its ability to process data and information in an efficient and productive manner. Combining computational intelligence with these algorithms has created a trending subject of research on how much more beneficial intelligent-inspired algorithms can be within companies and organizations. As modern theories and applications are continually being developed in this area, professionals are in need of current research on how intelligent algorithms are advancing in the real world. TheHandbook of Research on Advancements of Swarm Intelligence Algorithms for Solving Real-World Problems is a pivotal reference source that provides vital research on the development of swarm intelligence algorithms and their implementation into current issues. While highlighting topics such as multi-agent systems, bio-inspired computing, and evolutionary programming, this publication explores various concepts and theories of swarm intelligence and outlines future directions of development. This book is ideally designed for IT specialists, researchers, academicians, engineers, developers, practitioners, and students seeking current research on the real-world applications of intelligent algorithms.

Artificial Intelligence Rajiv Chopra 2012 For the students of B.E./B.Tech Computer Science Engineering and Information Technology (CSE/IT)