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Sales in The Age of Intelligent Web Programming Collective Intelligence Semantic Web for the Working Ontologist Intelligent Information Processing Advances in Internet and World Wide Web Research and Application: 2012 Edition Building an Intelligent Web: Theory and Practice Advanced Web Services The Personal Web The Semantic Web ENTERprise Information Systems, Part II Apple Pro Training Series Smart Innovation of Web of Things The Smart Internet Handbook of Research on Web 2.0, 3.0, and X.0: Technologies, Business, and Social Applications Emerging Technologies in Data Mining and Information Security Advances in Pacific Basin Business, Economics and Finance Brandial '06 Computational Web Intelligence Producing for the Web Knowledge-Based and Intelligent Information and Engineering Systems Knowledge Science, Engineering and Management Computers Helping People with Special Needs Head First Servlets and JSP ECIE 2019 14th European Conference on Innovation and Entrepreneurship (2 vols) Website Design and Development with HTML5 and CSS3 Intelligent Knowledge-Based Systems Internet of Things Advances in Communication, Devices and Networking Natural Language Processing and Information Systems Proceedings of the International Conference on Intelligent Computing, Communication and Information Security Smart Education and Smart e-Learning Collective Intelligence in Action Hands-On Python Deep Learning for the Web Proceedings of the First International Conference on Web Information Systems Engineering Web Reasoning and Rule Systems Intelligent Instrumentation Computers, Networks, Systems, and Industrial Engineering 2011 Knowing What Students Know Computational Intelligence and Its Applications Algorithmic Aspects of Cloud Computing

In today's rapidly evolving business landscape, many sales professionals have faced with unprecedented challenges and opportunities brought about by the integration of intelligent web technologies. This book serves as a comprehensive guide to understanding and harnessing the power of intelligent web tools and strategies to excel in the field of sales. The emergence of the intelligent web, fueled by advancements in artificial intelligence, machine learning, and data analytics, has revolutionized the way we conduct sales. This new era brings forth a wealth of possibilities, enabling us to leverage vast amounts of data, personalize customer interactions, automate processes, and gain valuable insights for effective decision-making. Throughout these chapters, I provided topics such as the evolution of sales in the age of intelligent web, understanding intelligent web technologies, personalization and customization in sales, sales automation and efficiency, sales intelligence and data analytics, social selling, sales funnel optimization, sales performance management, customer relationship management (CRM) in the intelligent web era, and much more. You will read practical insights, real-world examples, and actionable strategies that can be applied in day-to-day sales activities. I have also taken into account the ethical considerations and challenges associated with the use of intelligent web

technologies, emphasizing the importance of maintaining transparency, fairness, and trust in my sales processes. It is my sincere hope that this book serves as a valuable resource and guide in navigating the new frontier of sales in the age of intelligent web. I invite you to explore the chapters, and discover the transformative potential of intelligent web technologies in shaping the future of sales. Remember, in this ever-evolving landscape, continuous learning and adaptation are key to staying ahead. This book constitutes the refereed proceedings of the First International Conference on Web Reasoning and Rule Systems, RR 2007, held in Innsbruck, Austria. It address all current topics in Web reasoning and rule systems, including acquisition of rules and ontologies by knowledge extraction, design and analysis of reasoning languages, reasoning with constraints, rule languages and systems, semantic Web services modeling and applications. This book contains the contributions presented at the 2nd international KES conference on Smart Education and Smart e-Learning, which took place in Sorrento, Italy, June 17-19, 2015. It contains a total of 45 peer-reviewed book chapters that are grouped into several parts: Part 1 - Smart Education, Part 2 – Smart Educational Technology, Part 3 – Smart e-Learning, Part 4 – Smart Professional Training and Teachers ' Education, and Part 5 – Smart Teaching and Training related Topics. This book can be a useful source of research data and valuable information for faculty, scholars, Ph.D. students, administrators, and practitioners - those who are interested in innovative areas of smart education and smart e-learning. The two volumes LNCS 10249 and 10250 constitute the refereed proceedings of the 14th International Semantic Web Conference, ESWC 2017, held in Portoro ž , Slovenia. The 51 revised full papers presented were carefully reviewed and selected from 183 submissions. In addition, 10 PhD papers are included, selected out of 14 submissions. The papers are organized in the following tracks: semantic data management, big data, and scalability; linked data; machine learning; mobile web, sensors, and semantic streams; natural language processing and information retrieval; vocabularies, schemas, and ontologies; reasoning; social web and web science; semantic web and transparency; in use and industrial track; and PhD symposium. Advances in Internet and World Wide Web Research and Application / 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Internet and World Wide Web. The editors have built Advances in Internet and World Wide Web Research and Application / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Internet and World Wide Web in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Internet and World Wide Web Research and Application / 2012 Edition has been produced by the world ' s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/. Web services and Service-Oriented Computing (SOC) have become thriving areas of academic research, joint university/industry research projects, and novel IT products on the market. SOC is the computing paradigm that uses Web services as building blocks for the engineering of composite, distributed applications out of the reusable application logic encapsulated by Web services. Web

services could be considered the best-known and most standardized technology in use today for distributed computing over the Internet. This book is the second installment of a two-book collection covering the state-of-the-art of both theoretical and practical aspects of Web services and SOC research and deployments. Advanced Web Services specifically focuses on advanced topics of Web services and SOC and covers topics including Web services transactions, security and trust, Web service management, real-world case studies, and novel perspectives and future directions. The editors present foundational topics in the first book of the collection, Web Services Foundations (Springer, 2013). Together, both books comprise approximately 1400 pages and are the result of an enormous community effort that involved more than 100 authors, comprising the world ' s leading experts in this field. Producing for the Web is a clear and practical guide to the planning, setting up and management of a web site. It gives readers a comprehensive overview of the current technologies available for on-line communications and shows how to use then for maximum effect when planning a web site. Producing for the Web sets out the practical toolkit that a web producer will require to create their site, from web and image editors to information processing and programme applications. Supported by a regularly updated and comprehensive web site, Producing for the Web includes: * an introduction to the Internet and the World Wide Web * illustrated examples of good page design and site content * on-line support, tutorials and information on latest technologies * advice on content, maintenance and how to use sites effectively * how best to maximise available programmes and applications * tips on writing and style * a discussion about ethics and regulation * an extensive list of resources and Internet terminology. 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. Now fully updated for version 1.5, this comprehensive book-DVD combo starts with the basics of image management and takes you step by step all the way through Aperture's powerful photo-editing, image-retouching, proofing, publishing, and archiving features. Version 1.5's new features are completely covered, including the new image editing tools, expanded search capabilities, new Loupe tool, and support for many more RAW file formats. It delivers comprehensive training - the equivalent of a two-day course - in one project-based book. You'll learn time-saving techniques for sorting, ranking, and organizing images for use in different jobs, and effective ways to display images for client review, apply metadata, keep your online portfolio up to date automatically, color-manage your workflow from input to final print, and much more. Real-world exercises feature professional photography from a variety of genres, including fashion, sports, wedding, commercial, and portraiture. All the files you need to complete the exercises are included on the DVD. The proceedings of the June 2000 conference are documented in two separate volumes for the main program and the workshops. The first volume contains 65 papers that report recent results in the design, development, and management of web-based information systems. The main subjects are databases, XML This book grew out of the First Symposium on the Personal Web, co-located with CASCON 2010 in Markham,

Ontario, Canada. The purpose of the symposium was to bring together prominent researchers and practitioners from a diverse range of research areas relevant to the advancement of science and practice relating to the Personal Web. Research on the Personal Web is an outgrowth of the Smart Internet initiative, which seeks to extend and transform the web to be centred on the user, with the web as a calm platform ubiquitously providing cognitive support to its user and his or her tasks. As with the preceding SITCON workshop (held at CASCON 2009), this symposium involved a multi-disciplinary effort that brought together researchers and practitioners in data integration; web services modelling and architecture; human-computer interaction; predictive analytics; cloud infrastructure; semantics and ontology; and industrial application domains such as health care and finance. The discussions during the symposium dealt with different aspects of the architecture and functionality needed to make the Personal Web a reality. After the symposium the authors reworked their presentations into draft chapters that were submitted for peer evaluation and review. Every chapter went through two rounds of reviewing by at least two independent expert reviewers, and accepted chapters were then revised and are presented in this book. 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! Internet of Things: Challenges, Advances, and Applications provides a comprehensive introduction to IoT, related technologies, and common issues in the adoption of IoT on a large scale. It surveys recent technological advances and novel solutions for challenges in the IoT environment. Moreover, it provides detailed discussion of the utilization of IoT and its underlying technologies in critical application areas, such as smart grids, healthcare, insurance, and the automotive industry. The chapters of this book are authored by several international researchers and industry experts. This book is composed of 18 self-contained chapters that can be read, based on interest. Features: Introduces IoT, including its history, common definitions, underlying technologies, and challenges Discusses technological advances in IoT and implementation considerations Proposes novel solutions for common implementation issues Explores critical application domains, including large-scale electric power distribution networks, smart water and gas grids, healthcare and e-Health applications, and the insurance and automotive industries The book is an excellent reference for researchers and post-graduate students working in the area of IoT, or related areas. It also targets IT professionals interested in gaining deeper knowledge of IoT, its challenges, and application areas. This book constitutes the refereed proceedings of the 6 th International Conference on Knowledge Science, Engineering and Management, KSEM 2013, held in Dalian City, China, in August 2013. The 50 revised papers (33 regular papers, 18 short papers, and

keynote and invited talks) were carefully reviewed and selected from various submissions. This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2018) held at the University of Engineering & Management, Kolkata, India, on February 23 – 25, 2018. It comprises high-quality research work by academicians and industrial experts in the field of computing and communication, including full-length papers, research-in-progress papers, and case studies related to all the areas of data mining, machine learning, Internet of Things (IoT) and information security. This book includes the papers presented at the fifth International Conference on Application of Natural Language to Information Systems (NLDB 2000) which was held in Versailles (France) on June 28-30. Following NLDB95 in Versailles, NLDB96 i n Amsterdam, NLDB97 i n Vancouver, and NLDB99 i n Klagenfurt, NLDB 2000 was a forum for exchanging new research results and trends on the benefits of integrating Natural Language resources in Information System Engineering. Since the first NLDB workshop in 1995 it has become apparent that each aspect of an information system life cycle may be improved by natural language techniques: database design (specification, validation, conflict resolution), database query languages, and application programming that use new software engineering research (natural language program specifications). As information systems are now evolving into the communication area, the term databases should be considered in the broader sense of information and communication systems. The main new trend in NLDB 2000 is related to the WEB wave: WEB querying, WEB answering, and information retrieval. Among 47 papers submitted from 18 countries, the program committee selected 29 papers to be presented during the conference. Besides these regular papers, two invited talks (given by Pr. Reind P. van de Riet and Pr. Maurice Gross), and a set of posters and demonstrations are also included in these proceedings. Advances in Pacific Basin Business, Economics and Finance (APBBEF) is an annual series designed to focus on interdisciplinary research in finance, economics, and management among Pacific Rim countries. All articles published are reviewed and recommended by at least two members of the editorial board. This book constitutes the refereed proceedings of the 6th IFIP TC 5 International Conference on Computational Intelligence and Its Applications, CIIA 2018, held in Oran, Algeria, in May 2018. The 56 full papers presented were carefully reviewed and selected from 202 submissions. They are organized in the following topical sections: data mining and information retrieval; evolutionary computation; machine learning; optimization; planning and scheduling; wireless communication and mobile computing; Internet of Things (IoT) and decision support systems; pattern recognition and image processing; and semantic web services. There's a great deal of wisdom in a crowd, but how do you listen to a thousand people talking at once? Identifying the wants, needs, and knowledge of internet users can be like listening to a mob. In the Web 2.0 era, leveraging the collective power of user contributions, interactions, and feedback is the key to market dominance. A new category of powerful programming techniques lets you discover the patterns, inter-relationships, and individual profiles-the collective intelligence--locked in the data people leave behind as they surf websites, post blogs, and interact with other users. Collective Intelligence in Action is a hands-on guidebook for implementing collective intelligence concepts using Java. It is the first Java-based book to emphasize the underlying algorithms and technical implementation of vital data

gathering and mining techniques like analyzing trends, discovering relationships, and making predictions. It provides a pragmatic approach to personalization by combining content-based analysis with collaborative approaches. This book is for Java developers implementing Collective Intelligence in real, high-use applications. Following a running example in which you harvest and use information from blogs, you learn to develop software that you can embed in your own applications. The code examples are immediately reusable and give the Java developer a working collective intelligence toolkit. Along the way, you work with, a number of APIs and open-source toolkits including text analysis and search using Lucene, web-crawling using Nutch, and applying machine learning algorithms using WEKA and the Java Data Mining (JDM) standard. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. Education is a hot topic. From the stage of presidential debates to tonight's dinner table, it is an issue that most Americans are deeply concerned about. While there are many strategies for improving the educational process, we need a way to find out what works and what doesn't work as well. Educational assessment seeks to determine just how well students are learning and is an integral part of our quest for improved education. The nation is pinning greater expectations on educational assessment than ever before. We look to these assessment tools when documenting whether students and institutions are truly meeting education goals. But we must stop and ask a crucial question: What kind of assessment is most effective? At a time when traditional testing is subject to increasing criticism, research suggests that new, exciting approaches to assessment may be on the horizon. Advances in the sciences of how people learn and how to measure such learning offer the hope of developing new kinds of assessments-assessments that help students succeed in school by making as clear as possible the nature of their accomplishments and the progress of their learning. Knowing What Students Know essentially explains how expanding knowledge in the scientific fields of human learning and educational measurement can form the foundations of an improved approach to assessment. These advances suggest ways that the targets of assessment-what students know and how well they know it-as well as the methods used to make inferences about student learning can be made more valid and instructionally useful. Principles for designing and using these new kinds of assessments are presented, and examples are used to illustrate the principles. Implications for policy, practice, and research are also explored. With the promise of a productive research-based approach to assessment of student learning, Knowing What Students Know will be important to education administrators, assessment designers, teachers and teacher educators, and education advocates. I love the idea of a Smart Internet that lets users improve many parts of their lives, pulling together data and services from around the internet. This won ’ t happen with large unwieldy programming requirements. . . it will happen because we ’ re moving towards integrated, simple tasks that users can do on an every day basis. With services available on the cloud, with analytics available, with data that has meaning to the user and not just to some protocol parser - with all of these, users at all levels will be able to do a better job. The users may be small and large enterprises, local governments, individuals, etc. All of this means that as the world is becoming more intelligent, instrumented and more interconnected, we ’ ll be headed towards smarter health care, smarter cities, and smarter lives. ” — Gennaro A. Cuomo, IBM Software Group Vice President and IBM Fellow, WebSphere

Chief Technology O?cer Congratulations to the team on the publication of this ?rst volume of the IBM CASResearchbookseries!Thisisasigni?cantmilestoneforIBMCASResearch. This series not only captures the innovations resulting from the collaboration acrossIBM technical leaders,IBM CAS faculty members, as well as our network of distinguished academic partners, it also lays the foundation for ongoing c- mercialization of future research initiatives. This book contains high quality research papers accepted and presented at the International Conference on Intelligent Computing, Communication and Information Security (ICICCIS 2022), organized by Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur, India during 25-26, November 2022. It presents the solutions of issues and challenges in intelligent computing, communication and information security domains. This book provides a background to problem domains, considering the progress so far, assessing the potential of such approaches, and exploring possible future directions as a single readily accessible source. The four-volume set LNAI 6276--6279 constitutes the refereed proceedings of the 14th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, KES 2010, held in Cardiff, UK, in September 2010. The 272 revised papers presented were carefully reviewed and selected from 360 submissions. They present the results of high-quality research on a broad range of intelligent systems topics. This book constitutes the thoroughly refereed post-conference proceedings of the Second International Workshop on Algorithmic Aspects of Cloud Computing, ALGOCLOUD 2016, held in Aarhus, Denmark, in August 2016. The 11 revised full papers presented together with one tutorial paper were carefully reviewed and selected from 30 initial submissions. They deal with the following topics: algorithmic aspects of elasticity and scalability for distributed, large-scale data stores (e.g. NoSQL and columnar databases); search and retrieval algorithms for cloud infrastructures; monitoring and analysis of elasticity for virtualized environments; NoSQL, schemaless data modeling, integration; caching and load-balancing; storage structures and indexing for cloud databases; new algorithmic aspects of parallel and distributed computing for cloud applications; scalable machine learning, analytics and data science; high availability, reliability, failover; transactional models and algorithms for cloud databases; query languages and processing programming models; consistency, replication and partitioning CAP, data structures and algorithms for eventually consistent stores. The two-volume set LNCS 8547 and 8548 constitutes the refereed proceedings of the 14th International Conference on Computers Helping People with Special Needs, ICCHP 2014, held in Paris, France, in July 2014. The 132 revised full papers and 55 short papers presented were carefully reviewed and selected from 362 submissions. The papers included in the first volume are organized in the following topical sections: accessible media; digital content and media accessibility; 25 years of the Web: weaving accessibility; towards e-inclusion for people with intellectual disabilities; the impact of PDF/UA on accessible PDF; accessibility of non-verbal communication; emotions for accessibility (E4A), games and entertainment software; accessibility and therapy; implementation and take-up of e-accessibility; accessibility and usability of mobile platforms for people with disabilities and elderly persons; portable and mobile platforms for people with disabilities and elderly persons; people with cognitive disabilities: At, ICT and AAC; autism: ICT and AT; access to mathematics, science and music and blind and visually impaired people: AT, HCI and accessibility. This book constitutes the proceedings of the International

Conference on ENTERprise information systems, held Viana do Castelo, Portugal, in October 2010. Use the power of deep learning with Python to build and deploy intelligent web applications Key FeaturesCreate next-generation intelligent web applications using Python libraries such as Flask and DjangoImplement deep learning algorithms and techniques for performing smart web automationIntegrate neural network architectures to create powerful full-stack web applicationsBook Description When used effectively, deep learning techniques can help you develop intelligent web apps. In this book, you'll cover the latest tools and technological practices that are being used to implement deep learning in web development using Python. Starting with the fundamentals of machine learning, you'll focus on DL and the basics of neural networks, including common variants such as convolutional neural networks (CNNs). You'll learn how to integrate them into websites with the frontends of different standard web tech stacks. The book then helps you gain practical experience of developing a deep learning-enabled web app using Python libraries such as Django and Flask by creating RESTful APIs for custom models. Later, you'll explore how to set up a cloud environment for deep learning-based web deployments on Google Cloud and Amazon Web Services (AWS). Next, you'll learn how to use Microsoft's intelligent Emotion API, which can detect a person's emotions through a picture of their face. You'll also get to grips with deploying real-world websites, in addition to learning how to secure websites using reCAPTCHA and Cloudflare. Finally, you'll use NLP to integrate a voice UX through Dialogflow on your web pages. By the end of this book, you'll have learned how to deploy intelligent web apps and websites with the help of effective tools and practices. What you will learnExplore deep learning models and implement them in your browserDesign a smart web-based client using Django and FlaskWork with different Python-based APIs for performing deep learning tasksImplement popular neural network models with TensorFlow.jsDesign and build deep web services on the cloud using deep learningGet familiar with the standard workflow of taking deep learning models into productionWho this book is for This deep learning book is for data scientists, machine learning practitioners, and deep learning engineers who are looking to perform deep learning techniques and methodologies on the web. You will also find this book useful if you ' re a web developer who wants to implement smart techniques in the browser to make it more interactive. Working knowledge of the Python programming language and basic machine learning techniques will be beneficial. The book provides insights of International Conference in Communication, Devices and Networking (ICCDN 2017) organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India during 3 – 4 June, 2017. The book discusses latest research papers presented by researchers, engineers, academicians and industry professionals. It also assists both novice and experienced scientists and developers, to explore newer scopes, collect new ideas and establish new cooperation between research groups and exchange ideas, information, techniques and applications in the field of electronics, communication, devices and networking. The Web of Things (WoT) is a concept that describes approaches, programming tools and software architectural systems, which interface networks of real-world objects with the World Wide Web. The book is organized into 11 chapters, each focusing on a unique wireless technological aspect of the Web of Things, and it aims to comprehensively cover each of its various applications, including: A strong emphasis on WoT

problems and solutions, identifying the main open issues, innovations and latest technologies behind WoT A blend of theoretical and simulation-based problems for better understanding of the concepts behind WoT Various exemplifying applications in which the use of WoT is very attractive and an inspiration for future applications The book will be useful to researchers, software developers and undergraduate and postgraduate students, as well as practitioners. This review volume introduces the novel intelligent Web theory called computational Web intelligence (CWI) based on computational intelligence (CI) and Web technology (WT). It takes an in-depth look at hybrid Web intelligence (HWI), which is based on artificial biological and computational intelligence with Web technology and is used to build hybrid intelligent Web systems that serve wired and wireless users more efficiently. The basic principles of CWI and various e-applications of CWI and HWI are discussed. For completeness, six major CWI techniques — fuzzy Web intelligence, neural Web intelligence, evolutionary Web intelligence, granular Web intelligence, rough Web Intelligence and probabilistic Web intelligence — are described. With the huge potential for intelligent e-business applications of CWI and HWI, these techniques represent the future of intelligent Web applications. Contents:Fuzzy Web Intelligence, Rough Web Intelligence and Probabilistic Web IntelligenceNeural Web Intelligence, Evolutionary Web Intelligence and Granular Web IntelligenceHybrid Web Intelligence and E-Applications Readership: Graduate students, researchers and professionals in artificial intelligence and fuzzy logic. Keywords:Computational Web Intelligence;Web Intelligence;Computational Intelligence;Soft Computing;Granular Computing;Fuzzy Logic;Neural Networks;Evolutionary Computation;Rough Sets;E-BusinessKey Features:Completely introduces the intelligent Web techniques based on soft computing, granular computing, computational intelligence, and Web technology for different intelligent Web applicationsFirst to introduce the novel intelligent Web theory (computational Web intelligence) with many potential intelligent Web applicationsIntroduces CWI techniques for currently hot and important applications such as Web security, Internet security, bioinformatics, Web search engines, Web mining, e-commerce, intelligent Web agents, etc. Semantic Web for the Working Ontologist: Effective Modeling in RDFS and OWL, Second Edition, discusses the capabilities of Semantic Web modeling languages, such as RDFS (Resource Description Framework Schema) and OWL (Web Ontology Language). Organized into 16 chapters, the book provides examples to illustrate the use of Semantic Web technologies in solving common modeling problems. It uses the life and works of William Shakespeare to demonstrate some of the most basic capabilities of the Semantic Web. The book first provides an overview of the Semantic Web and aspects of the Web. It then discusses semantic modeling and how it can support the development from chaotic information gathering to one characterized by information sharing, cooperation, and collaboration. It also explains the use of RDF to implement the Semantic Web by allowing information to be distributed over the Web, along with the use of SPARQL to access RDF data. Moreover, the reader is introduced to components that make up a Semantic Web deployment and how they fit together, the concept of inferencing in the Semantic Web, and how RDFS differs from other schema languages. Finally, the book considers the use of SKOS (Simple Knowledge Organization System) to manage vocabularies by taking advantage of the inferencing structure of RDFS-Plus. This book is intended for the

working ontologist who is trying to create a domain model on the Semantic Web. Updated with the latest developments and advances in Semantic Web technologies for organizing, querying, and processing information, including SPARQL, RDF and RDFS, OWL 2.0, and SKOS Detailed information on the ontologies used in today's key web applications, including ecommerce, social networking, data mining, using government data, and more Even more illustrative examples and case studies that demonstrate what semantic technologies are and how they work together to solve real-world problems Want to tap the power behind search rankings, product recommendations, social bookmarking, and online matchmaking? This fascinating book demonstrates how you can build Web 2.0 applications to mine the enormous amount of data created by people on the Internet. With the sophisticated algorithms in this book, you can write smart programs to access interesting datasets from other web sites, collect data from users of your own applications, and analyze and understand the data once you've found it. Programming Collective Intelligence takes you into the world of machine learning and statistics, and explains how to draw conclusions about user experience, marketing, personal tastes, and human behavior in general -- all from information that you and others collect every day. Each algorithm is described clearly and concisely with code that can immediately be used on your web site, blog, Wiki, or specialized application. This book explains: Collaborative filtering techniques that enable online retailers to recommend products or media Methods of clustering to detect groups of similar items in a large dataset Search engine features -- crawlers, indexers, query engines, and the PageRank algorithm Optimization algorithms that search millions of possible solutions to a problem and choose the best one Bayesian filtering, used in spam filters for classifying documents based on word types and other features Using decision trees not only to make predictions, but to model the way decisions are made Predicting numerical values rather than classifications to build price models Support vector machines to match people in online dating sites Non-negative matrix factorization to find the independent features in a dataset Evolving intelligence for problem solving -- how a computer develops its skill by improving its own code the more it plays a game Each chapter includes exercises for extending the algorithms to make them more powerful. Go beyond simple database-backed applications and put the wealth of Internet data to work for you. "Bravo! I cannot think of a better way for a developer to first learn these algorithms and methods, nor can I think of a better way for me (an old AI dog) to reinvigorate my knowledge of the details." -- Dan Russell, Google "Toby's book does a great job of breaking down the complex subject matter of machine-learning algorithms into practical, easy-to-understand examples that can be directly applied to analysis of social interaction across the Web today. If I had this book two years ago, it would have saved precious time going down some fruitless paths." -- Tim Wolters, CTO, Collective Intellect With the advent of microprocessors and digital-processing technologies as catalyst, classical sensors capable of simple signal conditioning operations have evolved rapidly to take on higher and more specialized functions including validation, compensation, and classification. This new category of sensor expands the scope of incorporating intelligence into instrumentation systems, yet with such rapid changes, there has developed no universal standard for design, definition, or requirement with which to unify intelligent instrumentation. Explaining the underlying design methodologies of intelligent instrumentation, Intelligent Instrumentation: Principles and Applications provides a

comprehensive and authoritative resource on the scientific foundations from which to coordinate and advance the field. Employing a textbook-like language, this book translates methodologies to more than 80 numerical examples, and provides applications in 14 case studies for a complete and working understanding of the material. Beginning with a brief introduction to the basic concepts of process, process parameters, sensors and transducers, and classification of transducers, the book describes the performance characteristics of instrumentation and measurement systems and discusses static and dynamic characteristics, various types of sensor signals, and the concepts of signal representations, various transforms, and their operations in both static and dynamic conditions. It describes smart sensors, cogent sensors, soft sensors, self-validating sensors, VLSI sensors, temperature-compensating sensors, microcontrollers and ANN-based sensors, and indirect measurement sensors. The author examines intelligent sensor signal conditioning such as calibration, linearization, and compensation, along with a wide variety of calibration and linearization techniques using circuits, analog-to-digital converters (ADCs), microcontrollers, ANNs, and software. The final chapters highlight ANN techniques for pattern classification, recognition, prognostic diagnosis, fault detection, linearization, and calibration as well as important interfacing protocols in the wireless networking platform. "This book provides a comprehensive reference source on next generation Web technologies and their applications"--Provided by publisher. Combining theory and practice, Website Design and Development with HTML5 and CSS3 is aimed at both beginners who want to design their first website, and experienced developers who want to consolidate their technical skills. This book addresses the theoretical aspects of HTML5 and CSS3, including: HTML elements, semantic containers, semantic text formatting, multimedia elements, forms, tables, definition and integration of CSS styles, text formatting, and container and box styles. It also encompasses a practical section which presents the process of creating a website, as well as the key rules to apply in order to not only achieve project success, but also to meet user needs. Illustrated by numerous examples, this book includes corrected practical work, structured according to an evolutionary logic ranging from the design of a simple HTML5 page to the creation of a professional website. The series "Studies in Computational Intelligence" (SCI) publishes new developments and advances in the various areas of computational intelligence – quickly and with a high quality. The intent is to cover the theory, applications, and design methods of computational intelligence, as embedded in the fields of engineering, computer science, physics and life science, as well as the methodologies behind them. The series contains monographs, lecture notes and edited volumes in computational intelligence spanning the areas of neural networks, connectionist systems, genetic algorithms, evolutionary computation, artificial intelligence, cellular automata, self-organizing systems, soft computing, fuzzy systems, and hybrid intelligent systems. Critical to both contributors and readers are the short publication time and world-wide distribution - this permits a rapid and broad dissemination of research results. The purpose of the 1st ACIS International Conference on Computers, Networks, Systems, and Industrial Engineering (CNSI 2011) was held on May23-25, 2011 in Jeju, Jeju Island, South Korea is to bring together scientist, engineers, computer users, students to share their experiences and exchange new ideas, and research results about all aspects (theory, applications and tools) of computer and information science, and to discuss the practical challenges encountered along the

way and the solutions adopted to solve them The conference organizers selected the best 22 papers from those papers accepted for presentation at the conference in order to publish them in this volume. The papers were chosen based on review scores submitted by members of the program committee, and underwent further rigorous rounds of review. 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. Opens with a chapter discussing the details of the SCWCD certification exam and process, then offers an overview of web applications as well as the servlet and JSP technologies, and, finally, covers each of the exam's thirteen objectives. Original. (All Users)