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Fundamentals of Information Systems Network, Smart and Open Emerging Technologies for Information Systems, Computing, and Management Computer Information Systems in Management Information Systems, Management, Organization and Control Business Information Systems Workshops Accounting Information Systems for Decision Making Introduction to Geographic Information Systems Reshaping Accounting and Management Control Systems Algorithmic Foundations of Geographic Information Systems Organizational Change and Information Systems

Innovation Through Information Systems Introduction to Information Systems Introduction to Geographic Information Systems Introduction to Geographical Information Systems Lecture Notes Business Information Systems Workshops Transforming Healthcare Through Information Systems Information Retrieval Meets Information Visualization Databases in Networked Information Systems Business Information Systems Workshops Information Systems and e-Business Technologies Advanced Information Systems Engineering Information Systems: Modeling, Development, and Integration Information Systems Analysis and Design Novel Methods and Technologies for Enterprise Information Systems Organizational Innovation and Change Informatics Advances in Information Systems Development Fundamentals of Information Systems Information Systems and Management Science Sustainable e-Business Management Future Information Technology - II Advances in Information Systems Development Networked Control Systems Databases and Information Systems VII Computer Information Systems and Industrial Management The Strategic Management of Information Systems Computer Information Systems and Industrial Management Enabling Flexibility in Process-Aware Information Systems Photocopy

This book constitutes the proceedings of the 20th International Conference on Computer Information Systems and Industrial Management Applications, CISIM 2021, held in E?k, Poland, September 24–26, 2021. The 38 papers presented together with 1 invited speech and 3 abstracts of keynotes were carefully reviewed and selected from 69 submissions. The main topics covered by the chapters in this book are mobile and pervasive computing, machine learning, high performance computing, image processing, industrial management. Additionally, the reader will find interesting papers on computer information systems, biometrics, security systems, and sensor network service. The contributions are organized in the following topical sections: biometrics and pattern recognition applications; computer information systems and security; industrial management and other applications; machine learning and artificial neural networks; modelling and optimization, and others. Chapter 24 "A first step towards automated species recognition from camera trap images of mammals using AI in a European temperate forest" is published open access under a CC BY license (Creative Commons Attribution 4.0 International License). This book presents the current state of research in information systems and digital transformation. Due to the global trend of digitalization and the impact of the Covid 19 pandemic, the need for innovative, high-quality research on information systems is higher than ever. In this context,

the book covers a wide range of topics, such as digital innovation, business analytics, artificial intelligence, and IT strategy, which affect companies, individuals, and societies. This volume gathers the revised and peer-reviewed papers on the topic "Technology" presented at the International Conference on Information Systems, held at the University of Duisburg-Essen in 2021. With high hopes that the worst of the financial crisis is now behind us, our efforts looking forward must be more vigilant. Change is constant in the electronic business management landscape and we must continue to look for organizational efficiencies, competitive strength, strategic differentiation and value creation in both inter-organizational and collaborative settings. Seeking new and innovative application areas of information technology, in general, and e-business management solutions, in particular, while simultaneously critically evaluating and constantly challenging our own research contributions, methods and practices. It is for these reasons (and many more) that we are particularly excited about and grateful for the collection of papers included in this volume, LNBIP 58, on Sustainable e-Business Management. The papers selected in this volume address these emerging e-business issues and have been organized into three research lines: e-Business Models and IS in Financial Markets, e-Commerce Use and Design, and e-Business Research Issues and Methods. We are delighted to kick off the first group of papers e-Business Models

and IS in Financial Markets with a study by Masao Kakihara of Yahoo Research in Japan, proposing a dynamic revenue model framework and design. This section also includes a fresh look into two pressing e-business areas with Doerr, Benlian, Vetter and Hess's examination of content provider pricing of music as a service and Dutta and Menon's interesting study of the determinants of customer acquisition and e-tailer revenue. This book constitutes the proceedings of the 15th IFIP TC8 International Conference on Computer Information Systems and Industrial Management, CISIM 2016, held in Vilnius, Lithuania, in September 2016. The 63 regular papers presented together with 1 invited paper and 5 keynotes in this volume were carefully reviewed and selected from about 89 submissions. The main topics covered are rough set methods for big data analytics; images, visualization, classification; optimization, tuning; scheduling in manufacturing and other applications; algorithms; decisions; intelligent distributed systems; and biometrics, identification, security. This tutorial survey brings together two lines of research and development whose interaction promises to have significant practical impact on the area of spatial information processing in the near future: geographic information systems (GIS) and geometric computation or, more particularly, geometric algorithms and spatial data structures. In nine uniformly structured and coherent chapters, the authors present a unique survey ranging from the history and basic

characteristics to current issues of precision and robustness of geometric computing. This textbook is ideally suited for advanced courses on GIS and applied geometric algorithms. Research and design professionals active in the area will find it valuable as a state-of-the-art survey. This book constitutes revised papers from the seven workshops and one accompanying event which took place at the 21st International Conference on Business Information Systems, BIS 2018, held in Berlin, Germany, in July 2018. Overall across all workshops, 58 out of 122 papers were accepted. The workshops included in this volume are: AKTB 2018 - 10th Workshop on Applications of Knowledge-Based Technologies in Business BITA 2018 - 9th Workshop on Business and IT Alignment BSCT 2018 - 1st Workshop on Blockchain and Smart Contract Technologies IDEA 2018 - 4th International Workshop on Digital Enterprise Engineering and Architecture IDEATE 2018 - 3rd Workshop on Big Data and Business Analytics Ecosystems SciBOWater 2018 - Scientific Challenges & Business Opportunities in Water Management QOD 2018 - 1st Workshop on Quality of Open Data In addition, one keynote speech in full-paper length and contributions from the Doctoral Consortium are included In today's dynamic business world, the success of a company increasingly depends on its ability to react to changes in its environment in a quick and flexible way. Companies have therefore identified process agility as a competitive advantage to address

business trends like increasing product and service variability or faster time to market, and to ensure business IT alignment. Along this trend, a new generation of information systems has emerged—so-called process-aware information systems (PAIS), like workflow management systems, case handling tools, and service orchestration engines. With this book, Reichert and Weber address these flexibility needs and provide an overview of PAIS with a strong focus on methods and technologies fostering flexibility for all phases of the process lifecycle (i.e., modeling, configuration, execution and evolution). Their presentation is divided into six parts. Part I starts with an introduction of fundamental PAIS concepts and establishes the context of process flexibility in the light of practical scenarios. Part II focuses on flexibility support for pre-specified processes, the currently predominant paradigm in the field of business process management (BPM). Part III details flexibility support for loosely specified processes, which only partially specify the process model at build-time, while decisions regarding the exact specification of certain model parts are deferred to the run-time. Part IV deals with user- and data-driven processes, which aim at a tight integration of processes and data, and hence enable an increased flexibility compared to traditional PAIS. Part V introduces existing technologies and systems for the realization of a flexible PAIS. Finally, Part VI summarizes the main ideas of this book and gives an

outlook on advanced flexibility issues. The book's target groups include researchers, PhD students and Master students in the field of information systems. After reading the book, they will better understand PAIS flexibility aspects. To support the easy use as a textbook, a series of exercises is provided at the end of each chapter and slides and further teaching material are available on the book's web site [www.flexible-processes.com](http://www.flexible-processes.com). Professionals specializing in business process management (BPM) who want to obtain a good understanding of flexibility challenges in BPM and state-of-the-art solutions will also benefit from the presentations of open source as well as commercial process management systems and related practical scenarios. UNISCON 2009 (United Information Systems Conference) was the third conference in the series that is based on the idea to pool smaller but highly interesting scientific events on information systems into one large conference. Here, people from different scientific backgrounds can present their research results, share their ideas and discuss future trends in these various areas. UNISCON 2009 was held in Sydney, Australia in the University of Western Sydney, Campbelltown Campus. In 2009 the following scientific events were held under the umbrella of UNISCON 2009: th – 8 International Conference on Information Systems Technology and Its Applications (ISTA 2009) th – 8 International Workshop on Conceptual Modelling Approaches for e- Business (eCOMO 2009) – Second Workshop on Model-Based



Software and Data Integration (MBSDI 2009) We received 115 papers for the three events. Papers were submitted from over 25 countries. After a rigorous review process, 39 papers were accepted as full papers and 14 papers as short papers for presentation at the conference and published in these proceedings. In addition to the above three events, we also organized a Doctoral Consortium to provide a forum for doctoral students to get feedback from experts in the area about their research projects. This volume features a collection of papers on emerging concepts, significant insights, novel approaches and ideas in information systems development (ISD). It examines advances in ISD in general and investigates emerging trends that will shape the ISD research agenda beyond 2020. The book gathers selected papers from the 28th International Conference on Information Systems Development held in Toulon, France on August 28-30, 2019. The revised and extended papers explore the mutual influences between information systems and organizational structures, processes and people, and promote research into methodological issues and ways in which the IS designers and developers are transforming organizations and society through information systems. Chapter "Smart Grid Challenges through the lens of the European General Data Protection Regulation" is available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](http://link.springer.com) Combining the latest research and most

current coverage available into a succinct nine chapters, **FUNDAMENTALS OF INFORMATION SYSTEMS, 8E** equips students with a solid understanding of the core principles of IS and how it is practiced. The streamlined 560-page eighth edition features a wealth of new examples, figures, references, and cases as it covers the latest developments from the field--and highlights their impact on the rapidly changing role of today's IS professional. In addition to a stronger career emphasis, the text includes expanded coverage of mobile solutions, energy and environmental concerns, the increased use of cloud computing across the globe, and two cases per chapter. Learning firsthand how information systems can increase profits and reduce costs, students explore new information on e-commerce and enterprise systems, artificial intelligence, virtual reality, green computing, and other issues reshaping the industry. The text introduces the challenges and risks of computer crimes, hacking, and cyberterrorism. It also presents some of the most current research on virtual communities, global IS work solutions, and social networking. No matter where students' career paths may lead, **FUNDAMENTALS OF INFORMATION SYSTEMS, 8E** and its resources can help them maximize their success as employees, decision makers, and business leaders. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. The research domains information retrieval and

information visualization have always been independent from each other. However, they have the potential to be mutually beneficial. With this in mind, a writer school was organized in Zinal, Switzerland, in January 2012, within the context of the EU-funded research project PROMISE (Participative Research Laboratory for Multimedia and Multilingual Information Systems Evaluation). PROMISE aims at advancing the experimental evaluation of complex multimedia and multilingual information systems in order to support individuals, commercial entities, and communities who design, develop, employ, and improve such complex systems. The overall goal of PROMISE is to deliver a unified environment collecting data, knowledge, tools, and methodologies, and to help the user community involved in experimental evaluation. This book constitutes the outcome of the PROMISE Winter School 2012 and contains 11 invited lectures from the research domains information retrieval and information visualization. A large variety of subjects are covered, including hot topics such as crowdsourcing and social media. This book constitutes revised papers from the nine workshops and one accompanying event which took place at the 22nd International Conference on Business Information Systems, BIS 2019, held in Seville, Spain, in June 2019. There was a total of 139 submissions to all workshops of which 57 papers were accepted for publication. The workshops included in this volume are:

AKTB 2019: 11th Workshop on Applications of Knowledge-Based Technologies in Business  
BITA 2019: 10th Workshop on Business and IT Alignment  
BSCT 2019: Second Workshop on Blockchain and Smart Contract Technologies  
DigEX 2019: First International Workshop on transforming the Digital Customer Experience  
iCRM 2019: 4th International Workshop on Intelligent Data Analysis in Integrated Social CRM  
iDEATE 2019: 4th Workshop on Big Data and Business Analytics Ecosystems  
ISMAD 2019: Workshop on Information Systems and Applications in Maritime Domain  
QOD 2019: Second Workshop on Quality of Open Data  
SciBOWater 2019: Second Workshop on Scientific Challenges and Business Opportunities in Water Management

This book presents a collection of original research papers addressing the relationship between information systems (IS) and innovation.

“Open”, “Smart” and “Network” are three keywords that are currently guiding information systems (IS) innovation, enhancing IS potentialities and their ability to support decision-making processes. The book discusses the relevance of these three new concepts in connection with technological and organizational innovations (i.e. cloud, smart technologies and networking), and the role they play in the development of accounting and management information systems. The book’s primary aim is to investigate how these innovations could influence information systems (with a particular focus on

accounting and management information systems) by enhancing their information potentialities and improving accounting methodologies, performance measurement systems, data management, information systems architectures, and external and internal reporting. The book is based on a selection of the best papers—original double-blind reviewed contributions—presented at the 2016 Annual Conference of the Italian Chapter of the Association for Information Systems (AIS). This book constitutes the refereed proceedings of the 30th International Conference on Advanced Information Systems Engineering, CAiSE 2018, held in Tallinn, Estonia, in June 2018. The 37 papers presented in this volume were carefully reviewed and selected from 175 submissions. The papers are organized in topical sections on Process Execution, User-Oriented IS Development, Social Computing and Personalization, the Cloud and Data Services, Process Discovery, Decisions and the Blockchain, Process and Multi-level Modelling, Data Management and Visualization, Big Data and Intelligence, Data Modelling and Mining, Quality Requirements and Software, and Tutorials. This volume features a collection of papers on emerging concepts, significant insights, novel approaches and ideas in information systems research. It examines advances in information systems development in general, and their impact on the development of new methods, tools and management. The book contains invited papers selected

from the 27th International Conference on Information Systems Development (ISD) held in Lund, Sweden, August 22 - 24, 2018. The revised and expanded papers present research that focuses on methods, tools and management in information systems development. These issues are significant as they provide the basis for organizations to identify new markets, support innovative technology deployment, and enable mobile applications to detect, sense, interpret and respond to the environment. Databases and information systems are the backbone of modern information technology, and are crucial to the IT systems which support all aspects of our everyday life; from government, education and healthcare, to business processes and the storage of our personal photos and archives. This book presents 27 of the best revised papers selected from the 43 papers accepted following stringent peer review for the 2012 International Baltic Biennial Conference on Databases and Information Systems (Baltic DB&IS 2012), held in Vilnius, Lithuania, in July 2012. The conference provided a forum for the exchange of scientific achievements between the research communities of the Baltic countries and the rest of the world in the area of databases and information systems, bringing together researchers, practitioners and Ph.D. students from many countries. The subject areas covered at the conference included databases, data mining and optimization in IS, business modeling, cloud computing, IS engineering tools and techniques, as well as advanced

E-learning environments and technologies. The book also includes presentations from two of the invited speakers at the conference: Exponential Growth of ICT: How Long Can It Last, by Prof. Arne Sølvsberg and Variable Systems Model in Information Systems Development by Prof. Marite Kirikova. Informatics - 10 Years Back, 10 Years Ahead presents a unique collection of expository papers on major current issues in the field of computer science and information technology. The 26 contributions written by leading researchers on personal invitation assess the state of the art of the field by looking back over the past decade, presenting important results, identifying relevant open problems, and developing visions for the decade to come. This book marks two remarkable and festive moments: the 10th anniversary of the International Research and Conference Center for Computer Science in Dagstuhl, Germany and the 2000th volume published in the Lecture Notes in Computer Science series. This book aims to examine innovation in the fields of information technology, software engineering, industrial engineering, management engineering. Topics covered in this publication include; Information System Security, Privacy, Quality Assurance, High-Performance Computing and Information System Management and Integration. The book presents papers from The Second International Conference for Emerging Technologies Information Systems, Computing, and Management (ICM2012) which was held on December 1 to 2, 2012 in

Hangzhou, China. This new, shorter version of the successful *Principles of Information Systems* captures the authors' widely acclaimed "fundamentals" approach in a more manageable, 9-chapter format. Each chapter has been specifically written to cover the same business and technical topics with a minimum of extraneous details, to bring the focus back to the overarching principles of using technology in business. Makes a great bundle with applications texts! This book constitutes the refereed proceedings of UNISCON 2008 held in Klagenfurt, Austria, during April 22-25, 2008. UNISCON combines the ECOMO workshop series and the ISTA conference series. The 19 papers dealing with conceptual modeling, model-driven software development and information systems applications represent a 30% selection from the original set of submissions. They are completed by two keynote lectures and 35 papers from internationally renowned researchers, invited in honor of Heinrich C. Mayr, whose 60th birthday is also celebrated at this event, that he originally created. This book introduces ongoing reflections within the research community on established information systems development topics and emerging concepts, approaches and ideas in the field of healthcare information systems. By promoting research on theoretical and methodological issues related to both information systems development in general and healthcare information systems in particular, it presents current research in order to promote improved practice. It



comprises a selection of the best papers presented at the 24th International Conference on Information Systems Development (ISD) held in Harbin, China, August 25 – 27, 2015. The book introduces concepts, principles, methods and procedures that will be valuable to students and scholars in thinking about existing organization systems, proposing new systems and working with management professionals in implementing new information systems. This book of Information Systems and Management Science (proceedings of ISMS 2020) is intended to be used as a reference by students and researchers who collect scientific and technical contributions with respect to models, tools, technologies and applications in the field of information systems and management science. This textbook shows how to exploit information systems in a technology-rich management field. This book explores a range of critical issues and emerging topics relevant to the linkages between information technologies and organizational systems. It encourages debate and opens up new avenues of inquiry in the fields of Information Systems, organization and management studies by investigating selected themes of growing research interest from multiple disciplinary perspectives such as organizational innovation and impact, information technology, innovation transfer, and knowledge management. The volume is divided into two sections, each of which focuses on a specific theme: ICT, organizational innovation and change; and ICT and

knowledge management. The content of each section is based on a selection of the best papers (original double-blind peer-reviewed contributions) presented at the annual conference of the Italian chapter of the AIS, held in Genoa, Italy in November 2014. The new multimedia standards (for example, MPEG-21) facilitate the seamless integration of multiple modalities into interoperable multimedia frameworks, transforming the way people work and interact with multimedia data. These key technologies and multimedia solutions interact and collaborate with each other in increasingly effective ways, contributing to the multimedia revolution and having a significant impact across a wide spectrum of consumer, business, healthcare, education, and governmental domains. This book aims to provide a complete coverage of the areas outlined and to bring together the researchers from academic and industry as well as practitioners to share ideas, challenges, and solutions relating to the multifaceted aspects of this field. A comprehensively updated revision of a book regarded by many as one the leading and authoritative titles for practitioners, academics and students in the domain of information systems and technology (IS/IT) strategy. Presents a structured framework with tools, techniques and ways of thinking which provide a practical approach to building a digital strategy, expressed primarily in the language of business and management. Brings together the implications of the significant advances in IT and the

most useful current thinking, research, and experiences concerning the business impact and strategic opportunities created by IS/IT. Peppard and Ward discuss the key questions that managers have to grapple with of where, when and how to invest in IS/IT, which is why a IS/IT (or digital) strategy is required. This book contains a collection of research papers on accounting information systems including their strategic role in decision processes, within and between companies. An accounting system is a complex system composed of a mix of strictly interrelated elements such as data, information, human resources, IT tool, accounting models and procedures. Accounting information systems are often considered the instrument by default for accounting automation. This book aims to sketch a clear picture of the current state of AIS research, including design, acceptance and reliance, value-added decision making, interorganizational links, and process improvements. The contributions in this volume emphasize that AIS has grown into a powerful strategic tool. The book provides evidence for this observation by examining a wide range of current issues ranging from theory development in AIS to practical applications of accounting information systems. In particular it focuses on themes of growing interest in the realm of XBRL and Financial Reporting, Management Information Systems, IT/IS Audit and IT/IS Compliance. The book will be of interest to financial and managerial accountants and IT/IS practitioners, including information

systems managers and consultants. This volume presents the revised and peer reviewed contributions of the 'ERP Future 2013' conference held in Vienna/Austria on November 12-13th, 2013. The ERP Future 2013 Research conference is a scientific platform for research on enterprise information systems in general and specifically on core topics like business process management (BPM), business intelligence (BI) and enterprise resource planning (ERP) systems. Besides the scientific community the event also addresses businesses developing, implementing and intensively using enterprise information systems. To master the challenges of enterprise information systems comprehensively, the ERP Future 2013 Research conference accepted contributions with a business as well as an IT focus to consider enterprise information systems from various viewpoints. This combination of business and IT aspects is a unique characteristic of the conference that resulted in several valuable contributions with high theoretical as well as practical impact. This book explores the diversity of topics, views and perspectives focused on the relationship between information systems, organizations and managerial control. It brings together theories and practices by a diverse group of scholars working in different disciplines: organization, management, accounting, information systems development, human-computer interaction. The volume is divided into three sections, each one focusing on a specific theme:

organizational change, innovation and information and communication technologies; organizational control, accounting and information systems; information, knowledge and project management practices. The book is based on a selection of the best research papers - original double blind peer reviewed contributions of the annual conference of the Italian chapter of AIS, held in Milan, Italy in December 2013. This book examines a range of issues emerging from the interaction of Information Technologies and organizational systems. It contains a collection of research papers focusing on themes of growing interest in the field of Information Systems, Organization Studies, and Management. The book offers a multidisciplinary view on Information Systems aiming to disseminate academic knowledge. It might be particularly relevant to IT practitioners such as information systems managers, business managers and IT consultants. The volume is divided into six sections, each one focusing on a specific theme. The content of each section is based on a selection of the best papers (original double blind peer reviewed contributions) presented at the annual conference of the Italian chapter of AIS, which has been held in Rome, Italy in September 2012. This document contains Lecture Notes and supplements, primarily PowerPoint presentations, for the class X422 Introduction to Information Systems Analysis and Design at the University of California Berkeley Extension. They are designed as a resource for students who take the class.

This is the first course in a series covering information analysis and logical specification of the system development process in an organizational context. It emphasizes the interactive nature of the analysis and design process. Today, more than ever, it is important to formulate plans and ideas in some structured manner before attempting to develop a solution to a problem or procedure. Most everything we do in life is a part of some system. In order to understand any system, the system must be analyzed. By the same token, to be able to design any system, one must have extensive knowledge about what the design objectives are. This course explores systems analysis and design from the early days of second generation systems development up to and including graphical user interface design and development (GUI). This course then, is intended to teach the beginning student to think in terms of the "big picture" in problem solving and designing systems by defining specific objectives. This is the Black & White edition of this book; a full-color edition is also available. WHATS IN IT FOR ME? Information technology lives all around us-in how we communicate, how we do business, how we shop, and how we learn. Smart phones, iPods, PDAs, and wireless devices dominate our lives, and yet it's all too easy for students to take information technology for granted. Rainer and Turban's Introduction to Information Systems, 2nd edition helps make Information Technology come alive in the classroom. This text takes students where IT

lives-in today's businesses and in our daily lives while helping students understand how valuable information technology is to their future careers. The new edition provides concise and accessible coverage of core IT topics while connecting these topics to Accounting, Finance, Marketing, Management, Human resources, and Operations, so students can discover how critical IT is to each functional area and every business. Also available with this edition is WileyPLUS - a powerful online tool that provides instructors and students with an integrated suite of teaching and learning resources in one easy-to-use website. The WileyPLUS course for Introduction to Information Systems, 2nd edition includes animated tutorials in Microsoft Office 2007, with iPod content and podcasts of chapter summaries provided by author Kelly Rainer. This book constitutes the refereed proceedings of the 7th International Workshop on Databases in Networked Information Systems, DNIS 2011, held in Aizu-Wakamatsu, Japan in December 2011. The 18 revised full papers presented together with 6 invited talks and 1 keynote lecture were carefully reviewed and selected for inclusion in the book. The workshop generally puts the main focus on data semantics and infrastructure for information management and interchange. The papers are organized in topical sections on cloud computing; access to information resources; information and knowledge management; bio-medical information management; information extraction from

data resources; geo-spatial decision making; networked information systems: infrastructure. This book constitutes the refereed proceedings of the four workshops that were organized in conjunction with the International Conference on Business Information Systems, BIS 2013, which took place in Poznań, Poland, in June 2013. BIS workshops give researchers the opportunity to share their preliminary ideas and first experimental results and to discuss research hypotheses with a highly focused audience. The 25 papers in this volume were carefully reviewed and selected from 47 submissions and were revised and extended after the event. The workshop topics covered applications and economics of knowledge-based technologies (AKTB), business and IT alignment (BITA), enterprise systems for higher education (ESHE) and formal semantics for future enterprises (FSFE). In addition, two keynotes as well as ten papers presented at the PhD Symposium are also included in this volume. This book finds its origin in the WIDE PhD School on Networked Control Systems, which we organized in July 2009 in Siena, Italy. Having gathered experts on all the aspects of networked control systems, it was a small step to go from the summer school to the book, certainly given the enthusiasm of the lecturers at the school. We felt that a book collecting overview on the important developments and open problems in the field of networked control systems could stimulate and support future research in this appealing area. Given the



tremendous current interests in distributed control exploiting wired and wireless communication networks, the time seemed to be right for the book that lies now in front of you. The goal of the book is to set out the core techniques and tools that are available for the modeling, analysis and design of networked control systems. Roughly speaking, the book consists of three parts. The first part presents architectures for distributed control systems and models of wired and wireless communication networks. In particular, in the first chapter important technological and architectural aspects on distributed control systems are discussed. The second chapter provides insight in the behavior of communication channels in terms of delays, packet loss and information constraints leading to suitable modeling paradigms for communication networks. This book examines the relationship between digital innovations on the one hand, and accounting and management information systems on the other. In particular it addresses topics including cloud computing, data mining, XBRL, and digital platforms. It presents an analysis of how new technologies can reshape accounting and management information systems, enhancing their information potentialities and their ability to support decision-making processes, as well as several studies that reveal how managerial information needs can affect and reshape the adoption of digital technologies. Focusing on the four major aspects data management, information system architecture, external and internal

reporting, the book offers a valuable resource for CIOs, CFOs and more generally for business managers, as well as for researchers and scholars. It is mainly based on a selection of the best papers - original double blind reviewed contributions - presented at the 2015 Annual Conference of the Italian Chapter of the Association for Information Systems (AIS).

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