Building An Intelligent Web Ty And Practice

As is true of most technological fields, the software industry is constantly advancing and becoming more accessible to a wider range of people. The advancement and accessibility of these systems creates a need for understanding and research into their development. Optimizing Contemporary Application and Processes in Open Source Software is a critical scholarly resource that examines the prevalence of open source software systems as well as the advancement and development of these systems. Featuring coverage on a wide range of topics such as machine learning, empirical software engineering and management, and open source, this book is geared toward academicians, practitioners, and researchers seeking current and relevant research on the advancement and prevalence of open source software systems.

The Web has revolutionized the way we seek information on all aspects of education, entertainment, business, health and so on. The Web has evolved into a publishing medium, global electronic market and increasingly, a platform for conducting electronic commerce. A part of this success can be attributed to the tremendous advances made in the Artificial Intelligence field. The popularity of the Web has opened many opportunities to develop smart Web-based systems using artificial intelligence techniques. There exist numerous Web technology and applications that can benefit with the application of artificial intelligence techniques. It is not possible to cover them all in one book with a required degree of quality, depth and width. We present this book to discuss some important Web developments by using artificial intelligence techniques in the areas of Web personalisation, semantic Web and Web services. The primary readers of this book are undergraduate/postgraduate students, researchers and practitioners in information technology and computer science related areas. The success of this book is largely due to the collective efforts of a great team consisting of authors and reviewers. We are grateful to them for their vision and wonderful support. The final quality of selected papers reflects their efforts. Finally we would like to thank the Queensland University of Technology, Brisbane Australia and University of South Australia, Adelaide Australia for providing us the resources and time to undertake this task. We extend our sincere thanks to Scientific Publishing Services Pvt. Ltd., for the editorial support.

In this study, we give a new outranking approach for multi-attribute decision-making problems in bipolar neutrosophic environment.

Knowledge Based Systems (KBS) are systems that use artificial intelligence techniques in the problem solving process. This text is designed to develop an appreciation of KBS and their architecture and to help users understand a broad variety of knowledge based techniques for decision support and planning. It assumes basic computer science skills and a math background that includes set theory, relations, elementary probability, and introductory concepts of artificial intelligence. Each of the 12 chapters are designed to be modular providing instructors with the flexibility to model the book to their own course needs. Exercises are incorporated throughout the text to highlight certain aspects of the material being presented and to stimulate thought and discussion.

Design, Use and Experience

Reality, Universal Ontology and Knowledge Systems: Toward the Intelligent World

International Workshop IICS 2001 Ilmenau, Germany, June 21-22, 2001 Proceedings

Object Magazine

Advances in Multiple Criteria Decision Making and Human Systems Management

The Work of the Future

The World Wide Web has become an extremely popular way of publishing and distributing electronic resources. Though the Web is rich with information, collecting and making sense of this data is difficult because it is rather unorganized. Building an Intelligent Web introduces students and professionals to the state-of-the art development of Web Intelligence techniques and teaches how to apply these techniques to develop the next generation of intelligent Web sites. Each chapter contains theoretical bases, which are also illustrated with the help of simple numeric examples, followed by practical implementation. Students will find Building an Intelligent Web to be an active and exciting introduction to advanced Web mining topics. Topics covered include Web Intelligence, Information Retrieval, Semantic Web, Classification and Association Rules, SQL, Database Theory, Applications to e-commerce and Bioinformatics, Clustering, Modeling Web Topology, and much more!

Get introduced to the world of artificial intelligence with this accessible and practical guide. Build applications that make intelligent use of language and user interaction to better compete in today's marketplace. Discover how your application can deeply understand and interpret content on the web or a user's machine, intelligently react to direct user interaction through speech or text, or make smart recommendations on products or services that are tailored to each individual user. With Microsoft Cognitive Services, you can do all this and more utilizing a set of easy-to-use APIs that can be consumed on the desktop, web, or mobile devices. Developers normally think of AI implementation as a tough task involving writing complex algorithms. This book aims to remove the anxiety by creating a cognitive application with a few lines of code. There is a wide range of Cognitive Services APIs available. This book focuses on some of the most useful and powerful ways that your application can make intelligent use of language. Artificial Intelligence for .NET: Speech, Language, and Search will show you how you can start building amazing capabilities into your applications today. What You'll Learn Understand the underpinnings of artificial intelligence through practical examples and scenarios Get started building an AI-based application in Visual Studio Build a text-based conversational interface for direct user interaction Use the Cognitive Services Speech API to recognize and interpret speech Look at different models of language, including natural language processing, and how to apply them in your Visual Studio application Reuse Bing search capabilities to better understand a user's intention Work with recommendation engines and integrate them into your apps Who This Book Is For Developers working on a range of platforms, from .NET and Windows to mobile devices. Examples are given in C#. No prior experience with AI techniques or theory is required.

This book constitutes the refereed proceedings of the International Workshop on Innovative Internet Computing Systems, IICS 2001, held in Ilmenau, Germany, in June 2001. The nine revised full papers and five short papers presented together with two invited papers were carefully reviewed and selected from 30 submissions. Among the topics addressed are multicast protocols, IP-QoS, distributed environments, Jinni agents, Internet services, Web algorithms, agent-based collaboration, agent-based distributed computing, Internet trading services, mobile networking, and distributed teams.

The go-to guide for smart REIT investing The Intelligent REIT Investor is the definitive guide to real estate investment trusts, providing a clear, concise resource for individual investors, financial planners, and analysts—anyone who prioritizes dividend income and risk management as major components to wealth-building. The REIT industry experienced a watershed event when Standard & Poors created a new Global Industry Classification Standard (GICS) sector called Real Estate. Publicly traded equity REITs have been removed from Financials, where they have been classified since their creation in 1960, and have begun trading as their own S&P Sector. This separation from banks and financial institutions has attracted new investors, but REITs require an industry-specific knowledge that is neither intuitive nor readily accessible to newcomers—until now. Using straightforward language and simple example to illustrate important concepts, this book will enable any reader to quickly learn and understand the lexicon and valuation techniques used in REIT investing, providing a wealth of practical resources that streamline the learning process. The discussion explains terminology, metrics, and other key points, while examples illustrate the calculations used to evaluate opportunities. A comprehensive list of publicly-traded REITs provides key reference, giving you access to an important resource most investors and stockbrokers lack. REITs are companies that own or finance commercial rental properties, such as malls and apartment buildings. Despite historically high total returns relative to other investments, such as the Nasdaq or S&P 500 index, most investors are unfamiliar with the REIT industry, and wary of investing without adequate background. This book gets you up to speed on the essentials of REIT investing so you can make more informed—and profitable—decisions. Understand REITs processes, mechanisms, and industry Calculate key metrics to identify suitable companies Access historical performance tables and industry-specific terminology Identify publicly-traded REITs quickly and easily REITs have consistently outperformed many more widely known investments. Over the past 15-year period, for example, REITs returned an average of 11% per year, better than all other asset classes. Since 2009, REITs have enjoyed positive returns; large cap stocks and cash are the only other classes that paralleled that record. Even in 2015, a 'year of fear' related to rising rates, REITs returned 2.4%, beating most all other asset classes. REITs have a long history (over fifty years) of performance, and have entered the big leagues. If you feel like you've been missing out, don't keep missing out. Prepare yourself, and your portfolio, to benefit from the demand for REITs that have followed the creation of a Real Estate GICS sector. The Intelligent REIT Investor gives you the information you need to invest wisely and manage your real estate risk effectively. By maintaining a tactical exposure in the brick and mortar asset class, investors should benefit from the information contained in The Intelligent REIT Investor. Join the REIT world and look forward to owning stocks that will help you to sleep well at night.

A new approach for multi-attribute decision-making problems in bipolar neutrosophic sets

Building an Intelligent Web

Knowledge-Based Systems

Multi-Agent Systems for Education and Interactive Entertainment: Design, Use and Experience

Optimizing Contemporary Application and Processes in Open Source Software

Handbook of Research on Emerging Trends and Technologies in Librarianship

"This book presents readers with a rich collection of ideas from researchers who are exploring the complex tradeoffs that must be made in designing agent systems for education and interactive entertainment"--Provided by publisher.

Special Features: Learning Elements:· How to create recommendations just like those on Netflix and Amazon· How to implement Google's Pagerank algorithm· How to discover matches on social-networking sites· How to organize the discussions on your favorite news group· How to select topics of interest from shared bookmarks· How to leverage user clicks· How to categorize emails based on their conte applications that do targeted advertising· How to implement fraud detection About The Book: Algorithms of the Intelligent Web is an example-driven blueprint for creating applications that collect, analyze, and act on the massive quantities of data users leave in their wake as they use the web. You'll learn how to build Amazon- and Netflix-style recommendation engines, and how the same techniques apply to social-networking sites. See how click-trace analysis can result in smarter ad rotations. With a plethora of examples and extensive detail, this book shows you how to build Web 2.0 applications that are as smart as your users.

"This book provides cutting-edge research on reality, its nature and fundamental structure, represented both by human minds and intelligent machines.--striving to describe a world model and ontology; organized human knowledge; powerful reasoning systems; and secure communication interoperability between human beings and computing reasoning systems promising the profound revolution in human v life"--Provided by publisher.

This two-volume set of LNCS 12736-12737 constitutes the refereed proceedings of the 7th International Conference on Artificial Intelligence and Security, ICAIS 2021, which was held in Dublin, Ireland, in July 2021. The conference was formerly called "International Conference on Cloud Computing and Security" with the acronym ICCCS. The total of 93 full papers and 29 short papers presented in this two-v proceedings was carefully reviewed and selected from 1013 submissions. Overall, a total of 224 full and 81 short papers were accepted for ICAIS 2021; the other accepted papers are presented in CCIS 1422-1424. The papers were organized in topical sections as follows: Part I: Artificial intelligence; and big data Part II: Big data; cloud computing and security; encryption and cybersecurity; information hidin and multimedia forensics

Intelligent Tutoring Systems

Community Building on the Web

Enterprise Information Systems VII

Handbook on Intelligent Techniques in the Educational Process

Computational Collective Intelligence. Semantic Web, Social Networks and Multiagent Systems

Toward the Intelligent World

What's the point of creating a great Web site if no one goes there-or worse, if people come but never return? How do some sites, such as America Online, EBay, and GeoCities, develop into Internet communities with loyal followings and regular repeat traffic? How can Web page designers and developers create sites that are vibrant and rewarding? Amy Jo Kim, author of Community Building on the Web and consultant to some of the most successful Internet communities, is an expert at teaching how to design sites that succeed by making new visitors feel welcome, rewarding member participation, and building a sense of their own history. She discusses important design strategies, interviews influential Web community-builders, and provides the reader with templates and questionnaires to use in building their own communities.

" This volume, edited as a Festschrift in honor of Prof. Milan Zeleny, reflects and emulates his unmistakable legacy: the essential multidimensionality of human and social affairs. There are many levels of this multidimensionality presented in this volume: 1. Multidisciplinarity of contributed papers 2. Multinationality of their authors, extending even to the editors and the publisher and 3. Multicultural and multilevel exposition, ranging from empirical studies to philosophical foundations. Generally, these papers can be divided into three parts: Multiple Criteria Decision Making; Social and Human System Management; and Information, Knowledge and Wisdom Management. It is the recognition of multidimensionality in decision making, economics, optimization, systems, cybernetics and the pursuit of knowledge that bear the stamp of specific Zelenys contributions. His life-long dedication to multidimensionality has produced an ultimate multidimensional being, living in academic multiverse, functioning in a boundaryless world of all continents, cultures and countries. This book is as diverse and as multidimensional as the man and his work. "

This book discusses emerging technologies in the field of the Internet of Things and big data, an area that will be scaled in next two decades. Written by a team of leading experts, it is the only book focusing on the broad areas of both the Internet of things and big data. The thirteen chapters present real-time experimental methods and theoretical explanations, as well as the implementation of these technologies through various applications. Offering a blend of theory and hands-on practices, the book enables graduate, postgraduate and research students who are involved in real-time project scaling techniques to understand projects and their execution. It is also useful for senior computer students, researchers and industry workers who are involved in experimenting with the Internet of Things and big data technologies, helping them to solve the real-time problem. Moreover, the chapters covering cutting-edge technologies help multidisciplinary researchers who are bridging the gap of two different outset real-time problems.

Artificial intelligence (AI) is a field within computer science that is attempting to build enhanced intelligence into computer systems. This book traces the history of the subject, from the early dreams of eighteenth-century (and earlier) pioneers to the more successful work of today's AI engineers. AI is becoming more and more a part of everyone's life. The technology is already embedded in face-recognizing cameras, speech-recognition software, Internet search engines, and health-care robots, among other applications. The book's many diagrams and easy-to-understand descriptions of AI programs will help the casual reader gain an understanding of how these and other AI systems actually work. Its thorough (but unobtrusive) end-of-chapter notes containing citations to important source materials will be of great use to AI scholars and researchers. This book promises to be the definitive history of a field that has captivated the imaginations of scientists, philosophers, and writers for centuries.

Handbook of Research on Demand-Driven Web Services: Theory, Technologies, and Applications

Knowledge and Wisdom : in Honor of Professor Milan Zeleny

ALGORITHMS OF THE INTELLIGENT WEB

Innovative Internet Computing Systems

Organizing Around Intelligence: The New Paradigm (2nd Edition)

Web Intelligence Meets Brain Informatics

Be Right at Home in the World's Most Powerful Web Development Environment For large-scale web application development, Visual Studio 2005 is the most capable product around. This book shows team members and leaders how to use its power in several key dimensions. You'll master dozens of built-in features for creating a large, high-performance website based on ASP.NET 2.0. You'll work seamlessly with dynamic data, both reading from and writing to databases. And throughout, you'll learn how Visual Studio 2005 supports a more efficient group process in terms of design, development, and deployment. And everything is brought together with the enterprise-scale example, "ABC Incorporated," that runs throughout the book. This is a book no web developer, and no web-dependent organization, should be without. Coverage Includes Reaping the benefits of master pages and themes Generating site maps and other navigational aids automatically Building a shopping cart application for your website Adding search functionality to your website Creating a flexible user environment using Webpart technology Increasing application performance using client-side and server-side scripting technologies Giving users the ability to change the website's theme to meet specific needs Using components and controls to add special effects and user customization Improving team efficiency using modern development and design techniques Monitoring and responding to usage statistics Combining technologies to get the best possible results from large applications Making your site accessible to everyone Master Standards-Based Web Development Techniques New to Visual Studio 2005 Discover How Visual Studio 2005 Solves Team Development Issues, Such as Source Code Control and Application Design Simplify Database Application Development without Compromising Security or Reliability

Education has a substantial impact and influences on almost all sectors in modern society. Different computer-supported educational systems have been developing for many decades to support and make easier teaching and learning processes on all levels of education. Influences of rapid development of Information Communication Technologies and other related disciplines on design and implementation of intelligent, sophisticated educational systems are evident. Nowadays intensive development and wide applications of Artificial Intelligent techniques significantly affect the development of intelligent tutoring systems, smart learning environments that incorporate virtual and augmented reality and robots. Artificial Intelligence has the potential to address some of the biggest challenges in education today, but also in the future in order to establish innovative teaching and learning practices facilitated by powerful educational datamining and learning analytics. This book presents a collection of 17 chapters that bring interesting aspects of the state-of-the-art of application of intelligent techniques in different educational processes and settings. We believe that the works presented in the book will be of great interest to readers and that will motivate them to try to enhance presented approaches and propose better and more advanced solutions.

Computational collective intelligence (CCI) is most often understood as a subfield of artificial intelligence (AI) dealing with soft computing methods that enable group decisions to be made or knowledge to be processed among autonomous units acting in distributed environments. The needs for CCI techniques and tools have grown signi- cantly recently as many information systems work in distributed environments and use distributed resources. Web-based systems, social networks and multi-agent systems very often need these tools for working out consistent knowledge states, resolving conflicts and making decisions. Therefore, CCI is of great importance for today's and future distributed systems. Methodological, theoretical and practical aspects of computational collective int- ligence, such as group decision making, collective action coordination, and knowledge integration, are considered as the form of intelligence that emerges from the collabo- tion and competition of many individuals (artificial and/or natural). The application of multiple computational intelligence technologies such as fuzzy systems, evolutionary computation, neural systems, consensus theory, etc. , can support human and other collective intelligence and create new forms of CCI in natural and/or artificial s- tems.

Why the United States lags behind other industrialized countries in sharing the benefits of innovation with workers and how we can remedy the problem. The United States has too many low-quality, low-wage jobs. Every country has its share, but those in the United States are especially poorly paid and often without benefits. Meanwhile, overall productivity increases steadily and new technology has transformed large parts of the economy, enhancing the skills and paychecks of higher paid knowledge workers. What's wrong with this picture? Why have so many workers benefited so little from decades of growth? The Work of the Future shows that technology is neither the problem nor the solution. We can build better jobs if we create institutions that leverage technological innovation and also support workers though long cycles of technological transformation. Building on findings from the multiyear MIT Task Force on the Work of the Future, the book argues that we must foster institutional innovations that complement technological change. Skills programs that emphasize work-based and hybrid learning (in person and online), for example, empower workers to become and remain productive in a continuously evolving workplace. Industries fueled by new technology that augments workers can supply good jobs, and federal investment in R&D can help make these industries worker-friendly. We must act to ensure that the labor market of the future offers benefits, opportunity, and a measure of economic security to all.

First WICI International Workshop, WImBI 2006, Beijing, China, December 15-16, 2006, Revised Selected and Invited Papers

Artificial Intelligence for .NET: Speech, Language, and Search

Semantic Web and Education

Information Granularity, Big Data, and Computational Intelligence

Building Better Jobs in an Age of Intelligent Machines

Theory, Technologies, and Applications

This is the first book treatment on two "hot button" topics in Information Systems, Computer Science and Education: the application of web technology for educational use. The result is a thorough and highly useful presentation on the confluence of the technical aspects of the Semantic Web and the field of Education or the art of teaching. The book will interest researchers and students in the fields of Information Systems, Computer Science, and Education.

Organizing Around Intelligence (2nd Edition) introduces a new mindset in leading, managing and structuring human organizations in the 21st Century. This paradigm shift is vital as humankind enters the intelligence era (the core of the knowledge economy). Focusing on nurturing highly intelligent human organizations (iCAS), the intelligent organization theory introduced in the book recounts the revelation and significance of intelligence management that concentrates on the human thinking systems and the orgmind. In addition to the basic concepts of CAS and the complex adaptive dynamics, several mind-stimulating concepts/models in the new perspective such as the integrated deliberate and emergent strategy, general information theory, 3C-OK interdependency framework, intelligent person model, paper dialogue and the intelligence leadership theory are also discussed. Understanding these intelligence-centric frameworks/models provides a better strategy for leading and managing highly intelligent human organizations and creates a more sustainable intelligence advantage.

This proceedings book showcases the latest research work presented at the Second Edition of the Mediterranean Symposium on Smart City Application (SCAMS 2017), which was held in Tangier, Morocco on October 15–27, 2017. It presents original research results, new ideas and practical development experiences that concentrate on both theory and practice. It includes papers from all areas of Smart City Applications, e.g. Smart Mobility, Big Data, Smart Grids, Smart Homes and Buildings, clouds, crowds, mashups, social networks, and security issues. The conference stimulated cutting-edge research discussions among pioneering researchers, scientists, industrial engineers, and students from all around the world. The topics covered in this book also focus on innovative issues at the international level by bringing together experts from different countries. The scope of SCAMS 2017 included methods and practices that combine various emerging internetworking and data technologies to capture, integrate, analyze, mine, annotate, and visualize data in a meaningful and collaborative manner. A series of international workshops were organized as invited sessions during the SCAMS 2017:The 2nd International Workshop on Smart Learning & Innovative EducationsThe 1st International Workshop on Smart HealthcareThe 1st International Workshop on Mathematics for Smart CityThe 1st International Workshop Industry 4.0 and Smart Manufacturing

Intelligent agent technology is emerging as one of the most important and rapidly advancing areas. Researchers are developing a number of agent-based applications and multi-agent systems in a variety of fields, such as: electronic commerce, supply chain management, resource allocation, intelligent manufacturing, mass customization, industrial control, information retrieval and filtering, collaborative work, mobile commerce, decision support, and computer games. Application of Agents and Intelligent Information Technologies presents an outstanding collection of the latest research associated with intelligent agents and information technologies. Application of Agents and Intelligent Information Technologies provides a comprehensive analysis of issues related to agent design, implementation, integration, deployment, evaluation, and business value. This book presents research results and application of agents and other intelligent information technologies in various domains. Application of Agents and Intelligent Information Technologies offers the intelligent information technologies that will potentially revolutionize the work environment as well as social computing.

How to Build Wealth with Real Estate Investment Trusts

Mastering Web Development with Microsoft Visual Studio 2005

Research Anthology on Usage and Development of Open Source Software

6th International Conference on Intelligent Computing, ICIC 2010, Changsha, China, August 18-21, 2010, Proceedings

Handbook of Research on Text and Web Mining Technologies

Internet of Things and Big Data Analytics for Smart Generation

The International Conference on Intelligent Computing (ICIC) was formed to provide an annual forum dedicated to the emerging and challenging topics in artificial intel- gence, machine learning, pattern recognition, image processing, bioinformatics, and computational biology. It aims to bring together researchers and practitioners from both academia and industry to share ideas, problems, and solutions related to the m- tifaceted aspects of intelligent computing. ICIC 2010, held in Changsha, China, August 18-21, 2010, constituted the 6th - ternational Conference on Intelligent Computing. It built upon the success of ICIC 2009, ICIC 2008, ICIC 2007, ICIC 2006, and ICIC 2005, that were held in Ulsan, Korea, Shanghai, Qingdao, Kunming, and Hefei, China, 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 "Advanced Intelligent Computing Technology and Applications." Papers focusing on this theme were solicited, addressing theories, methodologies, and applications in science and technology.

This book introduces a research applications in Web intelligence. It presents a number of innovative proposals which will contribute to the development of web science and technology for the long-term future, rendering this work a valuable piece of knowledge.

A fundamental dynamism of the library is its continuous adoption of trending technologies and innovations for enhanced service delivery. To meet the needs of library users in the Fourth Industrial Revolution, an era characterized by digital revolution, knowledge economy, globalization, and information explosion, libraries have embraced innovations and novel technologies such as artificial intelligence, blockchain, social mediation tools, and the internet of things (IoT). The Handbook of Research on Emerging Trends and Technologies in Librarianship documents current research findings and theoretical studies focused on innovations and technologies used in contemporary libraries. This book provides relevant models, theoretical frameworks, the latest empirical research findings, and sound theoretical research regarding the use of novel technologies in libraries. Covering topics such as digital competitive advantage, smart governance, and social media, this book is an excellent resource for librarians, archivists, library associations and committees, researchers, academicians, students, faculty of higher education, computer scientists, programmers, and professionals.

This book constitutes the refereed proceedings of the 7th International Conference on Intelligent Tutoring Systems, ITS 2004, held in Maceió, Alagoas, Brazil in August/September 2004. The 73 revised full papers and 39 poster papers presented together with abstracts of invited talks, panels, and workshops were carefully reviewed and selected from over 180 submissions. The papers are organized in topical sections on adaptive testing, affect, architectures for ITS, authoring systems, cognitive modeling, collaborative learning, natural language dialogue and discourse, evaluation, machine learning in ITS, pedagogical agents, student modeling, and teaching and learning strategies.

Innovations in Smart Cities and Applications

Theory and Practice

Artificial Intelligence in Nondestructive Testing of Civil Engineering Materials

The Intelligent REIT Investor

Building Information Modelling (BIM) in Design, Construction and Operations IV

Advanced Techniques in Web Intelligence -1

This book constitutes the thoroughly refereed post-workshop proceedings of the First WICI International Workshop on Web Intelligence meets Brain Informatics, WImBI 2006, which was held in Beijing, China, in December 2006. The workshop explores a new perspective of Web Intelligence (WI) research from the viewpoint of Brain Informatics (BI). The 26 revised full-length papers presented together with three introductory lectures have been carefully reviewed and selected.

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.

Containing papers presented at the 4th International Conference on Building Information Modelling (BIM) in Design, Construction and Operations, this volume brings together the research of experts from industry, practice and academia. It describes innovative solutions and predictions for future trends across key BIM-related topics. The modern construction industry and built environment disciplines have been transformed through the development of new and innovative BIM tools and techniques. These have fundamentally altered the manner in which construction teams operate; the processes through which designs are evolved; and the relationships between conceptual, detail, construction and life cycle stages. BIM is essentially value-creating collaboration throughout the entire life-cycle of an asset, underpinned by the data attached to them. BIM has far and reaching consequences on both building procurement and infrastructure. This recent emergence constitutes one of the most exciting developments in the field of the Built Environment. These advances have offered project teams multi-sensory collaborative tools and opportunities for new communication structures. The included papers cover such topics as: BIM in design coordination; BIM in construction operations; BIM in building operation and maintenance; BIM and sustainability; BIM and collaborative working and practices; BIM-Facilities management integration; BIM-GIS integration; BIM and automation in construction; BIM and health and safety; BIM standards; BIM and interoperability; BIM and life cycle project management; BIM and cultural heritage; BIM and robotics; BIM in risk analysis and management; BIM in building cost control; BIM and building representation; Virtual design and construction (VDC); BIM in the execution phase; BIM for infrastructure development; Digital twins.

Application of Agents and Intelligent Information Technologies

Building Smart Applications with Microsoft Cognitive Services APIs

The Building News and Engineering Journal

Secret Strategies for Successful Online Communities

7th International Conference, ITS 2004, Maceió, Alagoas, Brazil, August 30 - September 3, 2004, Proceedings

Artificial Intelligence and Security

In the current technological world, Web services play an integral role in service computing and social networking services. This is also the case in the traditional FREG (foods, resources, energy, and goods) services because almost all traditional services are replaced fully or partially by Web services. Handbook of Research on Demand-Driven Web Services: Theory, Technologies, and Applications presents comprehensive and in-depth studies that reveal the cutting-edge theories, technologies, methodologies, and applications of demand-driven Web, mobile, and e-business services. This book provides critical perspectives for researchers and practitioners, lecturers and undergraduate/graduate students, and professionals in the fields of computing, business, service, management, and government, as well as a variety of readers from all the social strata.

The quick growth of computer technology and development of software caused it to be in a constant state of change and advancement. This advancement in software development meant that there would be many types of software developed in order to excel in usability and efficiency. Among these different types of software was open source software, one that grants permission for users to use, study, change, and distribute it freely. Due to its availability, open source software has quickly become a valuable asset to the world of computer technology and across various disciplines including education, business, and library science. The Research Anthology on Usage and Development of Open Source Software presents comprehensive research on the design and development of open source software as well as the ways in which it is used. The text discusses in depth the way in which this computer software has been made into a collaborative effort for the advancement of software technology. Discussing topics such as ISO standards, big data, fault prediction, open collaboration, and software development, this anthology is essential for computer engineers, software developers, IT specialists and consultants, instructors, librarians, managers, executives, professionals, academicians, researchers, and students.

The purpose of the 7th International Conference on Enterprise Information Systems (ICEIS) was to bring together researchers, engineers and practitioners interested in the advances and business applications of information systems. ICEIS focuses on real world applications, therefore authors were asked to highlight the benefits of Information Technology for industry and services. Papers included in the book are the best papers presented at the conference.

7th International Conference, ICAIS 2021, Dublin, Ireland, July 19–23, 2021, Proceedings, Part I

Vol 1 Recent Advances and Case Studies

Military Intelligence Professional Bulletin

Proceedings of the 2nd Mediterranean Symposium on Smart City Applications

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

Evolution of the Web in Artificial Intelligence Environments