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From P2P and Grids to Services on the Web - Ian J. Taylor 2008-12-11

Covers a comprehensive range of P2P and Grid technologies. Provides a broad overview of the P2P field and how it relates to other technologies, such as Grid Computing, jini, Agent based computing, and web services.

The Semantic Web - ISWC 2009 - Abraham Bernstein 2009-10-08

As the Web continues to grow, increasing amounts of data are being made available for human and machine consumption. This emerging Semantic Web is rapidly entering the mainstream and, as a result, a variety of new solutions for searching, aggregating and the intelligent delivery of information are being produced, both in research and commercial settings. Several new challenges arise from this context, both from a technical and human-computer interaction perspective - e.g., as issues to do with the scalability and usability of Semantic Web solutions become particularly important. The International Semantic Web Conference (ISWC) is the major international forum where the latest research results and technical innovations on all aspects of the Semantic Web are presented. ISWC brings together researchers, practitioners, and users from the areas of artificial intelligence, databases, social networks, distributed computing, Web engineering, information systems, natural language processing, soft computing, and human-computer interaction to discuss the major challenges and proposed solutions, success stories and failures, as well the visions that can advance the field.

Revolutionizing the Development of Library and Information Professionals: Planning for the Future - Hines, Samantha Schmehl 2013-10-31

As more associations struggle with limited professional development funding, the opportunities for library and information experts to advance their skills are being examined in a more effective and cost-efficient manner. Revolutionizing the Development of Library and Information Professionals: Planning for the Future examines the future of library professional development by investigating the aspects that make these development events worthwhile. This book is essential for library association personnel, educational institutions, and management personnel in large library systems to aid in determining future trends in professional development opportunities for their staff.

Succession Planning and Implementation in Libraries: Practices and Resources - Deards, Kiyomi D. 2014-03-31

As the baby boomer generation begins to retire, the focus shifts to the next generation of global leaders in diverse industries. Within the field of library science, succession planning has become a topic of interest to ensure the success of future libraries as the workforce shifts and enable up-and-coming leaders. Succession Planning and Implementation in Libraries: Practices and Resources provides valuable insight into the process of implementing succession planning in libraries. This book delves into the challenges and possibilities of a succession plan's effect on the success of library organizations. Human resources officers, library administrators, academicians, and students will find this book beneficial to furthering their understanding of current practice in succession planning.

Solutions for Sustaining Scalability in Internet Growth - Boucadair, Mohamed 2013-07-31

An ever-increasing thirst for information in recent years among consumers, researchers, and the general population has necessitated continuous growth of internet architecture and accessibility, an issue which, if not addressed properly, may inhibit the growth of the internet as a whole. Solutions for Sustaining Scalability in Internet Growth investigates current issues impeding the growth of information architecture and explores methods for developing a wider-reaching and ever-evolving internet. The book presents viable solutions to some of the current threats to robust and pervasive information systems, enabling internet actors such as network providers, service providers, vendors, and regulatory bodies to ensure the creation of a more accessible and balanced internet.

Theoretical and Analytical Service-Focused Systems Design and Development - Chiu, Dickson K. W. 2012-06-30

"This book provides solutions to these challenges, practices and understanding of contemporary theories and empirical analysis for systems engineering in a way that achieves service excellence"--Provided by publisher.

Encyclopedia of Information Science and Technology - Mehdi Khosrow-Pour 2009

"This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

Multiagent System Technologies - Torsten Eymann 2005-08-30

This book constitutes the refereed proceedings of the Third German Conference on Multiagent Systems Technologies, MATES 2005, held in Koblenz, Germany, in September 2005 - co-located with the 28th German Conference on Artificial Intelligence (KI 2005). The 14 revised full papers presented together with 5 revised short papers and 5 poster papers were carefully reviewed and selected from 54 submissions. The papers are organized in topical sections on workflows and group interaction, reasoning about utility, the dynamics of knowledge, methodology and simulation, agent tools and agent education.

Developing Advanced Web Services Through P2P Computing and Autonomous Agents - Khaled Ragab 2010

Developing Advanced Web Services through P2P Computing and Autonomous Agents: Trends and Innovations establishes an understanding of autonomous peer-to-peer Web Service models and developments as well as extends growing literature on emerging technologies. This scholarly publication is an important reference for researchers and academics working in the fields of peer-to-peer computing, Web and grid services, and agent technologies.

Advanced Biophotonics - Ruikang K. Wang 2016-04-19

Despite a number of books on biophotonics imaging for medical diagnostics and therapy, the field still lacks a comprehensive imaging book that describes state-of-the-art biophotonics imaging approaches intensively developed in recent years. Addressing this shortfall, Advanced Biophotonics: Tissue Optical Sectioning presents contemporary methods and applications of biophotonics imaging. Gathering research otherwise

scattered in numerous physical, chemical, biophysical, and biomedical journals, the book helps researchers, bioengineers, and medical doctors understand major recent bioimaging technologies and the underlying biophotonics science. Well-known international experts explore a variety of "hot" biomedical optics and biophotonics problems, including the use of photoacoustic imaging to investigate the molecular and cellular processes in living systems. The book also covers Monte Carlo modeling, tissue optics and tissue optical clearing, nonlinear optical microscopy, various aspects of optical coherence tomography, multimodal tomography, adaptive optics, and signal imaging. With 58 color images, this book represents a valuable contribution to the biomedical and biophotonics literature. Designed for researchers and practitioners in biophotonics, the book is also a useful resource for scientists in laser physics and technology, fiber optics, spectroscopy, materials science, biology, and medicine as well as students studying biomedical physics and engineering, biomedical optics, and biophotonics.

Rural Community Libraries in Africa: Challenges and Impacts - Dent, Valeda F. 2014-01-31

"This book investigates the relationship between local libraries and community development, from the historical roots of rural libraries to their influence on the literacy, economy, and culture of the surrounding region"--Provided by publisher.

Distributed Computing - 2004

Encyclopedia of GIS - Shashi Shekhar 2007-12-12

The Encyclopedia of GIS provides a comprehensive and authoritative guide, contributed by experts and peer-reviewed for accuracy, and alphabetically arranged for convenient access. The entries explain key software and processes used by geographers and computational scientists. Major overviews are provided for nearly 200 topics: Geoinformatics, Spatial Cognition, and Location-Based Services and more. Shorter entries define specific terms and concepts. The reference will be published as a print volume with abundant black and white art, and simultaneously as an XML online reference with hyperlinked citations, cross-references, four-color art, links to web-based maps, and other interactive features.

Internet Computing - Ali Sunyaev 2020-02-12

This book introduces the reader to the fundamentals of contemporary, emerging and future technologies and services in Internet computing. It covers essential concepts such as distributed systems architectures and web technologies, contemporary paradigms such as cloud computing and the Internet of things, and emerging technologies like distributed ledger technologies and fog computing. The book also highlights the interconnection and recombination of these Internet-based technologies, which together form a critical information infrastructure with major impacts on individuals, organizations, governments, economies, and society as a whole. Intended as a textbook for upper undergraduate and graduate classes, it features a wealth of examples, learning goals and summaries for every chapter, numerous recommendations for further reading, and questions for checking students' comprehension. A dedicated author website offers additional teaching material and more elaborate examples. Accordingly, the book enables students and young professionals in IT-related fields to familiarize themselves with the Internet's basic mechanisms, and with the most promising Internet-based technologies of our time.

Advanced Web Technologies and Applications - Jeffrey Xu Yu 2004-03-15

The Asia-Pacific region has emerged in recent years as one of the fastest growing regions in the world in the use of Web technologies as well as in making significant contributions to WWW research and development. Since the first Asia-Pacific Web conference in 1998, APWeb has continued to provide a forum for researchers, professionals, and industrial practitioners from around the world to share their rapidly evolving knowledge and to report new advances in WWW technologies and applications. APWeb 2004 received an overwhelming 386 full-paper submissions, including 375 research papers and 11 industrial papers from 20 countries and regions: Australia, Canada, China, France, Germany, Greece, HongKong, India, Iran, Japan, Korea, Norway, Singapore, Spain, Switzerland, Taiwan, Turkey, UK, USA, and Vietnam. Each submission was carefully reviewed by three members of the program committee. Among the 386 submitted papers, 60 regular papers, 24 short papers, 15 poster papers, and 3 industrial papers were selected to be included in the proceedings. The selected papers cover a wide range of topics including Web services, Web intelligence, Web personalization, Web

query processing, Web - ching, Web mining, text mining, data mining and knowledge discovery, XML database and query processing, workflow management, E-commerce, data - rehousing, P2P systems and applications, Grid computing, and networking. The paper entitled "Towards Adaptive Probabilistic Search in Unstructured P2P - stems", co-authored by Linhao Xu, Chenyun Dai, Wenyuan Cai, Shuigeng Zhou, and Aoying Zhou, was awarded the best APWeb 2004 student paper.

Advanced Web Services - Athman Bouguettaya 2013-08-13

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.

Advances and Innovations in Systems, Computing Sciences and Software Engineering - Khaled Elleithy 2007-08-28

This book includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computing Sciences, Software Engineering and Systems. The book presents selected papers from the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2006). All aspects of the conference were managed on-line.

Big-Data Analytics for Cloud, IoT and Cognitive Computing - Kai Hwang 2017-03-13

The definitive guide to successfully integrating social, mobile, Big-Data analytics, cloud and IoT principles and technologies The main goal of this book is to spur the development of effective big-data computing operations on smart clouds that are fully supported by IoT sensing, machine learning and analytics systems. To that end, the authors draw upon their original research and proven track record in the field to describe a practical approach integrating big-data theories, cloud design principles, Internet of Things (IoT) sensing, machine learning, data analytics and Hadoop and Spark programming. Part 1 focuses on data science, the roles of clouds and IoT devices and frameworks for big-data computing. Big data analytics and cognitive machine learning, as well as cloud architecture, IoT and cognitive systems are explored, and mobile cloud-IoT-interaction frameworks are illustrated with concrete system design examples. Part 2 is devoted to the principles of and algorithms for machine learning, data analytics and deep learning in big data applications. Part 3 concentrates on cloud programming software libraries from MapReduce to Hadoop, Spark and TensorFlow and describes business, educational, healthcare and social media applications for those tools. The first book describing a practical approach to integrating social, mobile, analytics, cloud and IoT (SMACT) principles and technologies Covers theory and computing techniques and technologies, making it suitable for use in both computer science and electrical engineering programs Offers an extremely well-informed vision of future intelligent and cognitive computing environments integrating SMACT technologies Fully illustrated throughout with examples, figures and approximately 150 problems to support and reinforce learning Features a companion website with an instructor manual and PowerPoint slides www.wiley.com/go/hwangIoT Big-Data Analytics for Cloud, IoT and Cognitive Computing satisfies the demand among university faculty and students for cutting-edge information on emerging intelligent and cognitive computing systems and technologies. Professionals working in data science, cloud computing and IoT applications will also find this book to be an extremely useful working resource.

Internet - Technical Development and Applications - Ewaryst Tkacz 2009-10-13

Internet technologies and systems are nowadays the key enablers of digital economy and modern world-

wide connected society. This contributed book is a collection of cautiously chosen articles delivered by specialists with significant level of expertise in the domain of Internet technical foundations and its applications. The content of the book is divided into three parts: Internet - technical fundamentals and applications Information management systems Information security in distributed computer systems This book is a reference tool prepared for scientists and other persons involved in designing, implementation and evaluation of internet technologies. Its readers can be found among researchers, teachers and also students of computer science and related disciplines.

Information Systems Development - Rob Pooley 2013-10-26

Information Systems Development: Reflections, Challenges and New Directions, is the collected proceedings of the 20th International Conference on Information Systems Development held in Edinburgh, Scotland, August 24 - 26, 2011. It follows in the tradition of previous conferences in the series in exploring the connections between industry, research and education. These proceedings represent ongoing reflections within the academic community on established information systems topics and emerging concepts, approaches and ideas. It is hoped that the papers herein contribute towards disseminating research and improving practice

Network and Traffic Engineering in Emerging Distributed Computing Applications - Abawajy, Jemal H. 2012-07-31

"This book focuses on network management and traffic engineering for Internet and distributed computing technologies, as well as present emerging technology trends and advanced platforms"--Provided by publisher.

Network World - 2002-08-19

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

Java Web Services Unleashed - Robert J. Brunner 2002

This text provides Java developers with in-depth coverage of Web Services technology. It includes contributions from recognised Web Services experts and architects, including the Web Services team at IBM.

Media in the Ubiquitous Era: Ambient, Social and Gaming Media - Lugmayr, Artur 2011-09-30

"This book focuses on the definition of ambient and ubiquitous media from a cross-disciplinary viewpoint, covering the fields of commerce, science, research affecting citizens"--Provided by publisher.

Innovations in Database Design, Web Applications, and Information Systems Management - Siau, Keng 2012-09-30

New techniques and tools for database and database technologies are continuously being introduced. These technologies are the heart of many business information systems and can benefit from theories, models, and research results from other disciplines. Innovations in Database Design, Web Applications, and Information Systems Management presents ideal research in the areas of database theory, systems design, ontologies, and many more. Including examples of the convergence of ideas from various disciplines aimed at improving and developing the theory of information technology and management of information resources, this book is useful for researchers and practitioners in the IT field.

Cooperative Information Agents XII - Matthias Klusch 2008-08-28

This book constitutes the refereed proceedings of the 12th International Workshop on Cooperative Information Agents, CIA 2008, held in Prague, Czech Republik, in September 2008. The book contains 5 invited papers and 19 revised full papers which were carefully reviewed and selected from 38 submissions. The papers are organized in topical sections on Trust, Applications, Coordination and Communications, and Negotiation.

The Knowledge Grid - 2012

The Knowledge Grid is an intelligent and sustainable interaction environment that consists of autonomous individuals, self-organized semantic communities, adaptive networking mechanisms, evolving semantic link

networks keeping meaningful connection between individuals, flows for dynamic resource sharing, and mechanisms supporting effective resource management and providing appropriate knowledge services for learning, innovation, teamwork, problem solving, and decision making. This book presents its methodology, theory, models and applications systematically for the first time. Its second editio

Strategic and Pragmatic E-Business: Implications for Future Business Practices - Mohammed Rezaul, Karim 2012-05-31

In emerging and global economies, e-commerce and e-business have become increasingly necessary components of business strategy and strong catalysts for economic development. Strategic and Pragmatic E-Business: Implications for Future Business Practices disseminates information on the new practices and techniques in e-business and promotes a better understanding of contemporary issues and solutions to existing and emerging challenges. Making prospective audiences aware of concurrent business needs, models, trends, methods, and techniques, this books targets: e-commerce vendors, business managers, entrepreneurs, software industries, the digital media world, and online merchants who wish to build strong consumer brands.

At Your Service - Elisabetta Di Nitto 2009

Research results from industry-academic collaborative projects in service-oriented computing describe practical, achievable solutions. Service-Oriented Applications and Architectures (SOAs) have captured the interest of industry as a way to support business-to-business interaction, and the SOA market grew by \$4.9 billion in 2005. SOAs and in particular service-oriented computing (SOC) represent a promising approach in the development of adaptive distributed systems. With SOC, applications can open themselves to services offered by third parties and accessed through standard, well-defined interfaces. The binding between the applications and the services can be, in this context, extremely loose--enabling the ad hoc creation of new services when the need arises. This book offers an overview of some current research in the field, presenting the results of eighteen research projects funded by the European Community's Information Society Technologies Program (IST). The projects, collaborations between industry and academia, have produced practical, achievable results that point the way to real-world applications and future research. The chapters address such issues as requirement analysis, design, governance, interoperability, and the dependability of systems made up of components owned by third parties. The results are presented in the context of two roadmaps for research, one developed by European industry involved in software development and the other by researchers working in the service area. The contributors report first on the "Infrastructure Layer," then (in the bulk of the book) on the "Service Integration Layer," the "Semantic Layer," and finally on the issues that cut across the different layers. The book concludes by looking at ongoing research on both roadmaps.

Handbook of Research on Social Dimensions of Semantic Technologies and Web Services - Cruz-Cunha, Maria Manuela 2009-05-31

"This book discusses the new technologies of semantic Web, transforming the way we use information and knowledge"--Provided by publisher.

Agents and Data Mining Interaction - Longbing Cao 2012-01-09

This book constitutes the thoroughly refereed post-workshop proceedings of the 7th International Workshop on Agents and Data Mining Interaction, ADMI 2011, held in Taipei, Taiwan, in May 2011 in conjunction with AAMAS 2011, the 10th International Joint Conference on Autonomous Agents and Multiagent Systems. The 11 revised full papers presented were carefully reviewed and selected from 24 submissions. The papers are organized in topical sections on agents for data mining; data mining for agents; and agent mining applications.

Distributed Computing -- IWDC 2004 - Nabanita Das 2004-12-07

Last, but not least, thanks to all the participants and authors. We hope that they enjoyed the workshop as much as the wonderful and culturally vibrant city of Kolkata! Bhabani P. Sinha Indian Statistical Institute, Kolkata, India December 2004 Sajal K. Das University of Texas, Arlington, USA December 2004 Program Chairs' Message On behalf of the Technical Program Committee of the 6th International Wo- shop on Distributed Computing, IWDC 2004, it was our great pleasure to w- come the attendees to Kolkata, India. Over the last few years, IWDC has emerged as an internationally renowned forum for interaction among

researchers from academia and industries around the world. A clear indicator of this fact is the large number of high-quality submissions of technical papers received by the workshop this year. The workshop program consisted of 12 technical sessions with 54 contributed papers, two keynote addresses, four tutorials, a panel, a poster session and the Prof.A.K.ChoudhuryMemorialLecture.TheIWDCProgramCommittee, comprising 38 distinguished members, worked hard to organize the technical program. Following a rigorous review process, out of 157 submissions only 54 papers were accepted for presentation in the technical sessions; 27 of the accepted papers were classified as regular papers and the remaining 27 as short papers. Another 11 papers were accepted for presentation in the poster session, each with a one-page abstract appearing in the proceedings.

Service-Oriented Computing - Munindar P. Singh 2006-02-22

This comprehensive text explains the principles and practice of Web services and relates all concepts to practical examples and emerging standards. Its discussions include: Ontologies Semantic web technologies Peer-to-peer service discovery Service selection Web structure and link analysis Distributed transactions Process modelling Consistency management. The application of these technologies is clearly explained within the context of planning, negotiation, contracts, compliance, privacy, and network policies. The presentation of the intellectual underpinnings of Web services draws from several key disciplines such as databases, distributed computing, artificial intelligence, and multi-agent systems for techniques and formalisms. Ideas from these disciplines are united in the context of Web services and service-based applications. Featuring an accompanying website and teacher's manual that includes a complete set of transparencies for lectures, copies of open-source software for exercises and working implementations, and resources to conduct course projects, this book makes an excellent graduate textbook. It will also prove an invaluable reference and training tool for practitioners.

Advanced Information Systems Engineering - Johann Eder 2003-08-03

The refereed proceedings of the 15th International Conference on Advanced Information Systems Engineering, CaiSE 2003, held in Klagenfurt, Austria in June 2003. The 45 revised full papers presented together with 3 invited contributions were carefully reviewed and selected from 219 submissions. The papers are organized in topical sections on XML, methods and models for information systems, UML, Internet business and social modeling, peer-to-peer systems, ontology-based methods, advanced design of information systems, knowledge, knowledge management, Web services, data warehouses, electronic agreements and workflow, requirements engineering, metrics and method engineering, and agent technologies and advanced environments.

Advanced Computing - Natarajan Meghanathan 2010-12-14

This volume constitutes the third of three parts of the refereed proceedings of the First International Conference on Computer Science and Information Technology, CCSIT 2010, held in Bangalore, India, in January 2011. The 46 revised full papers presented in this volume were carefully reviewed and selected. The papers are organized in topical sections on soft computing, such as AI, Neural Networks, Fuzzy Systems, etc.; distributed and parallel systems and algorithms; security and information assurance; ad hoc and ubiquitous computing; wireless ad hoc networks and sensor networks.

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.

Advanced Geoinformation Science - Chaowei Yang 2010-10-21

Many of the challenges of the next century will have physical dimensions, such as tsunamis, hurricanes, and climate change as well as human dimensions such as economic crises, epidemics, and emergency responses. With pioneering editors and expert contributors, Advanced Geoinformation Science explores how certain technical aspects of geoinformation

Developing Advanced Web Services through P2P Computing and Autonomous Agents: Trends and Innovations - Ragab, Khaled 2010-06-30

Developing Advanced Web Services through P2P Computing and Autonomous Agents: Trends and Innovations establishes an understanding of autonomous peer-to-peer Web Service models and developments as well as extends growing literature on emerging technologies. This scholarly publication is an important reference for researchers and academics working in the fields of peer-to-peer computing, Web and grid services, and agent technologies.

E-collaborations and Virtual Organizations - Michelle W. L. Fong 2005-01-01

E-Collaboration promotes interaction between people over the Internet, and is vital in virtual organization arrangements where people co-exist or work together, independent of time and location. E-Collaborations and Virtual Organizations covers a broad range of topics, from underlying technological structures to fundamental mechanisms that are relevant to e-Collaboration and virtual organizations. The chapters in this book present some of the current work in the field and represent a resource upon which knowledge, lessons, and views can be drawn upon for consideration and applications in the virtual world.

Advanced Intelligent Systems for Sustainable Development (AI2SD'2019) - Mostafa Ezziyyani 2020-01-03

This book contains the latest researches on advanced intelligent systems applied in the field of education presented during the second edition of the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD'2019) held on July 08-11, 2019, in Marrakech, Morocco. The book proposes new approaches and innovative strategies for the manipulation of data and big data collected from the educational environment, exploiting the analysis tools, algorithms of artificial intelligence, and machine learning techniques, in order to extract results, which allow improving the performance and effectiveness of the education field, which is a strategic lever for sustainable development. The book deals with concepts, strategies, and approaches developed on various current axes of scientific research in the field of education, such as smart e-learning, smart education (smart classroom, smart assessment and smart teaching and learning technologies), massive open online courses (MOOC), courseware design, and development for smart learning, cloud learning, and mobile learning. The book is intended for all actors in the educational sector, namely students, professors, academic researchers, and stakeholders. It constitutes a large-scale forum for the exchange of ideas, approaches, and innovative techniques between these actors on the development and innovation of the field of education with the revolution 4.0. The authors of each chapter report the state of the art of the various topics addressed and present results of their own research, laboratory experiments, and successful applications. The purpose of this session is to share the idea of advanced intelligent systems with appropriate tools and techniques for modeling, management, and decision support in the field of education.