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OTOBIG - SMALL NICHOLSON

This book is concerned with the importance of Human Computer Interaction (HCI), Usability, user participants, and Sustainability in the Information Communication Technology (ICT) industry throughout the world. ICTs have become a crucial instrument for communication, entertainment, commerce and research and this increased usage is presenting new environmental and sustainability issues as we try and meet the ever-growing needs of both businesses and individuals. Sustainability and sustainable design must become central to the design of new technologies to make a concerted effort to tackle the environmental concerns we face now and in the future. Development frameworks, tools and models are used and explored, and the New Participative Methodology for Sustainable Design (NPMSD) is introduced as a way of identifying key factors needed in developing more sustainable systems including new smart technology and portable devices. In this book, the sustainable step in the design stage is evaluated and assessed by 11 countries: namely, Australia, Brazil, China, Germany, India, Norway, Singapore, South Korea, Sweden, UK, and USA. The new results are generated confirming that sustainable design awareness should be considered by designers, and users to minimize and reduce the carbon emissions, raw materials usage, and global warming, since these problems should be tackled soon, otherwise, it will be too late to solve it. Further research is needed in the future to implement and assess the sustainable design step with large IT companies to ensure compliance with environmental standards and rules for sustainable systems. Sustainable Design is an invaluable resource for students and researchers, designers and business managers who are interested in the human-centered, environmental concerns of sustainable technologies.

Tools of data comparison and analysis are critical in the field of archaeology, and the integration of technological advancements such as geographic information systems, intelligent systems, and virtual reality reconstructions with the teaching of archaeology is crucial to the effective utilization of resources in the field. E-Learning Methodologies and Computer Applications in Archaeology presents innovative instructional approaches for archaeological e-learning based on networked technologies, providing researchers, scholars, and professionals a comprehensive global perspective on the resources, development, application, and implications of information communication technology in multimedia-based educational products and services in archaeology.

This book constitutes the refereed proceedings of the 6th East European Conference on Advances in Databases and Information Systems ADBIS 2002, held in Bratislava, Slovakia in September 2002. The 25 revised full papers and 4 short papers presented together with 3 invited papers were carefully reviewed and selected from 115 submissions. The papers are organized in topical sections on data mining and knowledge discovery, mobile databases, spatiotemporal and spatial databases, multidimensional databases and information systems, object-oriented and deductive databases, data modeling and workflows, Web databases and semistructured data, and advanced systems and applications.

This book provides an overview of the current state of discussion from different perspectives. It starts with the European view. Representatives of the CEC present the political strategies and objectives of the IV Framework Programme regarding education and training supported by technology and telematics. International experts join the discussion, specifying political, cultural, sociological, psychological and market factors which determine the success of the implementation of new learning environments. How should learning systems be developed and evaluated: this question is tackled in the following section. Specific project descriptions show how the involvement of different user groups has been achieved: home learners, small and medium-sized enterprises, large companies, secondary and tertiary education. The perspective then shifts to the different components of learning systems: the management of virtual space, the economical production of learning material, the use of simulation... A more technology-oriented section discussing questions of different technologies and standards concludes the publication.

For the last two decades, IS researchers have conducted empirical studies leading to better understanding of the impact of Systems Analysis and Design methods in business, managerial, and cultural contexts. SA & D research has established a balanced focus not only on technical issues, but also on organizational and social issues in the information society. This volume presents the very latest, state-of-the-art research by well-known figures in the field. The chapters are grouped into three categories: techniques, methodologies, and approaches.

This book constitutes the refereed proceedings of the 8th International Conference on Object-Oriented Information Systems, OOIS 2002, held in Montpellier, France, in September 2002. The 34 revised full papers and 17 short papers presented were carefully reviewed and selected from 116 submissions. The papers are organized in topical sections on developing web services, object databases, XML and web, component and ontology, UML modeling, object modeling and information systems adaptation, e-business models and workflow, performance and method evaluation, programming and tests, software engineering metrics, web-based information systems, architecture and Corba, and roles and evolvable objects.

Covers central topics in information systems modeling and architectures. Includes the latest developments in information systems modeling, methods, and best practices.

"The book provides a link between theoretical research and web engineering, presenting a more holistic approach to web usability"--Provided by publisher.

Information Systems Development: Business Systems and Services: Modeling and Development, is the collected proceedings of the 19th International Conference on Information Systems Development held in Prague, Czech Republic, August 25 - 27, 2010. 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.

This book systematically identifies the lack of methodological support for development of require-

ments and software architecture in the state-of-the-art. To overcome this deficiency, the QuaDRA framework is proposed as a problem-oriented approach. It provides an instantiation of the Twin Peaks model for supporting the intertwining relationship of requirements and software architecture. QuaDRA includes several structured methods which guide software engineers in quality- and pattern-based co-development of requirements and early design alternatives in an iterative and concurrent manner.

This book is a result of the Tenth International Conference on Information Systems Development (ISD2001) held at Royal Holloway, University of London, United Kingdom, during September 5-7, 2001. ISD 2001 carries on the fine tradition established by the first Polish-Scandinavian Seminar on Current Trends in Information Systems Development Methodologies, held in Gdansk, Poland in 1988. Through the years, this seminar evolved into an International Conference on Information Systems Development. The Conference gives participants an opportunity to express ideas on the current state of the art in information systems development, and to discuss and exchange views on new methods, tools, applications as well as theory. In all, 55 papers were presented at ISD2001 organised into twelve tracks covering the following themes: Systems Analysis and Development, Modelling, Methodology, Database Systems, Collaborative Systems, Theory, Knowledge Management, Project Management, IS Education, Management issues, E-Commerce, and Technical Issues. We would like to thank all the contributing authors for making this book possible and for their participation in ISD2001. We are grateful to our panel of paper reviewers for their help and support. We would also like to express our sincere thanks to Ceri Bowyer and Steve Brown for their unfailing support with organising ISD2001.

This volume contains the proceedings of the 6th International Conference of the BCS Specialist Group on Information Systems Methodologies. The conference brought together papers on methodology issues related to the development and management of emerging technology based information systems. As usual there was a good range of papers addressing the 'soft' and 'hard' aspects of IS development and management. Methodologies for Developing and Managing Emerging Technology-based Information Systems will be of interest to practitioners who are engaged in systems development and modifying or aligning existing methodologies to practice.

This book examines influential ideas within Management Information Systems (MIS). Leading international contributors summarize key topics and explore a variety of issues currently being discussed in the field. They re-visit influential ideas such as socio-technical theory, systems thinking, and structuration theory and demonstrate their relevance to newer ideas such as re-engineering, hybrid management, knowledge workers, and outsourcing. In locating MIS within an interdisciplinary context, particularly in the light of rapid technological changes, this book will form the link between past and future approaches to MIS.

Knowledge Management in Emerging Economies: Social, Organizational and Cultural Implementation seeks focuses on knowledge management theoretical models and empirical research findings for developing economies. This book specifically seeks to understand the social, organizational, and cultural implementation aspects of knowledge management in the context of developing economies, and to discuss issues, challenges, and trends surrounding this implementation.

The objective of the workshops associated with the ER'99 18th International Conference on Conceptual Modeling is to give participants access to high level presentations on specialized, hot, or emerging scientific topics. Three themes have been selected in this respect: — Evolution and Change in Data Management (ECDM'99) dealing with handling the evolution of data and data structure, — Reverse Engineering in Information Systems (REIS'99) aimed at exploring the issues raised by legacy systems, — The World Wide Web and Conceptual Modeling (WWWCM'99) which analyzes the mutual contribution of WWW resources and techniques with conceptual modeling. ER'99 has been organized so that there is no overlap between conference sessions and the workshops. Therefore participants can follow both the conference and the workshop presentations they are interested in. I would like to thank the ER'99 program co-chairs, Jacky Akoka and Mokrane Bouzeghoub for having given me the opportunity to organize these workshops. I would also like to thank Stephen Liddle for his valuable help in managing the evaluation procedure for submitted papers and helping to prepare the workshop proceedings for publication. August 1999 Jacques Kouloumdjian Preface for ECDM'99 The first part of this volume contains the proceedings of the First International Workshop on Evolution and Change in Data Management, ECDM'99, which was held in conjunction with the 18th International Conference on Conceptual Modeling (ER'99) in Paris, France, November 15-18, 1999.

This book provides a fascinating reading experience for anyone interested in an inquiring relationship between technical progress and the quality of the human condition. It manages to keep a healthier balance between these two complex topics than is found in most publications of the genre. The book also manages to build accessible bridges over the gulf that tends to separate the philosophical language from the 'real' concerns of technologists.

"The book provides analyses and explains some of the contradictions and apparent paradoxes of many information systems quality perspectives"--Provided by publisher.

Information systems have become the backbone of all kinds of organizations - day. In almost every sector - manufacturing, education, health care, government and businesses large and small - information systems are relied upon for - eryday work, communication, information gathering and decision-making. Yet, the in?exibilities in current technologies and methods have also resulted in poor performance, incompatibilities and obstacles to change. As many organizations are reinventing themselves to meet the challenges of global competition and e-commerce, there is increasing pressure to develop and deploy new technologies that are ?exible, robust and responsive to rapid and unexpected change. Agent concepts hold great promise for responding to the new realities of - formation systems. They o?er higher-level abstractions and mechanisms which address issues such as knowledge representation and reasoning, communication, coordination, cooperation among heterogeneous and autonomous parties, p- ception, commitments, goals, beliefs, intentions, etc., all of which need conceptual modelling. On the one hand, the concrete implementation of these concepts can lead to ad-

vanced functionalities, e.g., in inference-based query answering, transaction control, adaptive work flows, brokering and integration of disparate information sources, and automated communication processes. On the other hand, their rich representational capabilities allow for more faithful and flexible treatments of complex organizational processes, leading to more effective requirements analysis and architectural/detailed design.

Organizational Learning and Knowledge: Concepts, Methodologies, Tools and Applications demonstrates exhaustively the many applications, issues, and techniques applied to the science of recording, categorizing, using and learning from the experiences and expertise acquired by the modern organization. A much needed collection, this multi-volume reference presents the theoretical foundations, research results, practical case studies, and future trends to both inform the decisions facing today's organizations and the establish fruitful organizational practices for the future. Practitioners, researchers, and academics involved in leading organizations of all types will find useful, grounded resources for navigating the ever-changing organizational landscape.

Summary: "The main objective of this book is to teach both students and practitioners of information systems, software engineering, computer science and related areas to analyze and design information systems using the FOOM methodology. FOOM combines the object-oriented approach and the functional (process-oriented) approach"--Provided by publisher.

Covers research in the area of systems analysis and design practices and methodologies.

Centered on the impact of information and communication technology in socio-technical environments and its support of human activity systems, the study of information systems remains a distinctive focus in the area of computer science research. **Information Systems Research and Exploring Social Artifacts: Approaches and Methodologies** discusses the approaches and methodologies currently being used in the field on information systems. This reference source covers a wide variety of socio-technical aspects of the design of IS artifacts as well as the study of their use. This book aims to be useful for researchers, scholars and students interested in expanding their knowledge on the assortment of research on information systems.

Includes articles in topic areas such as autonomic computing, operating system architectures, and open source software technologies and applications.

Knowledge Management and Knowledge Engineering is a fascinating field of research these days. In the beginning of EKAW, the modeling and acquisition of knowledge was the privilege of – or rather a burden for – a few knowledge engineers familiar with knowledge engineering paradigms and knowledge representation formalisms. While the aim has always been to model knowledge declaratively and allow for reusability, the knowledge models produced in these early days were typically used in single and very specific applications and rarely changed. Moreover, these models were typically rather complex, and they could be understood only by a few expert knowledge engineers. This situation has changed radically in the last few years as clearly indicated by the following trends: – The creation of (even formal) knowledge is now becoming more and more collaborative. Collaborative ontology engineering tools and social software platforms show the potential to leverage the wisdom of the crowds (or at least of “the many”) to lead to broader consensus and thus produce shared models which qualify better for reuse. – A trend can also be observed towards developing and publishing small but 2 3 4 high-impact vocabularies (e.g., FOAF, DublinCore, GoodRelations) rather than complex and large knowledge models.

Given the pervasive nature of information technology and information systems in the modern world, the design and development of IS and IT are critical issues of concern. New research topics continuously emerge in tandem with the latest developments in technology-E-Business, Knowledge Management, Business Process Reengineering, for example. However, when the initial flurry of research abates and the "gloss" of these areas has diminished somewhat, as it inevitably does, the enduring core issue remains as to how to develop systems to fully exploit these new areas. Both information systems and information technology are interpreted fairly broadly in this book. Of particular interest to the editors were research studies that facilitate an understanding of the role and impact of information technology on society, organizations, and individuals, and which strive to improve the design and use of information systems in that context. The contributions to the book are categorized into four broad themes. First is the core issue of developing information systems in the current environment. In this section several fundamental challenges to current assumptions and conventional wisdom in information systems development are posed. The second section considers the management of information systems. Again, the conventional wisdom is challenged. The penultimate section focuses on researching information systems. Here, various issues to do with research methods are surfaced, and the use of leading-edge research methods in information systems development is pioneered and discussed. Finally, a section is devoted to understanding information systems. This section addresses the perennial challenge in the IS field in relation to the conceptual foundations of the field. This volume comprises the proceedings of the Working Conference on Realigning Research and Practice in Information Systems Development: The Social and Organizational Perspective, which was sponsored by the International Federation for Information Processing (IFIP) and held in Boise, Idaho, USA in July 2001. Given the central importance of information systems development in the current age, this eclectic book, which considers the topic from a rich and varied set of perspectives, will be essential reading for researchers and practitioners working in all areas of IS and IT.

This book is a result of the Seventh International Conference on Information Systems Development-Methods and Tools, Theory and Practice held in Bled, Slovenia, September 21-23, 1998. The purpose of the conference was to address issues facing academia and industry when specifying, developing, managing, and improving information computerized systems. During the past few years, many new concepts and approaches emerged in the Information Systems Development (ISD) field. The various theories, methods, and tools available to system developers also bring problems such as choosing the most effective approach for a specific task. This conference provides a meeting place for IS researchers and practitioners from Eastern and Western Europe as well as from other parts of the world. An objective of the conference is not only to share scientific knowledge and interests but to establish strong professional ties among the participants. The Seventh International Conference on Information Systems Development-ISD'98 continues the concepts of the first Polish-Scandinavian Seminar on Current Trends in Information Systems Development Methodologies held in Gdansk, Poland in 1988. Through the years, the Seminar developed into the International Conference on Information Systems Development. ISD'99 will be held in Boise, Idaho. The selection of papers was carried out by the International Program Committee. All papers were reviewed in advance by three people. Papers were judged according to their originality, relevance, and presentation quality. All papers were judged only on their own merits, independent of other submissions.

Advanced Topics in Database Research is a series of books in the fields of database, software engi-

neering, and systems analysis and design. They feature the latest research ideas and topics on how to enhance current database systems, improve information storage, refine existing database models, and develop advanced applications. **Advanced Topics in Database Research, Volume 4** is a part of this series. **Advanced Topics in Database Research, Volume 4** is enriched with authors who have submitted their best works for inclusion in this scholarly book. **Advanced Topics in Database Research, Volume 4** is a useful reference and a valuable collection for both researchers and practitioners.

This book constitutes the refereed proceedings of the 6th International IFIP WG 2.13 Conference on Open Source Systems, OSS 2010, held in Notre Dame, IN, USA, in May/June 2010. The 23 revised full papers presented together with 17 short papers, 5 workshop abstracts and 4 panel descriptions were carefully reviewed and selected from 51 submissions. The papers reflect the international communities of active OSS researchers and present a broad range of perspectives on open source systems ranging from software engineering through organizational issues to law.

Knowledge Management has evolved into one of the most important streams of management research, affecting organizations of all types at many different levels. **The Encyclopedia of Knowledge Management, Second Edition** provides a compendium of terms, definitions and explanations of concepts, processes and acronyms addressing the challenges of knowledge management. This two-volume collection covers all aspects of this critical discipline, which range from knowledge identification and representation, to the impact of Knowledge Management Systems on organizational culture, to the significant integration and cost issues being faced by Human Resources, MIS/IT, and production departments.

"This book presents the latest research ideas and topics on databases and software development. It provides a representation of top notch research in all areas of database and information systems development"--Provided by publisher.

This volume contains the papers selected for presentation at the 14th International Symposium on Methodologies for Intelligent Systems, ISMIS 2003, held in Maebashi City, Japan, 28-31 October, 2003. The symposium was organized by the Maebashi Institute of Technology in co-operation with the Japanese Society for Artificial Intelligence. It was sponsored by the Maebashi Institute of Technology, Maebashi Convention Bureau, Maebashi City Government, Gunma Prefecture Government, US AFOSR/AOARD, the Web Intelligence Consortium (Japan), Gunma Information Service Industry Association, and Ryomo Systems Co., Ltd. ISMIS is a conference series that was started in 1986 in Knoxville, Tennessee. Since then it has been held in Charlotte (North Carolina), Knoxville (Tennessee), Turin (Italy), Trondheim (Norway), Warsaw (Poland), Zakopane (Poland), and Lyon (France). The program committee selected the following major areas for ISMIS 2003: active media human-computer interaction, autonomic and evolutionary computation, intelligent agent technology, intelligent information retrieval, intelligent information systems, knowledge representation and integration, knowledge discovery and data mining, logic for artificial intelligence, soft computing, and Web intelligence.

"The book deals with the concepts and applications of information systems research, both theoretical concepts of information systems research and applications"--Provided by publisher.

This book constitutes the refereed proceedings of the 11th International Conference on Telecommunications, ICT 2004, held in Fortaleza, Brazil in August 2004. The 188 revised full papers presented were carefully reviewed and selected from 430 submissions. The papers are organized in topical sections on multimedia services, antennas, transmission technologies and wireless networks, communication theory, telecommunication pricing and billing, network performance and telecommunication services, active network and mobile agents, optical photonic techniques, optical networks, ad-hoc networks, signal processing, network performance and MPLS, traffic engineering, SIP, Qos and switches, network operation management, mobility and broadband wireless, cellular system evolution, personal communication, satellites, mobility management, network reliability, ATM and Web services, security, switching and routing, next generation systems, wireless access, Internet, etc.

This set compiles more than 240 chapters from the world's leading experts to provide a foundational body of research to drive further evolution and innovation of these next-generation technologies and their applications, of which scientific, technological, and commercial communities have only begun to scratch the surface.

Provides comprehensive, in-depth coverage of all issues related to knowledge management, including conceptual, methodological, technical, and managerial issues. Presents the opportunities, future challenges, and emerging trends related to this subject.

Unified Modeling Language (UML) is a general-purpose notation language for specifying and visualizing complex software, especially large, object-oriented projects. Object-oriented programming is when a programmer defines not only the data type of a data structure, but also the types of operations/functions that can be applied to the data structure. Applying UML addresses the practical issues faced by users in adopting UML. As the title suggests, it helps the reader in actually applying UML to real life situations, rather than just in learning the language. The book covers in depth detail of UML, including notation on profiles and extensions. The scope of the book assumes prior experience in software engineering and/or business modeling, an understanding of object-oriented concepts and a basic knowledge of UML. * Case study driven approach covering a wide range of issues * Contains advanced tutorial material to aid learning * Focuses on practical issues in the application of UML

This book constitutes the refereed proceedings of the 17th International Conference on Model Driven Engineering Languages and Systems, MODELS 2014, held in Valencia, Spain, in September/October 2014. The 41 full papers presented in this volume were carefully reviewed and selected from a total of 126 submissions. The scope of the conference series is broad, encompassing modeling languages, methods, tools, and applications considered from theoretical and practical angles and in academic and industrial settings. The papers report on the use of modeling in a wide range of cloud, mobile, and web computing, model transformation behavioral modeling, MDE: past, present, future, formal semantics, specification, and verification, models at runtime, feature and variability modeling, composition and adaptation, practices and experience, modeling for analysis, pragmatics, model extraction, manipulation and persistence, querying, and reasoning.

Since the 1970s information system methodologies have proliferated rapidly, causing difficulties for those needing to select an appropriate methodology. This text provides a comparison study of methodologies by developing and using a conceptual framework. After discussing the wider information systems context and establishing and applying the framework to ethics, soft and structured methodologies, the author presents four research case studies and discusses the lessons that these provide. The work concludes with recommendations and guidelines for practical use.