

# Researching Information Systems And Computing

"This book offers new ideas and recent developments in Natural Computing, especially on artificial immune systems"--Provided by publisher.

Written specifically for information systems (IS) and computing students and providing everything they need to know about executing a research project, this best-selling textbook introduces key quantitative and qualitative research methods, makes sense of underlying philosophies, and helps readers navigate and assess existing academic papers. Packed with examples from the IS and computing disciplines, definitions, evaluation guides and further reading suggestions, this fully updated second edition of Research Information Systems and Computing supports students of all levels in bridging the gap between theory and practice.

Ensuring an efficient and agile information system in organizations is a real challenge. Only an agile IT strategy can underpin this. Strategic Information System Agility offers methodological and practical support to achieve effective IT agility in complex and dynamic environments.

The field of computational intelligence has grown tremendously over that past five years, thanks to evolving soft computing and artificial intelligent methodologies, tools and techniques for envisaging the essence of intelligence embedded in real life observations. Consequently, scientists have been able to

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explain and understand real life processes and practices which previously often remain unexplored by virtue of their underlying imprecision, uncertainties and redundancies, and the unavailability of appropriate methods for describing the incompleteness and vagueness of information represented. With the advent of the field of computational intelligence, researchers are now able to explore and unearth the intelligence, otherwise insurmountable, embedded in the systems under consideration. Computational Intelligence is now not limited to only specific computational fields, it has made inroads in signal processing, smart manufacturing, predictive control, robot navigation, smart cities, and sensor design to name a few. Recent Trends in Computational Intelligence Enabled Research: Theoretical Foundations and Applications explores the use of this computational paradigm across a wide range of applied domains which handle meaningful information. Chapters investigate a broad spectrum of the applications of computational intelligence across different platforms and disciplines, expanding our knowledge base of various research initiatives in this direction. This volume aims to bring together researchers, engineers, developers and practitioners from academia and industry working in all major areas and interdisciplinary areas of computational intelligence, communication systems, computer networks, and soft computing. Provides insights into the theory, algorithms, implementation, and application of computational intelligence techniques Covers a wide range of applications of deep learning across various domains which are researching the

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applications of computational intelligence Investigates novel techniques and reviews the state-of-the-art in the areas of machine learning, computer vision, soft computing techniques

"Calvo and Peters explain that technologists' growing interest in social good is part of a larger public concern about how our digital experience affects our emotions and our quality of life--which itself reflects an emerging focus on humanistic values in many different disciplines. Synthesizing theory, knowledge, and empirical methodologies from a variety of fields, they offer a rigorous and coherent foundational framework for positive computing. Sidebars by experts from psychology, neuroscience, human-computer interaction, and other disciplines supply essential context. Calvo and Peters examine specific well-being factors, including positive emotions, self-awareness, mindfulness, empathy, and compassion, and explore how technology can support these factors. Finally, they offer suggestions for future research and funding." --Publisher's description.

Research Methods: Information, Systems, and Contexts, Second Edition, presents up-to-date guidance on how to teach research methods to graduate students and professionals working in information management, information science, librarianship, archives, and records and information systems. It provides a coherent and precise account of current research themes and structures, giving students guidance, appreciation of the scope of research paradigms, and the consequences of specific courses of action. Each of these valuable

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sections will help users determine the relevance of particular approaches to their own questions. The book presents academics who teach research and information professionals who carry out research with new resources and guidance on lesser-known research paradigms. Provides up-to-date knowledge of research methods and their applications Provides a coherent and precise account of current research themes and structures through chapters written by authors who are experts in their fields Helps students and researchers understand the range of quantitative and qualitative approaches available for research, as well as how to make practical use of them Provides many illustrations from projects in which authors have been involved, to enhance understanding Emphasises the nexus between formulation of research question and choice of research methodology Enables new researchers to understand the implications of their planning decisions "Information Systems for Business and Beyond introduces the concept of information systems, their use in business, and the larger impact they are having on our world."--BC Campus website.

With the quantity and quality of available works in Information Systems (IS) research, it would seem advantageous to possess a concise list of exemplary works on IS research, in order to enable instructors of IS research courses to better prepare students to publish in IS venues. To that end, The Handbook of Information Systems Research provides a collection of works on a variety of topics related to IS research. This book provides a fresh perspective on issues related to IS

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research by providing chapters from world-renowned leaders in IS research along with chapters from relative newcomers who bring some interesting and often new perspectives to IS research. This book should serve as an excellent text for a graduate course on IS research methods.

Rapid technological advancement has given rise to new ethical dilemmas and security threats, while the development of appropriate ethical codes and security measures fail to keep pace, which makes the education of computer users and professionals crucial. The Encyclopedia of Information Ethics and Security is an original, comprehensive reference source on ethical and security issues relating to the latest technologies.

Covering a wide range of themes, this valuable reference tool includes topics such as computer crime, information warfare, privacy, surveillance, intellectual property and education. This encyclopedia is a useful tool for students, academics, and professionals.

This book is the essential guide for any student undertaking a computing/IS project, and will give you everything you need to achieve outstanding results. Undertaking a project is a key component of nearly all computing/information systems degree programmes at both undergraduate and postgraduate levels. Projects in Computing and Information Systems covers the four key aspects of project work (planning, conducting, presenting and taking the project further) in chronological fashion, and provides the reader with the skills to excel.

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It is 5 years since the publication of the seminal paper on “Design Science in Information Systems Research” by Hevner, March, Park, and Ram in MIS Quarterly and the initiation of the Information Technology and Systems department of the Communications of AIS. These events in 2004 are markers in the move of design science to the forefront of information systems research. A sufficient interval has elapsed since then to allow assessment of from where the field has come and where it should go. Design science research and behavioral science research started as dual tracks when IS was a young field. By the 1990s, the influx of behavioral scientists started to dominate the number of design scientists and the field moved in that direction. By the early 2000s, design people were having difficulty publishing in mainline IS journals and in being tenured in many universities. Yes, an annual Workshop on Information Technology and Systems (WITS) was established in 1991 in conjunction with the International Conference on Information Systems (ICIS) and grew each year. But that was the extent of design science recognition. Fortunately, a revival is underway. By 2009, when this foreword was written, the fourth DESRIST conference has been held and plans are afoot for the 2010 meeting. Design scientists regained respect and recognition in many venues where they previously had little. Qualitative research has become a legitimate

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approach within the information systems community, but researchers have traditionally drawn upon material from the social sciences given the absence of a single source relevant to them. *Qualitative Research in Information Systems: A Reader* represents just such a volume and is both timely and relevant. Information systems and qualitative research articles are now widely used for teaching on many upper level courses in information systems, and there is demand for a definitive collection of these readings as a basic reader and teaching text. This book expertly brings together the seminal works in the field, along with editorial introductions to assist the reader in understanding the essential principles of qualitative research. The book is organised according to the following thematic sections: - Part I: Overview of Qualitative Research - Part II: Philosophical Perspectives - Part III: Qualitative Research Methods - Part IV: Modes of Analyzing and Interpreting Qualitative Data *Qualitative Research in Information Systems: A Reader* should become the benchmark reference point for students and researchers in information systems, management science and others involved in information technology needing to learn about qualitative research.

With everything readers need to know about how to execute their research project, this book is written specifically for information systems (IS) and

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computing students. It introduces key quantitative and qualitative research methods, makes sense of underlying philosophies, and will help readers navigate and assess existing published academic papers. Throughout readers are supported by pedagogical features such as learning objectives, explanations, discussion questions, evaluation guides and suggestions for further reading. This book synthesizes the findings of three workshops on research issues in high-performance computing and communications (HPCC). It focuses on the role that computing and communications can play in supporting federal, state, and local emergency management officials who deal with natural and man-made hazards (e.g., toxic spills, terrorist bombings). The volume also identifies specific research challenges for HPCC in meeting unmet technology needs in crisis management and other nationally important application areas, such as manufacturing, health care, digital libraries, and electronic commerce and banking.

"This book goes beyond traditional discussion on technology enhanced learning provides research and insights on increasing the efficiency of learning for individuals and groups, facilitating the transfer and sharing of knowledge in organizations, and understanding of the learning process by exploring links among human learning, cognition, and technologies. "--Provided by publisher.

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"This book offers a new look at the latest research and critical issues within the field of information systems by creating solid theoretical frameworks and the latest empirical findings of social developments"--

"This book presents useful strategies, techniques, and tools for the successful design, development, and implementation of enterprise information systems"--Provided by publisher.

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.

Computers, communications, digital information, softwareâ€"the constituents of the information ageâ€"are everywhere. Being computer literate, that is technically competent in two or three of todayâ€™s software applications, is not enough anymore. Individuals who want to realize the potential value of information technology (IT) in their everyday lives need to be computer fluentâ€"able to use IT effectively today and to adapt to changes tomorrow. Being Fluent with Information Technology sets the standard for what everyone

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should know about IT in order to use it effectively now and in the future. It explores three kinds of knowledge—intellectual capabilities, foundational concepts, and skills—that are essential for fluency with IT. The book presents detailed descriptions and examples of current skills and timeless concepts and capabilities, which will be useful to individuals who use IT and to the instructors who teach them.

"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.

The U.S. Air Force is developing new force capabilities appropriate to an emerging array of threats. It is clear that advances in information science and technology (IS&T) are essential for most of these new capabilities. As a consequence, the Air Force is finding it necessary to refocus its IS&T basic research program to provide stronger support for reaching these goals. To assist this effort, the AFOSR asked the NRC for a study to create a vision and plan for the IS&T-related programs within the Office's Mathematics and Space Science Directorate. This report provides an assessment of basic research needs for Air Force systems and communications, software, information management and integration, and human interactions with IS&T systems. The report also offers a set of priorities for basic IS&T research, and an analysis of funding mechanisms its support.

"This book provides a comprehensive understanding and coverage of the various theories, models and related research approaches used within IS research"--Provided by publisher.

Researching Information Systems and Computing SAGE

With everything readers need to know about how to execute their research project, this book is written specifically for information systems (IS) and computing students. It

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introduces key quantitative and qualitative research methods, makes sense of underlying philosophies, and helps readers navigate and assess existing academic papers. Special features support students as they bridge the gap between theory and practice. These include: - research examples from the IS and computing disciplines; - suggestions on how to build internet research into each method mentioned; - an explanation of how knowledge is created, drawing an analogy between this and the creation of software systems Throughout, readers are supported by pedagogical features such as learning objectives, explanations, discussion questions, evaluation guides and further reading.

"This book provides a collection of successful designs, defined as communicative relation-building solutions, for individuals and collectives of interlocutors. It includes a longitudinal perspective of past mistakes, current trends and future opportunities, and is a must-have for beginners in the field as well as qualified professionals exploring the full potential of human interactions"--Provided by publisher.

Computers at Risk presents a comprehensive agenda for developing nationwide policies and practices for computer security. Specific recommendations are provided for industry and for government agencies engaged in computer security activities. The volume also outlines problems and opportunities in computer security research, recommends ways to improve the research infrastructure, and suggests topics for investigators. The book explores the diversity of the field, the need to engineer countermeasures based on speculation of what experts think computer attackers may do next, why the technology community has failed to respond to the need for enhanced security systems, how innovators could be encouraged to bring more options to the marketplace, and balancing the importance of security against the right of privacy.

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The end of dramatic exponential growth in single-processor performance marks the end of the dominance of the single microprocessor in computing. The era of sequential computing must give way to a new era in which parallelism is at the forefront. Although important scientific and engineering challenges lie ahead, this is an opportune time for innovation in programming systems and computing architectures. We have already begun to see diversity in computer designs to optimize for such considerations as power and throughput. The next generation of discoveries is likely to require advances at both the hardware and software levels of computing systems. There is no guarantee that we can make parallel computing as common and easy to use as yesterday's sequential single-processor computer systems, but unless we aggressively pursue efforts suggested by the recommendations in this book, it will be "game over" for growth in computing performance. If parallel programming and related software efforts fail to become widespread, the development of exciting new applications that drive the computer industry will stall; if such innovation stalls, many other parts of the economy will follow suit. The Future of Computing Performance describes the factors that have led to the future limitations on growth for single processors that are based on complementary metal oxide semiconductor (CMOS) technology. It explores challenges inherent in parallel computing and architecture, including ever-increasing power consumption and the escalated requirements for heat dissipation. The book delineates a research, practice, and education agenda to help overcome these challenges. The Future of Computing Performance will guide researchers, manufacturers, and information technology professionals in the right direction for sustainable growth in computer performance, so that we may all enjoy the next level of benefits to society.

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The flood of information technology (I.T.) products and services entering the market place often obscures the need to nurture the research enterprise. But as I.T. becomes integrated into all aspects of society, the need for research is even greater. And the range of issues that need to be addressed is broader than ever. This new book highlights the fundamental importance of research to ensure that I.T. meets society's expanding needs. Against the background of dramatic change in the I.T. landscape, the committee examines four key questions: Is the scope of I.T. research broad enough-particularly in the arena of large-scale systems-to address government, business, and social applications? Are government and industrial sponsors providing sufficient funding for I.T. research? Is the research net big both big and diverse enough to capture sufficient financial and intellectual resources to advance the field? Are structures and mechanisms for funding and conducting research suited to the new sets of research challenges?

This guide for students and faculty discusses opportunities and implications of conducting research in a digital environment.

Whilst Information Systems has the potential to widen our view of the world, it often has the opposite effect by limiting our ability to interact, facilitating managerial and state surveillance or instituting strict hierarchies and personal control. In this book, Bernd Stahl offers an alternative and critical perspective on the subject, arguing that the ongoing problems in this area could be caused by the misconceptualization of the nature and role of IS. Stahl discusses the question of how IS can be used to actually overcome oppression and promote emancipation, breaking the book into four sections. The first section covers the theory of critical research in IS, giving a central place for the subject of ethics. The second section discusses the philosophical

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underpinnings of this critical research. The third and largest section gives examples of the application of critical work in IS. The final section then reflects on the approach and suggests ways for further development.

The past 50 years have witnessed a revolution in computing and related communications technologies. The contributions of industry and university researchers to this revolution are manifest; less widely recognized is the major role the federal government played in launching the computing revolution and sustaining its momentum. *Funding a Revolution* examines the history of computing since World War II to elucidate the federal government's role in funding computing research, supporting the education of computer scientists and engineers, and equipping university research labs. It reviews the economic rationale for government support of research, characterizes federal support for computing research, and summarizes key historical advances in which government-sponsored research played an important role. *Funding a Revolution* contains a series of case studies in relational databases, the Internet, theoretical computer science, artificial intelligence, and virtual reality that demonstrate the complex interactions among government, universities, and industry that have driven the field. It offers a series of lessons that identify factors contributing to the success of the nation's computing enterprise and the government's role within it. Computers and telecommunications have revolutionized the processes of scientific research. How is this information technology being applied and what difficulties do scientists face in using information technology? How can these difficulties be overcome? *Information Technology and the Conduct of Research* answers these questions and presents a variety of helpful examples. The recommendations address the problems scientists experience in trying to gain the most benefit from information technology in scientific, engineering,

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and clinical research.

*Critical Management Perspectives on Information Systems* provides a coherent set of reference points to show students and researchers the organizational issues of information systems in theory, method and practice. Combining fresh and insightful contributions from lead researchers in the field, the book illustrates the diversity of approaches to critical research, presents practical examples and demonstrates the lessons learnt from applying a critical approach. Exploring the management and organizational issues of information systems from a range of critical theory viewpoints, *Critical Management Perspectives on Information Systems* sets out the key theoretical underpinnings of different critical approaches and considers the issues associated with designing critical methodologies for systems design and study. The book is suitable for final year undergraduate, research and postgraduate courses in information systems, management and organizational studies.

This book includes a selection of the articles accepted for presentation and discussion at the second International Symposium on Qualitative Research (ISQR2017), held in Salamanca, Spain, July 12-14, 2017. ISQR2017 is part of the Iberian-American Congress on Qualitative Research (CIAIQ), and featured four main application fields (Education, Health, Social Sciences, and Engineering and Technology) and seven main subjects: Rationale and Paradigms of Qualitative Research; Systematization of approaches with Qualitative Studies; Qualitative and Mixed Methods Research; Data Analysis Types; Innovative Processes of Qualitative Data Analysis; Qualitative Research in Web Contexts; Qualitative Analysis with the Support of Specific Software. This book is a valuable resource for academics, researchers, teachers and students who need information on the above topics, as well as on the use of Computer Assisted Qualitative Data Analysis

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(CAQDAS).

Provides a collection of authoritative articles from distinguished international researchers in information technology and Web engineering.

Philosophical paradigms, theoretical frameworks, and methodologies make up the answering and problem solving systems that define current research approaches. While there are multiple research method books, the subject lacks an update and integrated source of reference for graduate courses. Research Methodologies, Innovations and Philosophies in Software Systems Engineering and Information Systems aims to advance scientific knowledge on research approaches used in systems engineering, software engineering, and information systems and to update and integrate disperse and valuable knowledge on research approaches. This aims to be a collection of knowledge for PhD students, research-oriented faculty, and instructors of graduate courses.

Since computer scientists make decisions every day that have societal context and influence, an understanding of society and computing together should be integrated into computer science education. Showing students what they can do with their computing degree, *Computers and Society: Computing for Good* uses concrete examples and case studies to highlight the positive work of real computing professionals and organizations from around the world. Each chapter profiles a corporation, nonprofit organization, or entrepreneur involved in computing-centric activities that clearly benefit society or the environment, including cultural adaptation in a developing country, cutting-edge medicine and healthcare, educational innovation, endangered species work, and help for overseas voters. The coverage of computing topics spans from social networking to high-performance computing. The diversity of people and activities

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in these profiles gives students a broad vision of what they can accomplish after graduation. Pedagogical Features Encouraging students to engage actively and critically with the material, the book offers a wealth of pedagogical sections at the end of each chapter. Questions of varying difficulty ask students to apply the material to themselves or their surroundings and to think critically about the material from the perspective of a future computing professional. The text also gives instructors the option to incorporate individual projects, team projects, short projects, and semester-long projects. Other resources for instructors and students are available at [www.computers-and-society.com](http://www.computers-and-society.com) Visit the author's blog at <http://computing4society.blogspot.com>

Explores cloud computing, breaking down the concepts, models, mechanisms, and architectures of this technology while allowing for the financial assessment of resources and how they compare to traditional storage systems.

Innovative 2nd edition, heavily updated and revised from the 1st edition Introduction to various survey and evaluation methods involving IT systems in the healthcare setting Critical overview of current research in health and social sciences Emphasizes multi-method approach to system evaluation Includes instruments suitable for research and evaluation Discusses computer programs for data analysis and evaluation resources Essential reference for anyone involved in planning, developing, implementing, utilizing, evaluating, or studying computer-based health care systems

Computing Handbook, Third Edition: Computer Science and Software Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery (ACM) and the IEEE Computer Society (IEEE-CS). Written by established leading experts and influential young researchers, the first volume of this popular handbook examines the elements

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involved in designing and implementing software, new areas in which computers are being used, and ways to solve computing problems. The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals. Like the second volume, this first volume describes what occurs in research laboratories, educational institutions, and public and private organizations to advance the effective development and use of computers and computing in today's world. Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing education, research, and development in the twenty-first century.

Research Methods in Human-Computer Interaction is a comprehensive guide to performing research and is essential reading for both quantitative and qualitative methods. Since the first edition was published in 2009, the book has been adopted for use at leading universities around the world, including Harvard University, Carnegie-Mellon University, the University of Washington, the University of Toronto, HiOA (Norway), KTH (Sweden), Tel Aviv University (Israel), and many others. Chapters cover a broad range of topics relevant to the collection and analysis of HCI data, going beyond experimental design and surveys, to cover ethnography, diaries, physiological measurements, case studies, crowdsourcing, and other essential elements in the well-informed HCI researcher's toolkit. Continual technological evolution has led to an explosion of new techniques and a need for this updated 2nd edition, to reflect the most recent research in the field and newer trends in research methodology. This Research Methods in HCI revision contains updates throughout, including more detail on statistical tests, coding qualitative data, and data collection

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via mobile devices and sensors. Other new material covers performing research with children, older adults, and people with cognitive impairments. Comprehensive and updated guide to the latest research methodologies and approaches, and now available in EPUB3 format (choose any of the ePub or Mobi formats after purchase of the eBook). Expanded discussions of online datasets, crowdsourcing, statistical tests, coding qualitative data, laws and regulations relating to the use of human participants, and data collection via mobile devices and sensors New material on performing research with children, older adults, and people with cognitive impairments, two new case studies from Google and Yahoo!, and techniques for expanding the influence of your research to reach non-researcher audiences, including software developers and policymakers

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