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Artificial Intelligence for Big Data

Complete guide to automating Big Data solutions using Artificial Intelligence techniques

Packt Publishing Ltd Build next-generation Artificial Intelligence systems with Java Key Features Implement AI techniques to build smart applications using Deeplearning4j Perform big data analytics to derive quality insights using Spark MLlib Create self-learning systems using neural networks, NLP, and reinforcement learning Book Description In this age of big data, companies have larger amount of consumer data than ever before, far more than what the current technologies can ever hope to keep up with. However, Artificial Intelligence closes the gap by moving past human limitations in order to analyze data. With the help of Artificial Intelligence for big data, you will learn to use Machine Learning algorithms such as k-means, SVM, RBF, and regression to perform advanced data analysis. You will understand the current status of Machine and Deep Learning techniques to work on Genetic and Neuro-Fuzzy algorithms. In addition, you will explore how to develop Artificial Intelligence algorithms to learn from data, why they are necessary, and how they can help solve real-world problems. By the end of this book, you'll have learned how to implement various Artificial Intelligence algorithms for your big data systems and integrate them into your product offerings such as reinforcement learning, natural language processing, image recognition, genetic algorithms, and fuzzy logic systems. What you will learn Manage Artificial Intelligence techniques for big data with Java Build smart systems to analyze data for enhanced customer experience Learn to use Artificial Intelligence frameworks for big data Understand complex problems with algorithms and Neuro-Fuzzy systems Design stratagems to leverage data using Machine Learning process Apply Deep Learning techniques to prepare data for modeling Construct models that learn from data using open source tools Analyze big data problems using scalable Machine Learning algorithms Who this book is for This book is for you if you are a data scientist, big data professional, or novice who has basic knowledge of big data and wish to get proficiency in Artificial Intelligence techniques for big data. Some competence in mathematics is an added advantage in the field of elementary linear algebra and calculus.

Business Intelligence Solutions A Complete Guide - 2020 Edition

5starcooks Who is responsible for ensuring appropriate resources (time, people and money) are allocated to business intelligence solutions? Are missed business intelligence solutions opportunities costing your organization money? Will new equipment/products be required to facilitate business intelligence solutions delivery, for example is new software needed? Is the required business intelligence solutions data gathered? What are the main full web business intelligence solutions? This best-selling Business Intelligence Solutions self-assessment will make you the established Business Intelligence Solutions domain veteran by revealing just what you need to know to be fluent and ready for any Business Intelligence Solutions challenge. How do I reduce the effort in the Business Intelligence Solutions work to be done to get problems solved? How can I ensure that plans of action include every Business Intelligence Solutions task and that every Business Intelligence Solutions outcome is in place? How will I save time investigating strategic and tactical options and ensuring Business Intelligence Solutions costs are low? How can I deliver tailored Business Intelligence Solutions advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Business Intelligence Solutions essentials are covered, from every angle: the Business Intelligence Solutions self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Business Intelligence Solutions outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Business Intelligence Solutions practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Business Intelligence Solutions are maximized with professional results. Your purchase includes access details to the Business Intelligence Solutions self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Business Intelligence Solutions Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

Business Intelligence

Solution for Business Development

The work addresses to specialists in informatics, with preoccupations in development of Business Intelligence systems, and also to beneficiaries of such systems, constituting an important scientific contribution. Experts in the field contribute with new ideas and concepts regarding the development of Business Intelligence applications and their adoption in organizations. This book presents both an overview of Business Intelligence and an in-depth analysis of current applications and future directions for this technology. The book covers a large area, including methods, concepts, and case studies related to: constructing an enterprise business intelligence maturity model, developing an agile architecture framework that leverages the strengths of business intelligence, decision management and service orientation, adding semantics to Business Intelligence, towards business intelligence over unified structured and unstructured data using XML, density-based clustering and anomaly detection, data mining based on neural networks.

Oracle Data Warehousing and Business Intelligence Solutions

John Wiley & Sons Up-to-date, comprehensive coverage of the Oracle database and business intelligence tools Written by a team of Oracle insiders, this authoritative book provides you with the most current coverage of the Oracle data warehousing platform as well as the full suite of business intelligence tools. You'll learn how to leverage Oracle features and how those features can be used to provide solutions to a variety of needs and demands. Plus, you'll get valuable tips and insight based on the authors' real-world experiences and their own implementations. Avoid many common pitfalls while learning best practices for: Leveraging Oracle technologies to design, build, and manage data warehouses Integrating specific database and business intelligence solutions from other vendors Using the new suite of Oracle business intelligence tools to analyze data for marketing, sales, and more Handling typical data warehouse performance challenges Uncovering initiatives by your business community, security business sponsorship, project staffing, and managing risk

Business Intelligence

Solution for Business Development

BoD – Books on Demand The work addresses to specialists in informatics, with preoccupations in development of Business Intelligence systems, and also to beneficiaries of such systems, constituting an important scientific contribution. Experts in the field contribute with new ideas and concepts regarding the development of Business Intelligence applications and their adoption in organizations. This book presents both an overview of Business Intelligence and an in-depth analysis of current applications and future directions for this technology. The book covers a large area, including methods, concepts, and case studies related to: constructing an enterprise business intelligence maturity model, developing an agile architecture framework that leverages the strengths of business intelligence, decision management and service orientation, adding semantics to Business Intelligence, towards business intelligence over unified structured and unstructured data using XML, density-based clustering and anomaly detection, data mining based on neural networks.

Recent Trends in Applied Artificial Intelligence

26th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2013, Amsterdam, The Netherlands, June 17-21,

2013, Proceedings

Springer *This volume constitutes the thoroughly refereed conference proceedings of the 26th International Conference on Industrial Engineering and Other Applications of Applied Intelligence Systems, IEA/AIE 2013, held in Amsterdam, The Netherlands, in June 2013. The total of 71 papers selected for the proceedings were carefully reviewed and selected from 185 submissions. The papers focus on the following topics: auctions and negotiation, cognitive modeling, crowd behavior modeling, distributed systems and networks, evolutionary algorithms, knowledge representation and reasoning, pattern recognition, planning, problem solving, robotics, text mining, advances in recommender systems, business process intelligence, decision support for safety-related systems, innovations in intelligent computation and applications, intelligent image and signal processing, and machine learning methods applied to manufacturing processes and production systems.*

Advanced Intelligent Computing Theories and Applications. With Aspects of Artificial Intelligence

Fourth International Conference on Intelligent Computing, ICIC 2008 Shanghai, China, September 15-18, 2008, Proceedings

Springer *The International Conference on Intelligent Computing (ICIC) was formed to p- vide an annual forum dedicated to the emerging and challenging topics in artificial intelligence, machine learning, bioinformatics, and computational biology, etc. It aims to bring together researchers and practitioners from both academia and ind- try to share ideas, problems and solutions related to the multifaceted aspects of intelligent computing. ICIC 2008, held in Shanghai, China, September 15–18, 2008, constituted the 4th International Conference on Intelligent Computing. It built upon the success of ICIC 2007, ICIC 2006 and ICIC 2005 held in Qingdao, Kunming and Hefei, China, 2007, 2006 and 2005, respectively. This year, the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing. Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. Therefore, the theme for this conference was "Emerging Intelligent Computing Technology and Applications". Papers focusing on this theme were solicited, addressing theories, methodologies, and applications in science and technology.*

MICAI 2000: Advances in Artificial Intelligence

Mexican International Conference on Artificial Intelligence Acapulco, Mexico, April 11-14, 2000 Proceedings

Springer *Fifty years ago, A. Turing predicted that by 2000 we would have a machine that could pass the Turing test. Although this may not yet be true, AI has advanced signi?cantly in these 50 years, and at the dawn of the XXI century is still an activeandchallenging?eld.Thisyearisalsosigni?cantforAIinMexico,withthe merging of the two major AI conferences into the biennial Mexican International Conference on Arti?cial Intelligence (MICAI) series. MICAI is the union of the Mexican National AI Conference (RNIA) and the International AI Symposium (ISAI), organized annually by the Mexican Society forAI(SMIA,since1984)andbytheMonterreyInstituteofTechnology(ITESM, since1988),respectively.The?rstMexicanInternationalConferenceonArti?cial Intelligence, MICAI 2000, took place April 11-14, 2000, in the city of Acapulco, Mexico.ThisconferenceseekstopromoteresearchinAI,andcooperationamong Mexican researchers and their peers worldwide. We welcome you all. Over 163 papers from 17 di?erent countries were submitted for consideration to MICAI 2000. After reviewing them thoroughly, MICAI's program committee, referees, and program chair accepted 60 papers for the international track. This volume contains the written version of the papers and invited talks presented at MICAI. We would like to acknowledge the support of the American Association for Arti?cial Intelligence (AAAI), and the International Joint Conference on Art- cial Intelligence (IJCAI). We are specially grateful for the warm hospitality and generosity o?ered by the Acapulco Institute of Technology.*

Advances and Trends in Artificial Intelligence. From Theory to Practice

34th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2021, Kuala Lumpur, Malaysia, July 26-29, 2021, Proceedings, Part II

Springer Nature *This two-volume set of LNAI 12798 and 12799 constitutes the thoroughly refereed proceedings of the 34th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2021, held virtually and in Kuala Lumpur, Malaysia, in July 2021. The 87 full papers and 19 short papers presented were carefully reviewed and selected from 145 submissions. The IEA/AIE 2021 conference will continue the tradition of emphasizing on applications of applied intelligent systems to solve real-life problems in all areas. These areas include the following: Part I, Artificial Intelligence Practices: Knowledge discovery and pattern mining; artificial intelligence and machine learning; sematic, topology, and ontology models; medical and health-related applications; graphic and social network analysis; signal and bioinformatics processing; evolutionary computation; attack security; natural language and text processing; fuzzy inference and theory; and sensor and communication networks Part II, From Theory to Practice: Prediction and recommendation; data management, clustering and classification; robotics; knowledge based and decision support systems; multimedia applications; innovative applications of intelligent systems; CPS and industrial applications; defect, anomaly and intrusion detection; financial and supply chain applications; Bayesian networks; BigData and time series processing; and information retrieval and relation extraction.*

Advances in Artificial Intelligence: From Theory to Practice

30th International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2017, Arras, France, June 27-30, 2017, Proceedings, Part I

Springer *The two-volume set LNCS 10350 and 10351 constitutes the thoroughly refereed proceedings of the 30th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2017, held in Arras, France, in June 2017. The 70 revised full papers presented together with 45 short papers and 3 invited talks were carefully reviewed and selected from 180 submissions. They are organized in topical sections: constraints, planning, and optimization; data mining and machine learning; sensors, signal processing, and data fusion; recommender systems; decision support systems; knowledge representation and reasoning; navigation, control, and autonome agents; sentiment analysis and social media; games, computer vision; and animation; uncertainty management; graphical models: from theory to applications; anomaly detection; agronomy and artificial intelligence; applications of argumentation; intelligent systems in healthcare and mhealth for health outcomes; and innovative applications of textual analysis based on AI.*

Total Journalism

Models, Techniques and Challenges

Springer Nature *This book aims to explore the diverse landscape of journalism in the third decade of the twenty-first century, constantly changing and still dealing with the consequences of a global pandemic. "Total journalism" is the concept that refers to the renewed and current journalism that employs all available techniques, technologies, and platforms. Authors discuss the innovative nature of journalism, the influence of big data and information disorders, models, professionals and audiences, as well as the challenges of artificial intelligence. The book gives an up-to-date overview of these perspectives on journalistic production and distribution. The effects of misinformation and the challenge of artificial intelligence are of specific relevance in this book. Readers can enjoy with contributions from prestigious experts and researchers who make this book an interesting resource for media professionals and researchers in media and communication studies.*

Black Ops

The Life of a CIA Shadow Warrior

St. Martin's Press *The Explosive National Bestseller A memoir by the highest-ranking covert warrior to lift the veil of secrecy and offer a glimpse into the shadow wars that America has fought since the Vietnam Era. Enrique Prado found himself in his first firefight at age seven. The son of a middle-class Cuban family caught in the midst of the Castro Revolution, his family fled their war-torn home for the hope of a better life in America. Fifty years later, the Cuban refugee retired from the Central Intelligence Agency as the CIA equivalent of a two-star general. Black Ops is the story of Ric's legendary career that spanned two eras, the Cold War and the Age of Terrorism. Operating in the shadows, Ric and his fellow CIA officers fought a little-seen and virtually unknown war to keep USA safe from those who would do it harm. After duty stations in Central, South America, and the Philippines, Black Ops follows Ric into the highest echelons of the CIA's headquarters at Langley, Virginia. In late 1995, he became Deputy Chief of Station and co-founding member of the Bin Laden Task Force. Three years later, after serving as head of Korean Operations, Ric took on one of the most dangerous missions of his career: to re-establish a once-abandoned CIA station inside a hostile nation long since considered a front line of the fight against Islamic terrorism. He and his team carried out covert operations and developed assets that proved pivotal in the coming War on Terror. A harrowing memoir of life in the shadowy world of assassins, terrorists, spies and revolutionaries, Black Ops is a testament to the courage, creativity and dedication of the Agency's Special Activities Group and its elite shadow warriors.*

The New Era of Enterprise Business Intelligence

Using Analytics to Achieve a Global Competitive Advantage

IBM Press *A complete blueprint for creating winning business intelligence strategies and infrastructure, and maximizing the value of information * *Practical techniques for planning strategy, and exceptional real-world guidance on BI evaluation. *Fully reflects radical shifts in the BI marketplace, including new platform suites (e.g., Cognos, SAP/BOBJ) and appliances (e.g., Neteeza), which add complexity to decisionmaking and planning. *Contains realistic solutions to the BI pitfalls enterprises encounter most often. Enterprises recognize the immense potential of business intelligence, but it's not easy to transform BI's potential into real business value. In Enterprise Business Intelligence , top IBM BI expert Mike Biere presents realistic start-to finish guidance and practical checklists for every planner, strategist, and implementer. Drawing on thousands of hours working with enterprise customers, Biere addresses both strategy and infrastructure, helping decisionmakers choose amongst today's unprecedented spectrum of options -- including the latest BI suites and appliances. Coverage includes: * *Understanding the evolving scope of potential BI solutions. *Assessing new options such as SaaS and cloud-based technologies. *Creating successful Proofs of Concept. *Setting realistic expectations. *Avoiding 'project killing' pitfalls in enterprise BI implementation. *Setting up competency centers and planning for skills development. *Establishing the right staffing roles throughout the enterprise. *Selecting the right tools for development and other tasks. *Working with advanced analytics, text analytics, data mining, dashboards, scoreboards, and KPIs Effective BI has never been more crucial to the success of the enterprise. Its importance means that it now requires scrutiny at higher levels of the organization than ever before. This book will give senior decision-makers and their teams the insights they need to make the best decisions - and get best results*

Business Intelligence

The Savvy Manager's Guide

Newnes *Following the footsteps of the first edition, the second edition of Business Intelligence is a full overview of what comprises business intelligence. It is intended to provide an introduction to the concepts to uncomplicate the learning process when implementing a business intelligence program. Over a relatively long lifetime (7 years), the current edition of book has received numerous accolades from across the industry for its straightforward introduction to both business and technical aspects of business intelligence. As an author, David Loshin has a distinct ability to translate challenging topics into a framework that is easily digestible by managers, business analysts, and technologists alike. In addition, his material has developed a following (such as the recent Master Data Management book) among practitioners and key figures in the industry (both analysts and vendors) and that magnifies our ability to convey the value of this book. Guides managers through developing, administering, or simply understanding business intelligence technology Keeps pace with the changes in best practices, tools, methods and processes used to transform an organization's data into actionable knowledge Contains a handy, quick-reference to technologies and terminology.*

Pakistan's Inter-Services Intelligence Directorate

Covert Action and Internal Operations

Routledge *This book is the first comprehensive study of Pakistan's Inter-Services Intelligence Directorate (ISI). The rise of Pakistan-backed religious extremist groups in Afghanistan, India, and Central Asia has focused international attention on Pakistan's premier intelligence organization and covert action advocate, the Inter-Services Intelligence Directorate or ISI. While ISI is regarded as one of the most powerful government agencies in Pakistan today, surprisingly little has been written about it from an academic perspective. This book addresses critical gaps in our understanding of this agency, including its domestic security mission, covert backing of the Afghan Taliban, and its links to al-Qa'ida. Using primary source materials, including declassified intelligence and diplomatic reporting, press reports and memoirs, this book explores how ISI was transformed from a small, negligible counter intelligence outfit of the late-1940s into the national security behemoth of today with extensive responsibilities in domestic security, political interference and covert action. This study concludes that reforming or even eliminating ISI will be fundamental if Pakistan is to successfully transition from an army-run, national security state to a stable, democratic society that enjoys peaceful relations with its neighbours. This book will be of interest to students of intelligence studies, South Asian politics, foreign policy and international security in general.*

Next-Generation Applied Intelligence

22nd International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2009, Tainan, Taiwan, June 24-27, 2009. Proceedings

Springer *The International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems (IEA/AIE), always sponsored by the International So- ety of Applied Intelligence (ISAI), emphasizes applications of applied intelligent systems to solve real-life problems in all areas. It is held every year and has become one of the biggest and most important academic activities concerning the theory and applications of intelligent systems in the world. The IEA/AIE 2009 conference was hosted by the National University of Tainan and National University of Kaohsiung in Taiwan. This was the first time that the IEA/AIE conference was held in Taiwan. We received 286 papers from all parts of the world. Only 84 papers were selected for publication in this volume of LNAI proceedings. Each paper was reviewed by at least two anonymous referees to assure the high quality. We would like to express our sincere thanks to the Program Committee members and all the reviewers for their hard work, which helped us to select the highest quality papers for the conference. These papers highlight opportunities and challenges for the next generation of applied int- ligence and reveal technological innovations in real applications.*

New Trends in Applied Artificial Intelligence

20th International Conference on Industrial, Engineering, and Other Applications of Applied Intelligent Systems. IEA/AIE 2007, Kyoto, Japan, June 26-29, 2007, Proceedings

Springer *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.*

Current Approaches in Applied Artificial Intelligence

28th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2015, Seoul, South Korea, June 10-12, 2015,

Proceedings

Springer *This book constitutes the refereed conference proceedings of the 28th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2015, held in Seoul, South Korea, in June 2015. The 73 revised full papers presented were carefully reviewed and selected from 105 submissions. The papers cover a wide range of topics in applied artificial intelligence including reasoning, robotics, cognitive modeling, machine learning, pattern recognition, optimization, text mining, social network analysis, and evolutionary algorithms. They are organized in the following topical sections: theoretical AI, knowledge-based systems, optimization, Web and social networks, machine learning, classification, unsupervised learning, vision, image and text processing, and intelligent systems applications.*

Artificial Intelligence

The Insights You Need from Harvard Business Review

HBR Insights *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.*

Web Intelligence and Intelligent Agents

BoD – Books on Demand *This book presents a unique and diversified collection of research work ranging from controlling the activities in virtual world to optimization of productivity in games, from collaborative recommendations to populate an open computational environment with autonomous hypothetical reasoning, and from dynamic health portal to measuring information quality, correctness, and readability from the web.*

Global National Security and Intelligence Agencies Handbook Volume 1 Strategic Information and Important Contacts

Lulu.com *2011 Updated Reprint. Updated Annually. Global National Intelligence and Security Agencies Handbook*

Scandinavian Conference on Artificial Intelligence 89

Proceedings of the SCAI '89, Tampere, Finland, 13-15 June, 1989

IOS Press

Business Intelligence Competency Centers

A Team Approach to Maximizing Competitive Advantage

John Wiley & Sons *Transform data into action for competitive advantage "The knowledge assets of an organization are becoming increasingly important for competitive advantage, and therefore, the way in which knowledge is created, renewed, and communicated is critical. This book provides practical insights into how this may be achieved through the establishment of a Business Intelligence Competency Centre and is a valuable read for 'information professionals.'" --Bill Sturman, Information Architecture Project Manager The Open University, United Kingdom "BI is more than technology and projects. BI must live in the organization--as a BICC. This book helps to make BI tangible and understandable, bringing it to life." --Miriam Eisenmann, Project Manager (PMP) CSC Ploenzke AG, Germany "This book is a must-read for planning and implementing your BICC. It is a pragmatic guide that addresses a lot, if not all, of the questions you'll be asking yourself. Don't miss out on getting a head start from the people who thought this through from start to finish . . . Pray your competitors don't get hold of this book!" --Claudia Imhoff, President Intelligent Solutions, Inc., USA "Creating a BICC forces the organization to focus on the importance of centralizing the gathering, interpreting, and analyzing of information to create business insight." --Anne Ulyate, Group Manager Business Intelligence Mutual & Federal, South Africa "BI is a highly visible element in the 'business value' trend for IT investments. Initiatives, such as competency centers, should empower user organizations to drive even more value out of their BI investments." --Marianne Kolding, Director, European ServicesIDC, United Kingdom*

Artificial Intelligence in Intelligent Systems

Proceedings of 10th Computer Science On-line Conference 2021, Vol. 2

Springer Nature *This book constitutes the refereed proceedings of the artificial intelligence in intelligent systems section of the 10th Computer Science Online Conference 2021 (CSOC 2021), held online in April 2021. Artificial intelligence in intelligent systems topics are presented in this book. Modern hybrid and bio-inspired algorithms and their application are discussed in selected papers.*

Artificial Intelligence and Mobile Services – AIMS 2019

8th International Conference, Held as Part of the Services Conference Federation, SCF 2019, San Diego, CA, USA, June 25–30, 2019, Proceedings

Springer *This book constitutes the proceedings of the 8th International Conference on Artificial Intelligence and Mobile Services, AIMS 2019, held as part of SCF 2019, in San Diego, CA, USA, in June 2019. The 12 full papers and one short paper presented were carefully reviewed and selected from 29 submissions. The papers cover different aspects of mobile services from business management to computing systems, algorithms and applications. They promote technological technological innovations in research and development of mobile services, including, but not limited to, wireless and sensor networks, mobile and wearable computing, mobile enterprise and eCommerce, ubiquitous collaborative and social services, machine-to-machine and Internet-of-things, clouds, cyber-physical integration, and big data analytics for mobility-enabled services.*

Budget of the United States Government

Analytical perspectives

Artificial Intelligence and Algorithms in Intelligent Systems

Proceedings of 7th Computer Science On-line Conference 2018, Volume 2

Springer *This book presents the latest trends and approaches in artificial intelligence research and its application to intelligent systems. It discusses hybridization of algorithms, new trends in neural networks, optimisation algorithms and real-life issues related to the application of artificial methods. The book constitutes the second volume of the refereed proceedings of the Artificial Intelligence and Algorithms in Intelligent Systems of the 7th Computer Science On-line Conference 2018 (CSOC 2018), held online in April 2018.*

Intelligence of Things: Technologies and Applications

The First International Conference on Intelligence of Things (ICIot 2022), Hanoi, Vietnam, August 17–19, 2022, Proceedings

Springer Nature *This book constitutes the refereed proceedings of the First Conference on Intelligence of Things (ICIoT 2022), held in Hanoi, Vietnam, in August 2022. A total of 40 full papers in this book have been rigorously peer-reviewed and selected from over 100 submissions. The papers focused on the intelligence of things (AIoT) studies are organized in the following parts: theoretical intelligence analyses, intelligence services and applications, and intelligence service experiments. This book provides interested students and engineers with comprehensive and cutting-edge studies in the fields.*

Universal Artificial Intelligence

Sequential Decisions Based on Algorithmic Probability

Springer Science & Business Media *Personal motivation. The dream of creating artificial devices that reach or outperform human inteUigence is an old one. It is also one of the dreams of my youth, which have never left me. What makes this challenge so interesting? A solution would have enormous implications on our society, and there are reasons to believe that the AI problem can be solved in my expected lifetime. So, it's worth sticking to it for a lifetime, even if it takes 30 years or so to reap the benefits. The AI problem. The science of artificial intelligence (AI) may be defined as the construction of intelligent systems and their analysis. A natural definition of a system is anything that has an input and an output stream. Intelligence is more complicated. It can have many faces like creativity, solving prob lems, pattern recognition, classification, learning, induction, deduction, build ing analogies, optimization, surviving in an environment, language processing, and knowledge. A formal definition incorporating every aspect of intelligence, however, seems difficult. Most, if not all known facets of intelligence can be formulated as goal driven or, more precisely, as maximizing some utility func tion. It is, therefore, sufficient to study goal-driven AI; e. g. the (biological) goal of animals and humans is to survive and spread. The goal of AI systems should be to be useful to humans.*

The Serpent Strikes: The Inter Services Intelligence Directorate spreads its tentacles

Artificial Intelligence and Security

8th International Conference, ICAIS 2022, Qinghai, China, July 15–20, 2022, Proceedings, Part II

Springer Nature *This three-volume set LNCS 13338-13340 constitutes the thoroughly refereed proceedings of the 8th International Conference on Artificial Intelligence and Security, ICAIS 2022, which was held in Qinghai, China, in July 2022. The total of 166 papers included in the 3 volumes were carefully reviewed and selected from 1124 submissions. The papers present research, development, and applications in the fields of artificial intelligence and information security*

Multicriteria Decision Aid and Artificial Intelligence

Links, Theory and Applications

John Wiley & Sons *Presents recent advances in both models and systems for intelligent decision making. Organisations often face complex decisions requiring the assessment of large amounts of data. In recent years Multicriteria Decision Aid (MCDA) and Artificial Intelligence (AI) techniques have been applied with considerable success to support decision making in a wide range of complex real-world problems. The integration of MCDA and AI provides new capabilities relating to the structuring of complex decision problems in static and distributed environments. These include the handling of massive data sets, the modelling of ill-structured information, the construction of advanced decision models, and the development of efficient computational optimization algorithms for problem solving. This book covers a rich set of topics, including intelligent decision support technologies, data mining models for decision making, evidential reasoning, evolutionary multiobjective optimization, fuzzy modelling, as well as applications in management and engineering. Multicriteria Decision Aid and Artificial Intelligence: Covers all of the recent advances in intelligent decision making. Includes a presentation of hybrid models and algorithms for preference modelling and optimisation problems. Provides illustrations of new intelligent technologies and architectures for decision making in static and distributed environments. Explores the general topics on preference modelling and learning, along with the coverage of the main techniques and methodologies and applications. Is written by experts in the field. This book provides an excellent reference tool for the increasing number of researchers and practitioners interested in the integration of MCDA and AI for the development of effective hybrid decision support methodologies and systems. Academics and post-graduate students in the fields of operational research, artificial intelligence and management science or decision analysis will also find this book beneficial.*

Artificial Intelligence Perspectives in Intelligent Systems

Proceedings of the 5th Computer Science On-line Conference 2016 (CSOC2016), Vol 1

Springer *This volume is based on the research papers presented in the 5th Computer Science On-line Conference. The volume Artificial Intelligence Perspectives in Intelligent Systems presents modern trends and methods to real-world problems, and in particular, exploratory research that describes novel approaches in the field of artificial intelligence. New algorithms in a variety of fields are also presented. The Computer Science On-line Conference (CSOC 2016) is intended to provide an international forum for discussions on the latest research results in all areas related to Computer Science. The addressed topics are the theoretical aspects and applications of Computer Science, Artificial Intelligences, Cybernetics, Automation Control Theory and Software Engineering.*

Computational Intelligence and Bioinformatics

International Conference on Intelligent Computing, ICIC 2006, Kunming, China, August 16-19, 2006, Proceedings

Springer Science & Business Media *This book constitutes the refereed proceedings of the International Conference on Intelligent Computing, ICIC 2006, held in Kunming, China, in August 2006. The book presents 165 revised full papers, carefully reviewed. Topics covered include ant colony optimization, particle swarm optimization, swarm intelligence, autonomy-oriented computing, quantum and molecular computations, biological and DNA computing, intelligent computing in bioinformatics, intelligent computing in computational biology and drug design, computational genomics and proteomics, and more.*

Artificial Intelligence in Design '96

Springer Science & Business Media *Change is one of the most significant parameters in our society. Designers are amongst the primary change agents for any society. As a consequence design is an important research topic in engineering and architecture and related disciplines, since design is not only a means of change but is also one of the keystones to economic competitiveness and the fundamental precursor to manufacturing. The development of computational models founded on the artificial intelligence paradigm has provided an impetus for much of current design research -both computational and cognitive. These forms of design research have only been carried out in the last decade or so and in the temporal sense they are still immature. Notwithstanding this immaturity, noticeable advances have been made both in extending our understanding of design and in developing tools based on that understanding. Whilst many researchers in the field of artificial intelligence in design utilise ideas about how humans design as one source of concepts there is normally no attempt to model human designers. Rather the results of the research presented in this volume demonstrate approaches to increasing our understanding of design as a process.*

Ambient Intelligence

First International Joint Conference, AmI 2010, Málaga, Spain, November 10-12, 2010, Proceedings

Springer Science & Business Media In a world supported by Ambient Intelligence (AmI), various devices embedded in the environment collectively use the distributed information and the intelligence inherent in this interconnected environment. A range of information from sensing and reas- ing technologies is used by distributed devices in the environment. The cooperation between natural user interfaces and sensor interfaces covers all of a person's s- roundings, resulting in a device environment that behaves intelligently; the term "Ambient Intelligence" has been coined to describe it. In this way, the environment is able to recognize the persons in it, to identify their individual needs, to learn from their behavior, and to act and react in their interest. Since this vision is influenced by a lot of different concepts in information proce- ing and combines multi-disciplinary fields in electrical engineering, computer science, industrial design, user interfaces, and cognitive sciences, considerable research is needed to provide new models of technological innovation within a multi-dimensional society. Thus the AmI vision relies on the large-scale integration of electronics into the environment, enabling the actors, i.e., people and objects, to interact with their surrounding in a seamless, trustworthy, and natural manner.

Computational Collective Intelligence

12th International Conference, ICCCI 2020, Da Nang, Vietnam, November 30 – December 3, 2020, Proceedings

Springer Nature This volume constitutes the refereed proceedings of the 12th International Conference on Computational Collective Intelligence, ICCCI 2020, held in Da Nang, Vietnam, in November 2020.* The 70 full papers presented were carefully reviewed and selected from 314 submissions. The papers are grouped in topical sections on: knowledge engineering and semantic web; social networks and recommender systems; collective decision-making; applications of collective intelligence; data mining methods and applications; machine learning methods; deep learning and applications for industry 4.0; computer vision techniques; biosensors and biometric techniques; innovations in intelligent systems; natural language processing; low resource languages processing; computational collective intelligence and natural language processing; computational intelligence for multimedia understanding; and intelligent processing of multimedia in web systems. *The conference was held virtually due to the COVID-19 pandemic.

Artificial Intelligence in Education

Supporting Learning Through Intelligent and Socially Informed Technology

IOS Press The field of Artificial Intelligence in Education includes research and researchers from many areas of technology and social science. This study aims to open opportunities for the cross-fertilization of information and ideas from researchers in the many fields that make up this interdisciplinary research area.

Modern Approaches in Applied Intelligence

24th International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2011, Syracuse, NY, USA, June 28 - July 1, 2011, Proceedings, Part II

Springer The two volume set LNAI 6703 and LNAI 6704 constitutes the thoroughly refereed conference proceedings of the 24th International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2011, held in Syracuse, NY, USA, in June/July 2011. The total of 92 papers selected for the proceedings were carefully reviewed and selected from 206 submissions. The papers cover a wide number of topics including feature extraction, discretization, clustering, classification, diagnosis, data refinement, neural networks, genetic algorithms, learning classifier systems, Bayesian and probabilistic methods, image processing, robotics, navigation, optimization, scheduling, routing, game theory and agents, cognition, emotion, and beliefs.

Business Intelligence (Bi) Services Second Edition

5starcooks Is there a critical path to deliver Business Intelligence (BI) Services results? What are the compelling business reasons for embarking on Business Intelligence (BI) Services? How did the Business Intelligence (BI) Services manager receive input to the development of a Business Intelligence (BI) Services improvement plan and the estimated completion dates/times of each activity? How do the Business Intelligence (BI) Services results compare with the performance of your competitors and other organizations with similar offerings? Who needs to know about Business Intelligence (BI) Services ? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Business Intelligence (BI) Services investments work better. This Business Intelligence (BI) Services All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Business Intelligence (BI) Services Self-Assessment. Featuring 677 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Business Intelligence (BI) Services improvements can be made. In using the questions you will be better able to: - diagnose Business Intelligence (BI) Services projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Business Intelligence (BI) Services and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Business Intelligence (BI) Services Scorecard, you will develop a clear picture of which Business Intelligence (BI) Services areas need attention. Your purchase includes access details to the Business Intelligence (BI) Services self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard, and... - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation ...plus an extra, special, resource that helps you with project managing. INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.