

# Agent And Web Service Technologies In Virtual Ent

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**Enabling Context-Aware Web Services** Quan Z. Sheng 2010-05-06 With recent advances in radio-frequency identification (RFID) technology, sensor networks, and enhanced Web services, the original World Wide Web is continuing its evolution into what is being called the Web of Things and Services. Such a Web will support an ultimately interactive environment where everyday physical objects such as buildings, sidewalks, and commodities become recognizable, addressable, and even controllable via a mostly ubiquitous Web. This integration of the physical and virtual worlds will fundamentally impact the way we live and in doing so afford tremendous new business opportunities with great human benefit, such as support services to keep the elderly independent, and intelligent traffic management that will cut wasted hours from every day. More efficient supply chains, improved environmental monitoring, better access to health services ... the list is endless. **Enabling Context-Aware Web Services: Methods, Architectures, and Technologies** compiles the newest developments and advances driving this new age forward. With contributions from leading researchers across the world this pioneering work bridges the gap between context-awareness and Web services. A comprehensive presentation of what's already accomplished and what is possible, the chapters of this book are systematically organized into three major sections: **Methods** focuses on the principle of context awareness in Web services and various ways to model those services at the specification level. **Architectures** details the infrastructures, frameworks, and standards needed to build context-aware Web services. **Technologies** presents a cornucopia of techniques adapted from once isolated research areas including semantic Web, database, and artificial intelligence development, as well as formal methods being employed to improve the development of context-aware Web services. Researchers, engineers, entrepreneurs, and educators across any number of fields will find new ideas worth considering, jumping-off points for developing improved software and applications, and seeds for business ventures that efficiently deliver needed products, information, or services. The possibilities are as limitless as we dare to imagine.

**Extending Web Services Technologies** Lawrence Cavedon 2006-03-30 **Extending Web Services Technologies** addresses the rapidly growing impact of Multi-Agent Systems on web services tools and techniques. In particular, the book addresses the potential for MAS techniques to impact the difficult challenges that must be tackled for web services technology to realize its promises. The area of web services offers the multi-agent

community exciting research possibilities, including similarities in system architectures, powerful tools, and a focus on issues such as trust and reliability. Likewise, techniques developed in the multi-agent research community promise to have a strong impact on this fast growing technology. The contents contain contributions by leading international researchers and professionals from both the web services and Multi-Agent Systems community. Topics include semantic web services and associated standards, architectures integrating agents and services, transactions, authorization, and service composition.

**Social, Managerial, and Organizational Dimensions of Enterprise Information Systems** Cruz-Cunha, Maria Manuela 2009-09-30 Discusses the technological developments, main issues, challenges, opportunities, and trends impacting every part of small to medium sized enterprises.

**Virtual Technologies** Jerzy Kisielnicki 2008 "This publication presents encompassing research of the concepts and realities involved in the field of virtual communities and technologies"--Provided by publisher.

*Enterprise Information Systems: Concepts, Methodologies, Tools and Applications* Management Association, Information Resources 2010-09-30 This three-volume collection, titled Enterprise Information Systems: Concepts, Methodologies, Tools and Applications, provides a complete assessment of the latest developments in enterprise information systems research, including development, design, and emerging methodologies. Experts in the field cover all aspects of enterprise resource planning (ERP), e-commerce, and organizational, social and technological implications of enterprise information systems.

**On the Move to Meaningful Internet Systems: OTM 2010** Robert Meersman 2010-11-06 In 2007 the IS workshop (Information Security) was added to try covering also the specific issues of security in complex Internet-based information systems.

**Holonic and Multi-Agent Systems for Manufacturing** Vladimir Marik 2009-08-25 The research of holonic and agent-based systems is developing very rapidly. The community around this R&D topic is also growing fast - despite the fact that the real-life practical implementations of such systems are still surprisingly rare. However, the managers in different branches of industry feel that the holonic and agent-based systems represent the only way of managing and controlling very complex, highly distributed systems exploring vast volumes of accumulated knowledge. The relevant research and development activities gain more and more visible support from both industry as well as public sectors. Quite naturally, the number of scientific events aimed at the subject field is also growing rapidly. We see new lines of conferences like INDIN, we observe a strong focus of the already well-established conferences, e. g. , INCOM or ETFA, being shifted toward holonic and agent-based manufacturing systems. We see an increased interest of the IEEE System, Man and Cybernetics Society, especially its Technical Committee on Distributed Intelligent Systems which leverages the experience gathered by the members of the former Holonic Manufacturing Systems (HMS) consortium. We see a clear orientation of the IEEE SMC Transactions, part C, toward applications of agent-oriented solutions. The same is true of the International Journal on Autonomous Agents and Multi-Agent Systems (JAAMAS). This is a really good sign of the increasing importance of the field.

**Brain Informatics** Yiyu Yao 2010-09-02 Annotation This book constitutes the refereed proceedings of the International Conference on Brain Informatics, BI 2010, held in Toronto, China, in August 2010. The 60 revised full papers presented were carefully reviewed and selected from 222 submissions. The papers are organized in topical sections on cognitive computing; data brain and analysis; neuronal modeling and brain modeling; perception and information processing; learning; cognition-inspired applications; and WICI perspectives on brain informatics.

**Emerging Solutions for Future Manufacturing Systems** Luis M. Camarinha-Matos 2006-01-04 Industries and particularly the manufacturing sector have been facing difficult challenges in a context of socio-economic turbulence characterized by complexity as well as the speed of change in causal interconnections in the socio-economic environment. In order to respond to these challenges companies are forced to seek new technological and organizational solutions. In this context two main characteristics emerge as key properties of a modern automation system – agility and distribution. Agility because systems need not only to be flexible in order to adjust to a number of a-priori defined scenarios, but rather must cope with unpredictability. Distribution in the sense that automation and business processes are becoming distributed and supported by collaborative networks. Emerging Solutions for Future Manufacturing Systems includes the papers selected for the BASYS'04 conference, which was held in Vienna, Austria in September 2004 and sponsored by the International Federation for Information Processing (IFIP).

**Agent Technologies and Web Engineering: Applications and Systems** Alkhatib, Ghazi I. 2008-11-30 "This book presents various applications of the growing perspective of agent technologies as they apply the web engineering"--Provided by publisher.

*Opportunities and Challenges for Next-Generation Applied Intelligence* Been-Chian Chien 2009-05-19 The term "Artificial Intelligence" has been used since 1956 and has become a very popular research field. Generally, it is the study of the computations that enable a system to perceive, reason and act. In the early days, it was expected to achieve the same intelligent behavior as a human, but found impossible at last. Its goal was thus revised to design and use of intelligent methods to make systems more efficient at solving problems. The term "Applied Intelligence" was thus created to represent its practicality. It emphasizes applications of applied intelligent systems to solve real-life problems in all areas including engineering, science, industry, automation, robotics, business, finance, medicine, bio-medicine, bio-informatics, cyberspace, and man-machine interactions. To endow the intelligent behavior of a system, many useful and interesting techniques have been developed. Some of them are even borrowed from the natural observation and biological phenomenon. Neural networks and evolutionary computation are two examples of them. Besides, some other heuristic approaches like data mining, adaptive control, intelligent manufacturing, autonomous agents, bio-informatics, reasoning, computer vision, decision support systems, expert systems, fuzzy logic, robots, intelligent interfaces, internet technology, planning and scheduling, are also commonly used in applied intelligence.

**Management Information Systems for Enterprise Applications: Business Issues, Research and Solutions**

Koumpis, Adamantios 2012-02-29 "This book provides the conceptual and methodological foundations that

reflect interdisciplinary concerns regarding research in management information systems, investigating the future of management information systems by means of analyzing a variety of MIS and service-related concepts in a wide range of disciplines"--Provided by publisher.

**Contemporary Issues in Systems Science and Engineering** MengChu Zhou 2015-04-20 Various systems science and engineering disciplines are covered and challenging new research issues in these disciplines are revealed. They will be extremely valuable for the readers to search for some new research directions and problems. Chapters are contributed by world-renowned systems engineers Chapters include discussions and conclusions Readers can grasp each event holistically without having professional expertise in the field

*Creating Synthetic Emotions through Technological and Robotic Advancements* Vallverdú, Jordi 2012-05-31 As humans interact more often and more intimately with computers, and as computational systems become an ever more important element of our society, playing roles in education, the production of culture and goods, and management, it is inevitable that we should seek to interact with these systems in ways that take advantage of our powerful emotional capabilities. *Creating Synthetic Emotions through Technological and Robotic Advancements* compiles progressive research in the emerging and groundbreaking fields of artificial emotions, affective computing, and sociable robotics that allow humans to begin the once impossible-seeming task of interacting with robots, systems, devices, and agents. This landmark volume brings together expert international researchers to expound upon these topics as synthetic emotions move toward becoming a daily reality.

**Pervasive Cloud Computing Technologies: Future Outlooks and Interdisciplinary Perspectives** Grandinetti, Lucio 2013-10-31 Technology trends may come and go, but cloud computing technologies have been gaining consideration in the commercial world due to its ability to provide on-demand access to resources, control the software environment, and supplement existing systems. *Pervasive Cloud Computing Technologies: Future Outlooks and Interdisciplinary Perspectives* explores the latest innovations with cloud computing and the impact of these new models and technologies. This book will present case studies and research on the future of cloud computing technologies and its ability to increase connectivity of various entities of the world. It is an essential resource for technology practitioners, engineers, managers, and academics aiming to gain the knowledge of these novel and pervasive technologies.

**Databases and Information Systems IV** Olegas Vasilecas 2007 "This publication contains papers that present original results in business modeling and enterprise engineering, database research, data engineering, data quality and data analysis, IS engineering, Web engineering, and application of AI methods. The contributions are from academics and practitioners from the entire world. We hope that the presented results will contribute to the further development of research in DB and IS field. The conference where these papers were presented has been approved by the IEEE Communication Society for Technical Cosponsorship. All papers have been extended significantly and rewritten completely. They have been reviewed by at least 3 reviewers from different countries who evaluated their originality, significance, relevance, and presentation and found their quality suitable for the publication in this volume."

*E-Logistics and E-Supply Chain Management* Deryn Graham 2013-04-30 "This book explores the creation of integrated supply chains, the developments of virtual business, and the processes of re-engineering for business development"--Provided by publisher.

Designing Distributed Learning Environments with Intelligent Software Agents Fuhua Oscar Lin 2005-01-01 Designing Distributed Learning Environments with Intelligent Software Agents reports on the most recent advances in agent technologies for distributed learning. Chapters are devoted to the various aspects of intelligent software agents in distributed learning, including the methodological and technical issues on where and how intelligent agents can contribute to meeting distributed learning needs today and tomorrow. This book benefits the AI (artificial intelligence) and educational communities in their research and development, offering new and interesting research issues surrounding the development of distributed learning environments in the Semantic Web age. In addition, the ideas presented in the book are applicable to other domains such as Agent-Supported Web Services, distributed business process and resource integration, computer-supported collaborative work (CSCW) and e-Commerce.

Trust, Organizations and the Digital Economy Joanna Paliszkievicz 2021-09-28 Trust is a pervasive catalyst of human and business relationships that has inspired interest in researchers and practitioners alike. It has been shown to enhance engagement, communication, organizational performance, and online activities. Despite its role to cultivate cooperation, knowledge-sharing, and innovation, trust through digital means or even trust in digital media has presented new opportunities and challenges in society. Examples include a wider and faster dissemination of trust-influencing messages, and richer options of digital cues that engage, disrupt, or even transform how trust is formulated. Despite that, trust helps people to live through risky and uncertain situations, and the many capabilities enabled on the digital platforms have made the formation and sustaining of trust very different compared to traditional means. Trust in today's digital environment plays an important role and is intertwined with concepts including reliability, quality, and privacy. This book aims to bring together the theory and practice of trust in the new digital era and will present theoretical and practical foundations. Trust is not given; we must work to build it, but it is a very fragile and intangible asset once built. It is easy to destroy and challenging to rebuild. Researchers, academics, and students in the fields of management, responsibility, and business ethics will gain knowledge on trust and related concepts, learn about the theoretical underpinnings of trust and how it sustains itself through digital dissemination, and explore empirically validated practice regarding trust and its related concepts.

**Selected Readings on Telecommunications and Networking** Gutierrez, Jairo 2008-08-31 "This book presents quality articles focused on key issues concerning the planning, design, maintenance, and management of telecommunications and networking technologies"--Provided by publisher.

**Agent Computing and Multi-Agent Systems** Ramakoti Sadananada 2006-07-18 This book constitutes the refereed proceedings of the 9th Pacific Rim International Workshop on Multi-Agents, PRIMA 2006, held in Guilin, China, in August 2006. The book presents 39 revised full papers and 57 revised short papers together with 4 invited talks, addressing subjects from theoretical and methodological issues to applications. Topics

include agent models, agent architectures, agent-oriented software engineering, semantic Web service, collaboration, coordination and negotiation, and more.

**Handbook of Research on P2P and Grid Systems for Service-Oriented Computing: Models, Methodologies and Applications** Antonopoulos, Nick 2010-01-31 Addresses the need for peer-to-peer computing and grid paradigms in delivering efficient service-oriented computing.

**Information Systems Design and Intelligent Applications** Suresh Chandra Satapathy 2018-12-30 The book gathers a collection of high-quality peer-reviewed research papers presented at the International Conference on Information System Design and Intelligent Applications (INDIA 2018), which was held at the Université des Mascareignes, Mauritius from July 19 to 21, 2018. It covers a wide range of topics in computer science and information technology, from image processing, database applications and data mining, to grid and cloud computing, bioinformatics and many more. The intelligent tools discussed, e.g. swarm intelligence, artificial intelligence, evolutionary algorithms, and bio-inspired algorithms, are currently being applied to solve challenging problems in various domains.

Programming Multi-Agent Systems Lars Braubach 2010-09-03 This book constitutes the proceedings of the 7th International Workshop on Programming Multi-Agent Systems held in Budapest, Hungary, in May 2009.

*Encyclopedia of E-Commerce, E-Government, and Mobile Commerce* Khosrow-Pour, D.B.A., Mehdi 2006-03-31 [Administration (référence électronique)].

Design and Use of Virtualization Technology in Cloud Computing Das, Prashanta Kumar 2017-08-11 Cloud computing is rapidly expanding in its applications and capabilities through various parts of society. Utilizing different types of virtualization technologies can push this branch of computing to even greater heights. Design and Use of Virtualization Technology in Cloud Computing is a crucial resource that provides in-depth discussions on the background of virtualization, and the ways it can help shape the future of cloud computing technologies. Highlighting relevant topics including grid computing, mobile computing, open source virtualization, and virtualization in education, this scholarly reference source is ideal for computer engineers, academicians, students, and researchers that are interested in learning more about how to infuse current cloud computing technologies with virtualization advancements.

*Web Engineering Advancements and Trends: Building New Dimensions of Information Technology* Alkhatib, Ghazi I. 2010-01-31 Web Engineering Advancements and Trends: Building New Dimensions of Information Technology examines integrated approaches in new dimensions of social and organizational knowledge sharing with emphasis on intelligent and personalized access.

**Service Orientation in Holonic and Multi-agent Manufacturing** Theodor Borangiu 2015-02-17 This volume gathers the peer reviewed papers presented at the 4th edition of the International Workshop “Service Orientation in Holonic and Multi-agent Manufacturing – SOHOMA’14” organized and hosted on November

5-6, 2014 by the University of Lorraine, France in collaboration with the CIMR Research Centre of the University Politehnica of Bucharest and the TEMPO Laboratory of the University of Valenciennes and Hainaut-Cambresis. The book is structured in six parts, each one covering a specific research line which represents a trend in future manufacturing: (1) Holonic and Agent-based Industrial Automation Systems; (2) Service-oriented Management and Control of Manufacturing Systems; (3) Distributed Modelling for Safety and Security in Industrial Systems; (4) Complexity, Big Data and Virtualization in Computing-oriented Manufacturing; (5) Adaptive, Bio-inspired and Self-organizing Multi-Agent Systems for Manufacturing and (6) Physical Internet Simulation, Modelling and Control. There is a clear orientation of the SOHOMA'14 workshop towards complexity, which is a common view of all six parts. There is need for a framework allowing the development of manufacturing cyber physical systems including capabilities for complex event processing and data analytics which are expected to move the manufacturing domain closer towards cloud manufacturing within contextual enterprises. Recent advances in sensor, communication and intelligent computing technologies made possible the Internet connectivity of the physical world: the Physical Internet, where not only documents and images are created, shared, or modified in the cyberspace, but also the physical resources and products interact over Internet and make decisions based on shared communication.

*Knowledge Discovery, Knowledge Engineering and Knowledge Management* Ana Fred 2013-12-20 This book constitutes the thoroughly refereed proceedings of the 4th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management, IC3K, held in Barcelona, Spain, in October 2012. The 29 best papers were carefully reviewed and selected from 347 submissions. The papers are organized in topical sections on knowledge discovery and information retrieval; knowledge engineering and ontology development; knowledge management and information sharing.

**Wireless Technologies: Concepts, Methodologies, Tools and Applications** Management Association, Information Resources 2011-08-31 Contains the latest research, case studies, theories, and methodologies within the field of wireless technologies.

*Emerging Trends in Technological Innovation* Luis M. Camarinha-Matos 2010-02-26 Identifying Emerging Trends in Technological Innovation Doctoral programs in science and engineering are important sources of innovative ideas and techniques that might lead to new products and technological innovation. Certainly most PhD students are not experienced researchers and are in the process of learning how to do research. Nevertheless, a number of empiric studies also show that a high number of technological innovation ideas are produced in the early careers of researchers. The combination of the eagerness to try new approaches and directions of young doctoral students with the experience and broad knowledge of their supervisors is likely to result in an important pool of innovation potential. The DoCEIS doctoral conference on Computing, Electrical and Industrial Engineering aims at creating a space for sharing and discussing ideas and results from doctoral research in these inter-related areas of engineering. Innovative ideas and hypotheses can be better enhanced when presented and discussed in an encouraging and open environment. DoCEIS aims to provide such an environment, releasing PhD students from the pressure of presenting their propositions in more formal contexts.

Selected Readings on Information Technology Management: Contemporary Issues Kelley, George 2008-08-31

"This book presents quality articles focused on key issues concerning the management and utilization of information technology"--Provided by publisher.

**Computational and Data Grids: Principles, Applications and Design** Preve, Nikolaos 2011-09-30 "This book provide relevant theoretical frameworks covering the latest empirical research findings in the area of grid computing, with a critical perspective bridging the gap between academia and the latest achievements of the computer industry"--Provided by publisher.

**Agent and Web Service Technologies in Virtual Enterprises** Protogeris, Nicolaos 2007-07-31 Provides a comprehensive review of the most recent advances in agent and Web service technologies. Provides an integrated view of the most recent contributions that support formation, integration, collaboration, and operation in virtual enterprise. Presents examples of applications of these technologies throughout various aspects of the virtual enterprise life cycle.

**Advances in Banking Technology and Management: Impacts of ICT and CRM** Ravi, Vadlamani 2007-10-31 Banking across the world has undergone extensive changes thanks to the profound influence of developments and trends in information communication technologies, business intelligence, and risk management strategies. While banking has become easier and more convenient for the consumer, the advances and intricacies of emerging technologies have made banking operations all the more cumbersome. *Advances in Banking Technology and Management: Impacts of ICT and CRM* examines the various myriads of technical and organizational elements that impact services management, business management, risk management, and customer relationship management, and offers research to aid the successful implementation of associated supportive technologies.

*Advanced Agent-Based Environmental Management Systems* Ulises Cortes Garcia 2009-03-08 Multi-agent Systems (MAS) are one of the most exciting research areas in Artificial Intelligence meanwhile Environmental Studies is a research area of strategic interest. Both areas can provide society with solutions for many real applications, in order to use and protect the environment. Human activities imply intervention into nature, but properly managed, these interventions can not be only ecologically sound but also favourable to the sustainable development of civilisation. The encounter between these fields is a new challenge for many researchers of both communities. This book presents a comprehensive reference of state-of-the-art efforts. Specifically, it presents current and future ways in which adaptive information technologies, techniques, protocols and architectures, such as software agent technologies and multi-agent systems, can be used to support the development of real-world agent-based systems in the area of e-Environment.

Models and Theories in Social Systems Cristina Flaut 2018-10-12 This book concisely presents a broad range of models and theories on social systems. Because of the huge spectrum of topics involving social systems, various issues related to Mathematics, Statistics, Teaching, Social Science, and Economics are discussed. In an effort to introduce the subject to a wider audience, this volume, part of the series "Studies in Systems, Decision and

Control”, equally addresses the needs of mathematicians, statisticians, sociologists and philosophers. The studies examined here are divided into four parts. The first part, “Perusing the Minds Behind Scientific Discoveries”, traces the winding path of Syamal K. Sen and Ravi P. Agarwal’s scholarship throughout history, and most importantly, the thought processes that allowed each of them to master their subject. The second part covers “Theories in Social Systems” and the third discusses “Models in Social Systems”, while the fourth and final part is dedicated to “Mathematical Methods in the Social Sciences”. Given its breadth of coverage, the book will offer inquisitive readers a valuable point of departure for exploring these rich, vast, and ever-expanding fields of knowledge.

Cloud Technology: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources 2014-10-31 As the Web grows and expands into ever more remote parts of the world, the availability of resources over the Internet increases exponentially. Making use of this widely prevalent tool, organizations and individuals can share and store knowledge like never before. Cloud Technology: Concepts, Methodologies, Tools, and Applications investigates the latest research in the ubiquitous Web, exploring the use of applications and software that make use of the Internet’s anytime, anywhere availability. By bringing together research and ideas from across the globe, this publication will be of use to computer engineers, software developers, and end users in business, education, medicine, and more.

Software Applications: Concepts, Methodologies, Tools, and Applications Tiako, Pierre F. 2009-03-31 Includes articles in topic areas such as autonomic computing, operating system architectures, and open source software technologies and applications.

**Modern Library Technologies for Data Storage, Retrieval, and Use** Wei, Chia-Hung 2013-02-28 In recent years, libraries have embraced new technologies that organize and store a variety of digital information, such as multimedia databases, digital medical images, and content-based images. **Modern Library Technologies for Data Storage, Retrieval, and Use** highlights new features of digital library technology in order to educate the database community. By contributing research from case studies on the emerging technology use in libraries, this book is essential for academics and scientists interested in the efforts to understand the applications of data acquisition, retrieval and storage.