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## KEY=BUSINESS - LENNON RIDDLE

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### INTELLIGENT INFORMATION AND DATABASE SYSTEMS

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#### 4TH ASIAN CONFERENCE, ACIIDS 2012, KAOHSIUNG, TAIWAN, MARCH 19-21, 2012, PROCEEDINGS, PART II

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*Springer* The three-volume set LNAI 7196, LNAI 7197 and LNAI 7198 constitutes the refereed proceedings of the 4th Asian Conference on Intelligent Information and Database Systems, ACIIDS 2012, held in Kaohsiung, Taiwan in March 2012. The 161 revised papers presented were carefully reviewed and selected from more than 472 submissions. The papers included cover the following topics: intelligent database systems, data warehouses and data mining, natural language processing and computational linguistics, semantic Web, social networks and recommendation systems, collaborative systems and applications, e-bussiness and e-commerce systems, e-learning systems, information modeling and requirements engineering, information retrieval systems, intelligent agents and multi-agent systems, intelligent information systems, intelligent internet systems, intelligent optimization techniques, object-relational DBMS, ontologies and knowledge sharing, semi-structured and XML database systems, unified modeling language and unified processes, Web services and semantic Web, computer networks and communication systems.

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### NEW TRENDS IN INTELLIGENT INFORMATION AND DATABASE SYSTEMS

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*Springer* Intelligent information and database systems are two closely related subfields of modern computer science which have been known for over thirty years. They focus on the integration of artificial intelligence and classic database technologies to create the class of next generation information systems. The book focuses on new trends in intelligent information and database systems and discusses topics addressed to the foundations and principles of data, information, and knowledge models, methodologies for intelligent information and database systems analysis, design, and implementation, their validation, maintenance and evolution. They cover a broad spectrum of research topics discussed both from the practical and theoretical points of view such as: intelligent information retrieval, natural language processing, semantic web, social networks, machine learning, knowledge discovery, data mining, uncertainty management and reasoning under uncertainty, intelligent optimization techniques in information systems, security in databases systems, and multimedia data analysis. Intelligent information systems and their applications in business, medicine and industry, database systems applications, and intelligent internet systems are also presented and discussed in the book. The book consists of 38 chapters based on original works presented during the 7th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2015) held on 23-25 March 2015 in Bali, Indonesia. The book is divided into six parts related to Advanced Machine Learning and Data Mining, Intelligent Computational Methods in Information Systems, Semantic Web, Social Networks and Recommendation Systems, Cloud Computing and Intelligent Internet Systems, Knowledge and Language Processing, and Intelligent Information and Database Systems: Applications.

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### INTELLIGENT INFORMATION AND DATABASE SYSTEMS

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#### THIRD INTERNATIONAL CONFERENCE, ACIIDS 2011, DAEGU, KOREA, APRIL 20-22, 2011, PROCEEDINGS, PART I

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*Springer* The two-volume set LNAI 6591 and LNCS 6592 constitutes the refereed proceedings of the Third International Conference on Intelligent Information and Database Systems, ACIIDS 2011, held in Daegu, Korea, in April 2011. The 110 revised papers presented together with 2 keynote speeches were carefully reviewed and selected from 310 submissions. The papers are thematically divided into two volumes; they cover the following topics: intelligent database systems, data warehouses and data mining, natural language processing and computational linguistics, semantic Web, social networks and recommendation systems, technologies for intelligent information systems, collaborative systems and applications, e-business and e-commerce systems, e-learning systems, information modeling and requirements engineering, information retrieval systems, intelligent agents and multi-agent systems, intelligent information systems, intelligent internet systems, intelligent optimization techniques, object-relational DBMS, ontologies and knowledge sharing, semi-structured and XML database systems, unified modeling language and unified processes, Web services and semantic Web, computer networks and communication systems.

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### DISTRIBUTED COMPUTING AND ARTIFICIAL INTELLIGENCE, 12TH INTERNATIONAL CONFERENCE

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*Springer* The 12th International Symposium on Distributed Computing and Artificial Intelligence 2015 (DCAI 2015) is a forum to present applications of innovative techniques for studying and solving complex problems. The exchange of ideas between scientists and technicians from both the academic and industrial sector is essential to facilitate the development of systems that can meet the ever-increasing demands of today's society. The present edition brings together past experience, current work and promising future trends associated with distributed computing, artificial intelligence and their application in order to provide efficient solutions to real problems. This symposium is organized by the Osaka Institute of Technology, Qatar University and the University of Salamanca.

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### ADVANCED APPROACHES TO INTELLIGENT INFORMATION AND DATABASE SYSTEMS

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*Springer* This book consists of 35 chapters presenting different theoretical and practical aspects of Intelligent Information and Database Systems. Nowadays both Intelligent and Database Systems are applied in most of the areas of human activities which necessitates further research in these areas. In this book various interesting issues related to the intelligent information models and methods as well as their advanced applications, database systems applications, data models and their analysis and digital multimedia methods and applications are presented and discussed both from the practical and theoretical points of view. The book is organized in four parts devoted to intelligent systems models and methods, intelligent systems advanced applications, database systems methods and applications and multimedia systems methods and applications. The book will be interesting for practitioners and researchers, especially graduate and PhD students of information technology and computer science, as well more experienced academics and specialists interested in developing and verification of intelligent information, database and multimedia systems models, methods and applications. The readers of this volume are enabled to find many inspiring ideas and motivating practical examples that will help them in the current and future work.

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### NEW TRENDS IN INTELLIGENT SOFTWARE METHODOLOGIES, TOOLS AND TECHNIQUES

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#### PROCEEDINGS OF THE 20TH INTERNATIONAL CONFERENCE ON NEW TRENDS IN INTELLIGENT SOFTWARE METHODOLOGIES, TOOLS AND TECHNIQUES (SOMET\_21)

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*IOS Press* The integration of AI with software is an essential enabler for science and the new economy, creating new markets and opportunities for a more reliable, flexible and robust society. Current software methodologies, tools and techniques often fall short of expectations, however, and much software remains insufficiently robust and reliable for a constantly changing and evolving market. This book presents 54 papers delivered at the 20th edition of the International Conference on New Trends in Intelligent Software Methodology Tools, and Techniques (SoMeT\_21), held in Cancun, Mexico, from 21-23 September 2021. The aim of the conference was to capture the essence of a new state-of-the-art in software science and its supporting technology and to identify the challenges that such a technology will need to master, and this book explores the new trends and theories illuminating the direction of development in this field as it heads towards a transformation in the role of software and science integration in tomorrow's global information society. The 54 revised papers were selected for publication by means of a rigorous review process involving 3 or 4 reviewers for each paper, followed by selection by the SoMeT\_21 international reviewing committee. The book is divided into 9 chapters, classified by paper topic and relevance to the chapter theme. Covering topics ranging from research practices, techniques and methodologies to proposing and reporting on the solutions required by global business, the book offers an opportunity for the software science community to consider where they are today and where they are headed in the future.

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### WEB SERVICES: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

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#### CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

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*IGI Global* Web service technologies are redefining the way that large and small companies are doing business and exchanging information. Due to the critical need for furthering automation, engagement, and efficiency, systems and workflows are becoming increasingly more web-based. Web Services: Concepts, Methodologies, Tools, and Applications is an innovative reference source that examines relevant theoretical frameworks, current practice guidelines, industry standards and standardization, and the latest empirical research findings in web services. Highlighting a range of topics such as cloud computing, quality of service, and semantic web, this multi-volume book is designed for computer engineers, IT specialists, software designers, professionals, researchers, and upper-level students interested in web services architecture, frameworks, and security.

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### INTELLIGENT ANALYTICS WITH ADVANCED MULTI-INDUSTRY APPLICATIONS

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*IGI Global* Many fundamental technological and managerial issues surrounding the development and implementation of intelligent analytics within multi-industry applications remain unsolved. There are still questions surrounding the foundation of intelligent analytics, the elements, the big characteristics, and the effects on business, management, technology, and society. Research is devoted to answering these questions and understanding how intelligent analytics can improve healthcare, mobile commerce, web services, cloud services, blockchain, 5G development, digital transformation, and more. Intelligent Analytics With Advanced Multi-Industry Applications is a critical reference source that explores cutting-edge theories, technologies, and methodologies of intelligent analytics with multi-industry applications and emphasizes the integration of artificial intelligence, business intelligence, big data, and analytics from a perspective of computing, service, and management. This book also provides real-world applications of the proposed concept of intelligent analytics to e-SMACS (electronic, social, mobile, analytics, cloud, and service) commerce and services, healthcare, the internet of things, the sharing economy, cloud computing, blockchain, and Industry 4.0. This book is ideal for scientists, engineers, educators, university students, service and management professionals, policymakers, decision makers, practitioners, stakeholders, researchers, and others who have an interest in how intelligent analytics are being implemented and utilized in diverse industries.

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**INTELLIGENT INFORMATION PROCESSING**


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**IFIP 17TH WORLD COMPUTER CONGRESS – TC12 STREAM ON INTELLIGENT INFORMATION PROCESSING AUGUST 25-30, 2002, MONTRÉAL, QUÉBEC, CANADA**


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*Springer* Intelligent Information Processing presents new research with special emphasis on knowledge-based system architecture and intelligent information management. The following topics are addressed: -Agent-based Computing; -Semantic Web and Learning; -Ontology Management; -Semantic Web Architecture; -Knowledge-engineering Frameworks; -Knowledge-system Structure; -Data Mining; -Methods and Tools for Identifying Communities of Practice; and -Implementing Problem Solvers.

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**INTELLIGENT INFORMATION AND DATABASE SYSTEMS**


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**SECOND INTERNATIONAL CONFERENCE, ACIIDS 2010, HUE CITY, VIETNAM, MARCH 24-26, 2010, PROCEEDINGS**


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*Springer Science & Business Media* The 2010 Asian Conference on Intelligent Information and Database Systems (ACIIDS) was the second event of the series of international scientific conferences for research and applications in the field of intelligent information and database systems. The aim of ACIIDS 2010 was to provide an international forum for scientific research in the technologies and applications of intelligent information, database systems and their applications. ACIIDS 2010 was co-organized by Hue University (Vietnam) and Wroclaw University of Technology (Poland) and took place in Hue city (Vietnam) during March 24–26, 2010. We received almost 330 papers from 35 countries. Each paper was peer reviewed by at least two members of the International Program Committee and International Reviewer Board. Only 96 best papers were selected for oral presentation and publication in the two volumes of the ACIIDS 2010 proceedings. The papers included in the proceedings cover the following topics: artificial social systems, case studies and reports on deployments, collaborative learning, collaborative systems and applications, data warehousing and data mining, database management technologies, database models and query languages, database security and integrity, - business, e-commerce, e-finance, e-learning systems, information modeling and - requirements engineering, information retrieval systems, intelligent agents and mul- agent systems, intelligent information systems, intelligent internet systems, intelligent optimization techniques, object-relational DBMS, ontologies and information sharing, semi-structured and XML database systems, unified modeling language and unified processes, Web services and Semantic Web, computer networks and communication systems.

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**INTELLIGENT INFORMATION AND DATABASE SYSTEMS**


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**5TH ASIAN CONFERENCE, ACIIDS 2013, KUALA LUMPUR, MALAYSIA, MARCH 18-20, 2013, PROCEEDINGS, PART II**


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*Springer* The two-volume set LNAI 7802 and LNAI 7803 constitutes the refereed proceedings of the 5th Asian Conference on Intelligent Information and Database Systems, ACIIDS 2013, held in Kuala Lumpur, Malaysia in March 2013. The 108 revised papers presented were carefully reviewed and selected from numerous submissions. The papers included are grouped into topical sections on: innovations in intelligent computation and applications; intelligent database systems; intelligent information systems; tools and applications; intelligent recommender systems; multiple modal approach to machine learning; engineering knowledge and semantic systems; computational biology and bioinformatics; computational intelligence; modeling and optimization techniques in information systems, database systems and industrial systems; intelligent supply chains; applied data mining for semantic Web; semantic Web and ontology; integration of information systems; and conceptual modeling in advanced database systems.

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**NEW CHALLENGES FOR INTELLIGENT INFORMATION AND DATABASE SYSTEMS**


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*Springer* The book consists of 35 extended chapters which have been based on selected submissions to the poster session organized during the 3rd Asian Conference on Intelligent Information and Database Systems (20-22 April 2011 in Daegu, Korea). The book is organized into four parts, which are information retrieval and management, data mining and computational intelligence, service composition and user-centered approach, and intelligent management and e-business, respectively. All chapters in the book discuss theoretical and practical issues related to integration of artificial intelligence and database technologies in order to develop various intelligent information systems in many different domains. Such combination of artificial intelligence and database technologies has been regarded as one of the important interdisciplinary subfields of modern computer science, due to the sustainable development of networked information systems. Especially, service-oriented architecture and global multimedia systems used on a number of different purpose call for these developments. The book will be of interest to postgraduate students, professors and practitioners in the areas of artificial intelligence and database systems to modern information environments. The editors hope that readers of this volume can find many inspiring ideas and influential practical examples and use them in their future work.

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**HUMAN DEVELOPMENT AND INTERACTION IN THE AGE OF UBIQUITOUS TECHNOLOGY**


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*IGI Global* The human condition is affected by numerous factors in modern society. In modern times, technology is so integrated into culture that it has become necessary to perform even daily functions. Human Development and Interaction in the Age of Ubiquitous Technology is an authoritative reference source for the latest scholarly research on the widespread integration of technological innovations around the globe and examines how human-computer interaction affects various aspects of people's lives. Featuring emergent research from theoretical perspectives and case studies, this book is ideally designed for professionals, students, practitioners, and academicians.

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**SERVICE INTELLIGENCE AND SERVICE SCIENCE: EVOLUTIONARY TECHNOLOGIES AND CHALLENGES**


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**EVOLUTIONARY TECHNOLOGIES AND CHALLENGES**


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*IGI Global* "This book presents the emerging fields of service intelligence and service science, positioning them as the most promising directions for the evolution of service computing, demonstrating the critical role such areas play in supporting service computing processes"--Provided by publisher.

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**FLEXIBLE QUERY ANSWERING SYSTEMS**


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**RECENT ADVANCES PROCEEDINGS OF THE FOURTH INTERNATIONAL CONFERENCE ON FLEXIBLE QUERY ANSWERING SYSTEMS, FQAS' 2000, OCTOBER 25-28, 2000, WARSAW, POLAND**


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*Springer Science & Business Media* This volume constitutes the proceedings of the Fourth International Conference on Flexible Query Answering Systems, FQAS'2000, held in Warsaw, Poland on October 25 - 28, 2000. The FQAS conference has been the premier conference focusing on one of key issues that the information society faces, namely that of providing easy, flexible, intuitive access to information for everybody. In targeting this issue, the conference draws on several research areas, such as databases, querying, information retrieval, knowledge representation, soft computing, cyberspace, multimedia systems, human-computer interaction, etc. FQAS'2000 has been preceded by the extremely successful FQAS'94, FQAS'96 and FQAS'98 conferences all held in Roskilde, Denmark. The present conference provides a unique opportunity for researchers, developers and practitioners to explore new ideas and approaches in a multidisciplinary forum. As a metaphor for flexible query answering we may consider a human intermediary who has expertise in the topic of the query, and is experienced in identifying the user's information needs and answering the needs from the available information resources. The use of knowledge on relevant contexts, available information resources, etc., enables the expert to respond rather precisely to the needs, though the query, per se, may be imprecise, incomplete, etc. Thus, a key issue for flexible query answering system is to obtain, maintain, represent, and utilize such knowledge. This comprises domain knowledge and metaknowledge, its representation and organization in ontologies, terminologies, etc.

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**INTELLIGENCE AND SECURITY INFORMATICS**


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**TECHNIQUES AND APPLICATIONS**


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*Springer Science & Business Media* The IEEE International Conference on Intelligence and Security Informatics (ISI) and Pacific Asia Workshop on Intelligence and Security Informatics (PAISI) conference series (<http://www.isiconference.org>) have drawn significant attention in the recent years. Intelligence and Security Informatics is concerned with the study of the development and use of advanced information technologies and systems for national, international, and societal security-related applications. The ISI conference series have brought together academic researchers, law enforcement and intelligence experts, - formation technology consultant and practitioners to discuss their research and practice related to various ISI topics including ISI data management, data and text mining for ISI applications, terrorism informatics, deception and intent detection, terrorist and criminal social network analysis, public health and bio-security, crime analysis, - ber-infrastructure protection, transportation infrastructure security, policy studies and evaluation, information assurance, among others. In this book, we collect the work of the most active researchers in the area. Topics include data and text mining in terrorism, information sharing, social network analysis, Web-based intelligence monitoring and analysis, crime data analysis, infrastructure protection, deception and intent detection and more. Scope and Organization The book is organized in four major areas. The first unit focuses on the terrorism - formatics and data mining. The second unit discusses the intelligence and crime analysis. The third unit covers access control, infrastructure protection, and privacy. The fourth unit presents surveillance and emergency response.

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**HANDBOOK OF RESEARCH ON FOUNDATIONS AND APPLICATIONS OF INTELLIGENT BUSINESS ANALYTICS**


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*IGI Global* Intelligent business analytics is an emerging technology that has become a mainstream market adopted broadly across industries, organizations, and geographic regions. Intelligent business analytics is a current focus for research and development across academia and industries and must be examined and considered thoroughly so businesses can apply the technology appropriately. The Handbook of Research on Foundations and Applications of Intelligent Business Analytics examines the technologies and applications of intelligent business analytics and discusses the foundations of intelligent analytics such as intelligent mining, intelligent statistical modeling, and machine learning. Covering topics such as augmented analytics and artificial intelligence systems, this major reference work is ideal for scholars, engineers, professors, practitioners, researchers, industry professionals, academicians, and students.

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**DATABASE AND EXPERT SYSTEMS APPLICATIONS**


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**7TH INTERNATIONAL CONFERENCE, DEXA '96, ZURICH, SWITZERLAND, SEPTEMBER 9 - 13, 1996. PROCEEDINGS**


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*Springer Science & Business Media* Content Description #Includes bibliographical references and index.

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## RAPID AUTOMATION: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

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### CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

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*IGI Global* Through expanded intelligence, the use of robotics has fundamentally transformed the business industry. Providing successful techniques in robotic design allows for increased autonomous mobility, which leads to a greater productivity and production level. *Rapid Automation: Concepts, Methodologies, Tools, and Applications* provides innovative insights into the state-of-the-art technologies in the design and development of robotics and their real-world applications in business processes. Highlighting a range of topics such as workflow automation tools, human-computer interaction, and swarm robotics, this multi-volume book is ideally designed for computer engineers, business managers, robotic developers, business and IT professionals, academicians, and researchers.

### ENTERPRISE INFORMATION SYSTEMS, PART II

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#### INTERNATIONAL CONFERENCE, CENTERIS 2010, VIANA DO CASTELO, PORTUGAL, OCTOBER 20-22, 2010, PROCEEDINGS, PART II

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*Springer* This book constitutes the proceedings of the International Conference on ENTERprise information systems, held Viana do Castelo, Portugal, in October 2010.

### INTELLIGENT INFORMATION INTEGRATION FOR THE SEMANTIC WEB

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*Springer Science & Business Media* The semantic Web offers new opportunities for information processes. This book is devoted to the core issue of data integration at the semantic level and demonstrates the applicability of the techniques developed to spatio-temporal representation and reasoning and geographic information systems. Preceded by a motivating introduction and an overview of the state of the art in the field of information integration, fundamental problems of terminological representation, terminological reasoning, and semantic translation are treated in detail. The theoretical results and techniques developed are applied to intelligent conceptual and spatio-temporal queries of heterogeneous geographic information systems.

### HANDBOOK OF RESEARCH ON APPLIED AI FOR INTERNATIONAL BUSINESS AND MARKETING APPLICATIONS

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*IGI Global* Artificial intelligence (AI) describes machines/computers that mimic cognitive functions that humans associate with other human minds, such as learning and problem solving. As businesses have evolved to include more automation of processes, it has become more vital to understand AI and its various applications. Additionally, it is important for workers in the marketing industry to understand how to coincide with and utilize these techniques to enhance and make their work more efficient. The *Handbook of Research on Applied AI for International Business and Marketing Applications* is a critical scholarly publication that provides comprehensive research on artificial intelligence applications within the context of international business. Highlighting a wide range of topics such as diversification, risk management, and artificial intelligence, this book is ideal for marketers, business professionals, academicians, practitioners, researchers, and students.

### DSS 2.0 - SUPPORTING DECISION MAKING WITH NEW TECHNOLOGIES

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*IOS Press* Advances in technology have resulted in new and advanced methods to support decision-making. For example, artificial intelligence has enabled people to make better decisions through the use of Intelligent Decision Support Systems (DSS). Emerging research in DSS demonstrates that decision makers can operate in a more timely manner using real-time data, more accurately due to data mining and 'big data' methods, more strategically by considering a greater number of factors, more precisely and inclusively due to the availability of social networking data, and with a wider media reach with video and audio technology. This book presents the proceedings of the IFIP TC8/Working Group 8.3 conference held at the Université Pierre et Marie Curie in Paris, France, in June 2014. Throughout its history the conference has aimed to present the latest innovations and achievements in Decision Support Systems. This year the conference looks to the next generation with the theme of new technologies to enable DSS 2.0. The topics covered include theoretical, empirical and design science research; case-based approaches in decision support systems; decision models in the real-world; healthcare information technology; decision making theory; knowledge management; knowledge and resource discovery; business intelligence; group decision support systems; collaborative decision making; analytics and 'big data'; rich language for decision support; multimedia tools for DSS; Web 2.0 systems in decision support; context-based technologies for decision making; intelligent systems and technologies in decision support; organizational decision support; research methods in DSS 2.0; mobile DSS; competing on analytics; and social media analytics. The book will be of interest to all those who develop or use Decision Support Systems. The variety of methods and applications illustrated by this international group of carefully reviewed papers should provide ideas and directions for future researchers and practitioners alike.

### ROUGH SETS AND CURRENT TRENDS IN COMPUTING

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#### 4TH INTERNATIONAL CONFERENCE, RSCTC 2004, UPPSALA, SWEDEN, JUNE 1-5, 2004, PROCEEDINGS

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*Springer Science & Business Media* In recent years rough set theory has attracted the attention of many researchers and practitioners all over the world, who have contributed essentially to its development and applications. We are observing a growing research interest in the foundations of rough sets, including the various logical, mathematical and philosophical aspects of rough sets. Some relationships have already been established between rough sets and other approaches, and also with a wide range of hybrid systems. As a result, rough sets are linked with decision system modeling and analysis of complex systems, fuzzy sets, neural networks, evolutionary computing, data mining and knowledge discovery, pattern recognition, machine learning, and approximate reasoning. In particular, rough sets are used in probabilistic reasoning, granular computing (including information granule calculi based on rough mereology), intelligent control, intelligent agent modeling, identification of autonomous systems, and process specification. Methods based on rough set theory alone or in combination with other approaches have been discovered with a wide range of applications in such areas as: acoustics, bioinformatics, business and finance, chemistry, computer engineering (e.g., data compression, digital image processing, digital signal processing, parallel and distributed computer systems, sensor fusion, fractal engineering), decision analysis and systems, economics, electrical engineering (e.g., control, signal analysis, power systems), environmental studies, informatics, medicine, molecular biology, musicology, neurology, robotics, social science, software engineering, spatial visualization, Web engineering, and Web mining.

### THE HANDBOOK OF FRAUD DETERRENCE

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*John Wiley & Sons* The Handbook of Fraud Deterrence encompasses the applicable professional standards and common applications for forensic accounting, fraud deterrence, and fraud investigation services. It is the first book that explains fraud deterrence through internal control improvement within the structure of forensic accounting procedures.

### DATABASE SYSTEMS FOR ADVANCED APPLICATIONS

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#### 16TH INTERNATIONAL CONFERENCE, DASFAA 2011 INTERNATIONAL WORKSHOPS: GDB, SIM3, FLASHDB, SNSMW, DAMEN, DQIS, HONG KONG, CHINA, APRIL 22-25, 2011, PROCEEDINGS

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*Springer* This book constitutes the workshop proceedings of the 16th International Conference on Database Systems for Advanced Applications, DASFAA 2011, held in Hong Kong, China, in April 2011. The volume contains six workshops, each focusing on specific research issues that contribute to the main themes of the DASFAA conference: The First International Workshop on Graph-structured Data Bases (GDB 2011); the First International Workshop on Spatial Information Modeling, Management and Mining (SIM3 2011); the International Workshop on Flash-based Database Systems (FlashDB 2011); the Second International Workshop on Social Networks and Social Media Mining on the Web (SNSMW 2011); the First International Workshop on Data Management for Emerging Network Infrastructures (DaMEN 2011); and the Fourth International Workshop on Data Quality in Integration Systems (DQIS 2011).

### COOPERATIVE INFORMATION AGENTS XII

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#### 12TH INTERNATIONAL WORKSHOP, CIA 2008, PRAGUE, CZECH REPUBLIC, SEPTEMBER 10-12, 2008, PROCEEDINGS

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*Springer Science & Business Media* These are the proceedings of the 12th international workshop on cooperative information agents (CIA2008), held at the Czech Technical University in Prague, Czech Republic, on September 10-12, 2008. In today's world of ubiquitously connected heterogeneous information systems, business services and computing devices, the intelligent coordination and provision of relevant added-value information or services to the user at any time, anywhere is of key importance to a variety of applications. This challenge is envisioned to be coped with by means of appropriate intelligent and cooperative information agents. An intelligent information agent is a computational software entity that is capable of accessing one or multiple, potentially heterogeneous and distributed information sources, proactively acquiring, mediating, and maintaining relevant information or services on behalf of its human users, or other agents, preferably just in time and anywhere. One key challenge of developing intelligent and cooperative information systems is to balance the autonomy of networked data, information, and knowledge sources with the potential payoff of leveraging them by the appropriate use of such agents. Research on intelligent information agents and systems is inherently cross-disciplinary covering themes from domains such as AI, Multiagent Systems, HCI, Semantic Web Technologies, Web Services, Information Systems, Knowledge Discovery, Information Retrieval, and P2P Computing.

### AGENT-ORIENTED INFORMATION SYSTEMS 2001

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*BoD - Books on Demand*

### INTERACTIVE KNOWLEDGE DISCOVERY AND DATA MINING IN BIOMEDICAL INFORMATICS

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### STATE-OF-THE-ART AND FUTURE CHALLENGES

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*Springer* One of the grand challenges in our digital world are the large, complex and often weakly structured data sets, and massive amounts of unstructured information. This "big data" challenge is most evident in biomedical informatics: the trend towards precision medicine has resulted in an explosion in the amount of generated biomedical data sets. Despite the fact that human experts are very good at pattern recognition in dimensions of  $n=3$ ; most of the data is high-dimensional, which makes manual analysis often impossible and neither the medical doctor nor the biomedical researcher can memorize all these facts. A synergistic combination of methodologies and approaches of two fields offer ideal conditions towards unraveling these problems: Human-Computer Interaction (HCI) and Knowledge Discovery/Data Mining (KDD), with the goal of supporting human capabilities with machine learning. This state-of-the-art survey is an output of the HCI-KDD expert network and features 19 carefully selected and reviewed papers related to seven hot and promising research areas: Area 1: Data Integration, Data Pre-processing and Data Mapping; Area 2: Data Mining Algorithms; Area 3: Graph-based

Data Mining; Area 4: Entropy-Based Data Mining; Area 5: Topological Data Mining; Area 6 Data Visualization and Area 7: Privacy, Data Protection, Safety and Security.

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## **RULES IN DATABASE SYSTEMS**

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### **THIRD INTERNATIONAL WORKSHOP, RIDS '97, SKÖVDE, SWEDEN, JUNE 26-28, 1997 PROCEEDINGS**

*Springer Science & Business Media* This book constitutes the strictly refereed post-workshop proceedings of the Third International Workshop on Rules in Database Systems, RIDS '97, held in Skövde, June 1997. The 13 revised papers presented in the book were carefully reviewed and selected from 33 submissions. The book documents the state-of-the art in the area. The papers are devoted to deductive databases, active database systems architectures, events in workflow management, rule modelling and simulation, rule confluence, rule termination analysis, rule testing and validation, active database systems design.

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## **INTERNATIONAL ENCYCLOPEDIA OF HOSPITALITY MANAGEMENT 2ND EDITION**

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*Routledge* The International Encyclopedia of Hospitality Management is the definitive reference work for any individual studying or working in the hospitality industry. There are 185 Hospitality Management degrees in the UK alone. This new edition updates and significantly revises twenty five per cent of the entries and has an additional twenty new entries. New online material makes it the most up-to-date and accessible hospitality management encyclopedia on the market. It covers all of the relevant issues in the field of hospitality management from a sectoral level (lodging, restaurants/food service, time-share, clubs and events) as well as a functional one (accounting and finance, marketing, strategic management, human resources, information technology and facilities management). Its unique, user-friendly structure enables readers to find exactly the information they require at a glance - whether they require broad detail that takes a more cross-sectional view across each subject field or more focused information that looks closely at specific topics and issues within the hospitality industry today.

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## **IMPROVING HEALTH MANAGEMENT THROUGH CLINICAL DECISION SUPPORT SYSTEMS**

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*IGI Global* In an effort to combat human error in the medical field, medical professionals continue to seek the best practices and technology applications for the diagnosis, treatment, and overall care of their patients. Improving Health Management through Clinical Decision Support Systems brings together a series of chapters focused on the technology, funding, and future plans for improved organization and decision-making through medical informatics. Featuring timely, research-based chapters on topics including, but not limited to, data management, information security, and the benefits of technology-based medicine, this publication is an essential reference source for clinicians, scientists, health economists, policymakers, academicians, researchers, advanced level students, and government officials interested in health information technology.

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## **FUZZY LOGIC AND ITS APPLICATIONS TO ENGINEERING, INFORMATION SCIENCES, AND INTELLIGENT SYSTEMS**

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*Springer Science & Business Media* Fuzzy technology has emerged as one of the most exciting new concepts available. Fuzzy Logic and its Applications... covers a wide range of the theory and applications of fuzzy logic and related systems, including industrial applications of fuzzy technology, implementing human intelligence in machines and systems. There are four main themes: intelligent systems, engineering, mathematical foundations, and information sciences. Both academics and the technical community will learn how and why fuzzy logic is appreciated in the conceptual, design and manufacturing stages of intelligent systems, gaining an improved understanding of the basic science and the foundations of human reasoning.

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## **INTELLIGENT KNOWLEDGE-BASED SYSTEMS**

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### **BUSINESS AND TECHNOLOGY IN THE NEW MILLENNIUM**

*Springer Science & Business Media* This five-volume set clearly manifests the great significance of these key technologies for the new economies of the new millennium. The discussions provide a wealth of practical ideas intended to foster innovation in thought and, consequently, in the further development of technology. Together, they comprise a significant and uniquely comprehensive reference source for research workers, practitioners, computer scientists, academics, students, and others on the international scene for years to come.

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## **ADVANCES IN INTELLIGENT INFORMATION AND DATABASE SYSTEMS**

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*Springer Science & Business Media* Intelligent information and database systems are two closely related and well-established subfields of modern computer science. They focus on the integration of artificial intelligence and classic database technologies in order to create the class of next generation information systems. The major target of this new generation of systems is to provide end-users with intelligent behavior: simple and/or advanced learning, problem solving, uncertain and certain reasoning, self-organization, cooperation, etc. Such intelligent abilities are implemented in classic information systems to make them autonomous and user oriented, in particular when advanced problems of multimedia information and knowledge discovery, access, retrieval and manipulation are to be solved in the context of large, distributed and heterogeneous environments. It means that intelligent knowledge-based information and database systems are used to solve basic problems of large collections management, carry out knowledge discovery from large data collections, reason about information under uncertain conditions, support users in their formulation of complex queries etc. Topics discussed in this volume include but are not limited to the foundations and principles of data, information, and knowledge models, methodologies for intelligent information and database systems analysis, design, implementation, validation, maintenance and evolution.

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## **FLEXIBLE QUERY ANSWERING SYSTEMS**

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### **5TH INTERNATIONAL CONFERENCE, FQAS 2002. COPENHAGEN, DENMARK, OCTOBER 27-29, 2002, PROCEEDINGS**

*Springer Science & Business Media* This book constitutes the refereed proceedings of the 5th International Conference on Flexible Query Answering Systems, FQAS 2002, held in Copenhagen, Denmark, in October 2002. The 29 revised full papers presented were carefully reviewed and selected for inclusion in the proceedings. Among the fields covered are database management, information retrieval, domain modeling, knowledge representation and ontologies, knowledge discovery and data mining, artificial intelligence, classical and nonclassical logics, computational linguistics, natural language processing, multimedia information systems, and human-computer interaction.

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## **THE SEMANTIC WEB - ISWC 2002**

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### **FIRST INTERNATIONAL SEMANTIC WEB CONFERENCE, SARDINIA, ITALY, JUNE 9-12, 2002, PROCEEDINGS**

*Springer Science & Business Media* This book constitutes the refereed proceedings of the First International Semantic Web Conference, ISWC 2002, held in Sardinia, Italy, in June 2002. The 27 revised full research papers, 6 position papers, and 7 system descriptions presented were carefully reviewed and selected from a total of 133 submissions. All current issues in this exciting new field are addressed, ranging from theoretical aspects to applications in various fields.

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## **FUZZY SETS IN APPROXIMATE REASONING AND INFORMATION SYSTEMS**

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*Springer Science & Business Media* Approximate reasoning is a key motivation in fuzzy sets and possibility theory. This volume provides a coherent view of this field, and its impact on database research and information retrieval. First, the semantic foundations of approximate reasoning are presented. Special emphasis is given to the representation of fuzzy rules and specialized types of approximate reasoning. Then syntactic aspects of approximate reasoning are surveyed and the algebraic underpinnings of fuzzy consequence relations are presented and explained. The second part of the book is devoted to inductive and neuro-fuzzy methods for learning fuzzy rules. It also contains new material on the application of possibility theory to data fusion. The last part of the book surveys the growing literature on fuzzy information systems. Each chapter contains extensive bibliographical material. Fuzzy Sets in Approximate Reasoning and Information Systems is a major source of information for research scholars and graduate students in computer science and artificial intelligence, interested in human information processing.

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## **INTELLIGENT DATA ENGINEERING AND AUTOMATED LEARNING -- IDEAL 2011**

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### **12TH INTERNATIONAL CONFERENCE, NORWICH, UK, SEPTEMBER 7-9, 2011. PROCEEDINGS**

*Springer Science & Business Media* This book constitutes the refereed proceedings of the 12th International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2011, held in Norwich, UK, in September 2011. The 59 revised full papers presented were carefully reviewed and selected from numerous submissions for inclusion in the book and present the latest theoretical advances and real-world applications in computational intelligence.

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## **FOUNDATIONS OF INTELLIGENT SYSTEMS**

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### **10TH INTERNATIONAL SYMPOSIUM, ISMIS '97. CHARLOTTE, NORTH CAROLINA, USA, OCTOBER 15-18, 1997. PROCEEDINGS**

*Springer Science & Business Media* This book constitutes the refereed proceedings of the 10th International Symposium on Methodologies for Intelligent Systems, ISMIS'97, held in Charlotte, NC, USA, in October 1997. The 57 revised full papers were selected from a total of 117 submissions. Also included are four invited papers. Among the topics covered are intelligent information systems, approximate reasoning, evolutionary computation, knowledge representation and integration, learning and knowledge discovery, AI-Logics, discovery systems, data mining, query processing, etc.