

Information And Communication Technologies In Public Administration Innovations From Developed Countries Public Administration And Public Policy

Emphasizes the need to consider the geographic, historic, and cultural context of an information communication technology (ICT) for development initiative. This work includes several real examples that show some of the key success factors that have to be taken into consideration when using ICTs for development. It is a tool for practitioners.

This book covers the basic issues and principles of information and communication technologies. It explains the key theories, techniques and applications of this field for both academic and professional audiences. Beginning with an overview of information and communication networks and architecture, the text explores information theory, coding and modulation schemes, wave propagation, wireless and wireline communications, network security, network management, network planning and optimisation methods for digital communication networks.

Mobile phones are close to ubiquitous in developing countries; Internet and broadband access are becoming commonplace. Information and communication technologies (ICTs) thus represent the fastest, broadest and deepest technical change experienced in international development. They now affect every development sector – supporting the work of hundreds of millions of farmers and micro-entrepreneurs; creating millions of ICT-based jobs; assisting healthcare workers and teachers; facilitating political change; impacting climate change; but also linked with digital inequalities and harms – with the pace of change continuously accelerating. Information and Communication Technology for Development (ICT4D) provides the first dedicated textbook to examine and explain these emerging phenomena. It will help students, practitioners, researchers and other readers understand the place of ICTs within development; the ICT-enabled changes already underway; and the key issues and interventions that engage ICT4D practice and strategy. The book has a three-part structure. The first three chapters set out the foundations of ICT4D: the core relation between ICTs and development; the underlying components needed for ICT4D to work; and best practice in implementing ICT4D. Five chapters then analyse key development goals: economic growth, poverty eradication, social development, good governance and environmental sustainability. Each chapter assesses the goal-related impact associated with ICTs and key lessons from real-world cases. The final chapter looks ahead to emerging technologies and emerging models of ICT-enabled development. The book uses extensive in-text diagrams, tables and boxed examples with chapter-end discussion and assignment questions and further reading. Supported by online activities, video links, session outlines and slides, this textbook provides the basis for undergraduate, postgraduate and online learning modules on ICT4D.

The Handbook of Research on Information Communication Technology Policy: Trends, Issues and Advancements provides a comprehensive and reliable source of information on current developments in information communication technologies. This source includes ICT policies; a guide on ICT policy formulation, implementation, adoption, monitoring, evaluation and application; and background information for scholars and researchers interested in carrying out research on ICT policies.

The Series in Communication Technology and Society is an integrated series centering on the social aspects of communication technology. Written by outstanding communications specialists, it is designed to provide a much-needed interdisciplinary approach to the study of this rapidly changing field. The industrial nations of the world have become Information Societies. Advanced technologies have created a communication revolution, and the individual, through the advent of computers, has become an active participant in this process. The "human" aspect, therefore, is as important as technologically advanced media systems in understanding communication technology. The flagship book in the Series in Communication Technology and Society, Communication Technology introduces the history and uses of the new technologies and examines basic issues posed by interactive media in areas that affect intellectual, organization, and social life. Author and series co-editor Everett M. Rogers defines the field of communication technology with its major implications for researchers, students, and practitioners in an age of ever more advanced information exchange. CONTENTS The Changing Nature of Human Communication What Are the New Communication Technologies? History of Communication Science Adoption and Implementation of Communication Technologies Social Impacts of Communication Technologies New Theory New Research Methods Applications of the New Communication Technologies

Presenting an overview of the most important factors that determine whether the application of ICT in organizations will succeed or fail, this text pays attention to technical, organizational and economic perspectives as well as examining psychological and user perspectives.

This two-volume set CCIS 166 and 167 constitutes the refereed proceedings of the International Conference on Digital Information and Communication Technology and its Applications, DICTAP 2011, held in Dijon, France, in June 2010. The 128 revised full papers presented in both volumes were carefully reviewed and selected from 330 submissions. The papers are organized in topical sections on Web applications; image processing; visual interfaces and user experience; network security; ad hoc network; cloud computing; Data Compression; Software Engineering; Networking and Mobiles; Distributed and Parallel processing; social networks; ontology; algorithms; multimedia; e-learning; interactive environments and emergent technologies for e-learning; signal processing; information and data management.

communities." --Book Jacket.

This book highlights the most important research areas in Information and Telecommunication Technologies as well as Radio Electronics. The respective chapters share in-depth and extended results in these areas with a view to resolving practically relevant and challenging issues including: management services and quality control, improved estimates for reliability indicators, the cryptographic technology

Blockchain, research and forecasting of technological characteristics, satellite communications, multiservice transmission systems and effective technological solutions. These results can be used in the implementation of novel systems and to promote the exchange of information in e-societies. Given its scope the book offers a valuable resource for scientists, lecturers, specialists working at enterprises, graduate and undergraduate students who engage with problems in Information and Telecommunication Technologies as well as Radio Electronics.

This book constitutes the refereed proceedings of the 16th IFIP WG 9.4 International Conference on Social Implications of Computers in Developing Countries, ICT4D 2020, which was supposed to be held in Salford, UK, in June 2020, but was held virtually instead due to the COVID-19 pandemic. The 18 revised full papers presented were carefully reviewed and selected from 29 submissions. The papers present a wide range of perspectives and disciplines including (but not limited to) public administration, entrepreneurship, business administration, information technology for development, information management systems, organization studies, philosophy, and management. They are organized in the following topical sections: digital platforms and gig economy; education and health; inclusion and participation; and business innovation and data privacy.

How do cell phones change society? How do children use computers? How can we manage relationships via text messages? The internet, television, email and other new forms of information technology are changing at a rapid pace with potentially profound but also subtle influences on social life. This book offers a succinct introduction to both the experience and implications of these information and communication technologies (ICTs) in everyday life. Drawing on a wide variety of studies from different countries, the author considers the potential, or feared, social consequences of ICTs. Throughout, he analyzes what factors are shaping the debates surrounding information and communication technologies. The outcome is a cutting-edge book that offers a fresh approach to understanding ICTs and everyday life.

The development of new Information and Communication Technologies (ICTs) has transformed the world over the last two decades. These technologies are often seen as being inherently 'good', with the ability to make the world better, and in particular to reduce poverty. However, their darker side is frequently ignored in such accounts. ICTs undoubtedly have the potential to reduce poverty, for example by enhancing education, health delivery, rural development and entrepreneurship across Africa, Asia and Latin America. However, all too often, projects designed to do so fail to go to scale, and are unsustainable when donor funding ceases. Indeed, ICTs have actually dramatically increased inequality across the world. The central purpose of this book is to account for why this is so, and it does so primarily by laying bare the interests that have underlain the dramatic expansion of ICTs in recent years. Unless these are fully understood, it will not be possible to reclaim the use of these technologies to empower the world's poorest and most marginalised.

This edited book is comprised of original research that focuses on technological advancements for effective teaching with an emphasis on learning outcomes, ICT trends in higher education, sustainable developments and digital ecosystem in education, management and industries. The contents of the book are classified as; (i) Emerging ICT Trends in Education, Management and Innovations (ii) Digital Technologies for advancements in education, management and IT (iii) Emerging Technologies for Industries and Education, and (iv) ICT Technologies for Intelligent Applications. The book represents a useful tool for academics, researchers, industry professionals and policymakers to share and learn about the latest teaching and learning practices supported by ICT. It also covers innovative concepts applied in education, management and industries using ICT tools.

This volume examines the many aspects of the integration of ICT into the school of the future. It describes the experiences of different countries in developing models of schools of the future with ICT at the foundation. It provides insights into the essential conditions for developing future new learning environments supported by ICT. It includes perspectives from both developed and developing countries as they prepare for future educational systems of the Information Age.

For the fourth time now, experts in tourism from various countries come to attend the ENTER conference in order to inform themselves and others about the current developments in the usage of information and communication technologies. The ENTER conference is thought as a platform for the exchange of ideas, experiences, opinions, and visions among scientists and practitioners. The visions presented at the last three ENTER conferences have triggered many requirements of important on-going and planned projects in the application of communication and information technologies in tourism. The scope of the papers of this proceedings covers the most recent and relevant to topics in our area of interest. The sessions are primarily devoted to intelligent agents and systems, the future role of global (reservation) systems, the new chances of database applications due to the most recent technological developments, and above all the role of the Internet (and Intranet). I would like to express my cordial thanks to all institutions actively supporting this event, namely: • The Edinburgh & Lothian Tourist Board • The International Federation of Information Technology in Tourism (IFITT) Several people spent numerous hours organizing the scientific programme of ENTER. The names of most of them will appear in the following pages.

Informs today's business managers of important ICT strategy in changing business environments, techniques for effective ICT development, and ICT challenges for the future.

What shapes the role of Information and Communication Technologies in our everyday life? Despite the speed with which information and communication technologies such as the PC, mobile telephone and internet have found their way into society, there remains a good deal of debate surrounding their adoption and use. Through empirical studies covering a broad range of everyday life and work settings, this volume provides grounded insights into the social dynamics influencing how ICTs are both shaped and experienced. Specifically, the book examines the contributions of diverse disciplines to our understanding of these processes, the symbolic nature of technologies, the influence of design on the experience of ICTs, the role of users in influencing that design, the social constraints affecting the use of those technologies, and strategies for evaluating the social consequences of ICT innovations.

In recent decades, the world has witnessed, unprecedented in terms of speed and geographic coverage, diffusion of new information and communication technologies (ICT). The on-going digital revolution pervasively impacts and reshapes societies and economies and therefore deserves special attention and interest. This book provides extensive evidence on information and communication technologies development patterns and dynamics of this process across developed economies over the period 1980 to the present day. It adopts newly developed methodology to identification of the 'critical mass' and isolation of technological takeoff intervals, which are intimately related to the process of technology diffusion. The statistically robust analysis of country-specific data demonstrates the key economic, social and institutional prerequisites of ICT diffusion across examined countries, indicating what factors significantly foster or – reversely – hinder the process.

Information and Communication Technologies in Real-Life Learning presents the results of an International Federation for Information Processing (IFIP) working conference held December 2004 in Melbourne, Australia. The working conference was organized by IFIP Working Group 3.2 (Informatics and ICT in Higher Education) and IFIP Working Group 3.4 (Professional and Vocational Education in Information Technology). The papers in this book present a cross-section of issues in real-life learning in which Information and Communication Technology (ICT)

plays an important role. Some of the issues covered include: education models for real-life learning enabled by ICT; effective organization of a real-life learning environment; the changing role of the student; the changing role of educational institutions and their relationship with business and industry; the changing role of teachers and their use of ICT; and management of ICT-rich education change.

Educational initiatives attempt to introduce or promote a culture of quality within education by raising concerns related to student learning, providing services related to assessment, professional development of teachers, curriculum and pedagogy, and influencing educational policy, in the realm of technology. Adapting Information and Communication Technologies for Effective Education addresses ICT assessment in universities, student satisfaction in management information system programs, factors that impact the successful implementation of a laptop program, student learning and electronic portfolios, and strategic planning for e-learning. Providing innovative research on several fundamental technology-based initiatives, this book will make a valuable addition to every reference library.

This book presents state-of-the-art research into the application of information and communication technologies to travel and tourism. The range of topics covered is broad, encompassing digital marketing and social media, mobile computing and web design, semantic technologies and recommender systems, augmented and virtual reality, electronic distribution and online travel reviews, MOOC and eLearning, eGovernment, and the sharing economy. There is a particular focus on the development of digital strategies, the impact of big data, and the digital economy. In addition to the description of research advances and innovative ideas, readers will find a number of informative industrial case studies. The contents of the book are based on the 2017 ENTER eTourism conference, held in Rome. The volume will be of interest to all academics and practitioners who wish to keep abreast of the latest developments in eTourism.

This book combines 20 stories from a variety of organizations with a selection of nine theories, both mainstream and emerging. The stories introduce readers to individuals talking about how they communicate today via information and communication technologies (ICTs) in business or organizational contexts. The theories, presented in accessible language, illuminate the implicit patterns in these stories. This book demonstrates how and why these technologies are used under myriad circumstances.

Information and Communication Technology for Development (ICT4D)Routledge

Information and Telecommunication Technologies increasingly propel the tourism industry and have become one of the most important determinants of the competitiveness for both the public and the private sectors. It is quite evident that tourism organisations which fail to take advantage of the emergent opportunities introduced by technology will lose considerable market share and suffer strategic disadvantages. Business processes re-engineering is essential therefore throughout the tourism industry. Encouragingly tourism organisations respond to the challenges and a large number of principals use technology in both operational and strategic functions. However, technology threatens traditional distribution channels with disintermediation. Non-tourism organisations also take advantage of the technological developments and launch services for tourism consumers and suppliers, increasing the competition for traditional operators. The tourism industry, therefore, emerges as a very dynamic one and prospects are really exciting for professionals and researchers. Ultimately virtual enterprises will dominate the tourism industry. They will produce cost-effective, instantaneous, mass-customised goods and services; develop dynamic interfaces with suppliers and consumers; and constantly reform their structures in order to satisfy consumer needs. They will also take advantage of lean and flexible organisational frameworks; advanced technology; interactive and innovative marketing and management; rapid reaction to market requests; as well as effective networking and partnerships in order to provide more benefits for all stakeholders. ENTER adopted a consistent scientific approach to the study of tourism and technology. Over the last five years it brought together practitioners and researchers of both tourism and information technology.

ENTER has now met for six years, providing a valuable forum for researchers and practitioners to discuss and debate their ideas and perspectives regarding the nature and role of tourism and information technology in global society. Over the years, the nature and rate of change in the tourism industry has been overwhelming. The internet and related technologies are now dominant agents of change and have created a "new economy" which requires new processes and strategies to replace those developed for the "old economy". The theme of ENTER 2000, "Keeping Pace with Change - New Frontiers for IT and Tourism", captures the challenges that we face at the beginning of the new millennium. The papers included in this volume illustrate the incredible growth in research and development in this area and reflect its youth, vitality and at the same time, maturation. Perhaps most important, these papers document how this new technology has changed and, in turn, how the industry has responded. The series of proceedings of which this volume is a part is creating a unique body of knowledge about the intertwined emergence of tourism and technology. There are, perhaps, three overriding themes of this congress. First is the focus on the tourist. Professor Stock's keynote address "Intelligent Interfaces for the Tourist" is a good representative of a series of papers discussing how information systems, electronic markets, and user interfaces have been or can be developed to enhance the tourist experience.

This book discusses the use, economic importance and impact of Information and Communication Technologies (ICT) in public and private Sudanese universities. The author provides an in-depth analysis of the economic impact of ICT from the demand perspective as well as from the public-private perspective. This book also examines the status, pattern, structure, trend and determinants of the demand for ICT in public and private Sudanese universities. It investigates the economic impacts of the uses of ICT, the potential opportunities and challenges that ICT is expected to create for public and private Sudanese universities, and explains the role of ICT in facilitating the production, creation and transfer of knowledge in Sudanese universities.

A new framework for assessing the role of information and communication technologies in development that draws on Amartya Sen's capabilities approach. Information and communication technologies (ICTs)--especially the Internet and the mobile phone--have changed the lives of people all over the world. These changes affect not just the affluent populations of income-rich countries but also disadvantaged people in both global North and South, who may use free Internet access in telecenters and public libraries, chat in cybercafes with distant family members, and receive information by text message or email on their mobile phones. Drawing on Amartya Sen's capabilities approach to

development--which shifts the focus from economic growth to a more holistic, freedom-based idea of human development--Dorothea Kleine in *Technologies of Choice?* examines the relationship between ICTs, choice, and development. Kleine proposes a conceptual framework, the Choice Framework, that can be used to analyze the role of technologies in development processes. She applies the Choice Framework to a case study of microentrepreneurs in a rural community in Chile. Kleine combines ethnographic research at the local level with interviews with national policy makers, to contrast the high ambitions of Chile's pioneering ICT policies with the country's complex social and economic realities. She examines three key policies of Chile's groundbreaking Agenda Digital: public access, digital literacy, and an online procurement system. The policy lesson we can learn from Chile's experience, Kleine concludes, is the necessity of measuring ICT policies against a people-centered understanding of development that has individual and collective choice at its heart.

The production and consumption of Information and Communication Technologies (or ICTs) have become embedded within our societies. This handbook is about the many challenges presented by ICTs. It sets out an intellectual agenda that examines the implications of ICTs for individuals, organisations, democracy, and the economy. As the population ages and healthcare costs continue to soar, the focus of the nation and the healthcare industry turns to reducing costs and making the delivery process more efficient. Demonstrating how improvements in information systems can lead to improved patient care, *Information and Communication Technologies in Healthcare* explains how to cr

Written by a team of expert practitioners at the Independent Office of Evaluation of International Fund for Agricultural Development (IFAD), this book gives an insight into the implications of new and emerging technologies in development evaluation. Growing technologies such as big data analytics, machine learning and remote sensing present new opportunities for development practitioners and development evaluators, particularly when measuring indicators of the Sustainable Development Goals. The volume provides an overview of information and communication technologies (ICTs) in the context of evaluation, looking at the theory and practice, and discussing how the landscape may unfold. It also considers concerns about privacy, ethics and inclusion, which are crucial issues for development practitioners and evaluators working in the interests of vulnerable populations across the globe. Among the contributions are case studies of seven organizations using various technologies for data collection, analysis, dissemination and learning. This valuable insight into practice will be of interest to researchers, practitioners and policymakers in development economics, development policy and ICT.

This book presents 94 papers from the 2nd International Conference of Reliable Information and Communication Technology 2017 (IRICT 2017), held in Johor, Malaysia, on April 23–24, 2017. Focusing on the latest ICT innovations for data engineering, the book presents several hot research topics, including advances in big data analysis techniques and applications; mobile networks; applications and usability; reliable communication systems; advances in computer vision, artificial intelligence and soft computing; reliable health informatics and cloud computing environments, e-learning acceptance models, recent trends in knowledge management and software engineering; security issues in the cyber world; as well as society and information technology.

"This book examines the process of transformation as it relates to the tourism industry, and the changes to that industry from modern electronic communications. It covers not only geographically supportive technologies in communication, but also in terms of culture, economics, marketing, social, and regional issues"--Provided by publisher.

Knowledge is a fundamental driver of increased productivity and global competition. Information and communication technologies provide a foundation for building up and applying knowledge in private and public sectors. Countries with information infrastructures that are well developed and that use innovative information technology applications, have advantages for sustained economic growth and social development. Developing countries face opportunity costs when delaying greater access to and use of information infrastructures and technologies. As these information and communication technologies are the centre of World Bank Strategic Directions Framework priorities, increasing the climate for investment and sustainable growth at the same time as empowering and investing in poor people. Implementing a strategy to support information and communication technologies development in client countries is high on the World Bank Group agenda.

This book discusses key ethical and deontological problems concerning the use of the most common information and communication devices. It focuses on the challenges of the new environments we now find ourselves in thanks to these technologies, and the issues arising from the newly established relationship between the virtual sphere and the real world. Each aspect is analysed by starting from a very specific example or a case study presenting a dilemma that can only be resolved by making a reasoned ethical choice. Rather than thematically addressing only one of the many aspects mentioned above (for example, computer ethics or social network ethics), the book presents a comprehensive introduction to, and a co-ordinated overview of, the various deontological and ethical issues regarding the spread of the most common information and communication technologies.

This book provides an extensive, up-to-date overview of the ways in which information and communication technologies (ICTs) can be used to develop tourism and hospitality. The coverage encompasses a wide variety of topics within the field, including virtual reality, sharing economy and peer-to-peer accommodation, social media use, hotel technology, big data, robotics, and recommendation systems, to name but a few. The content is based on the 2019 ENTER eTourism conference, organized in Nicosia, Cyprus by the International Federation for Information Technologies and Travel & Tourism (IFITT) – the leading independent global community for the discussion, exchange, and development of knowledge on the use and impact of new ICTs in the travel and tourism industry. The book offers a global perspective and rich source of information on important innovations and novel ideas. Though it will prove especially valuable for academics working in the eTourism field, it will also be of considerable interest to practitioners and students.

This book presents the latest research into the application of information and communication technologies within the travel and tourism sectors. Readers will find insightful contributions on a

wide range of topics, including digital marketing, social media and online travel reviews, mobile computing, augmented and virtual reality, gamification, recommender systems, electronic distribution, online education and learning, and the sharing economy. Particular attention is devoted to the actual and potential impact of big data, and the development and implementation of digital strategies, including digital marketing and the digital economy. In addition to the description of research advances and innovative concepts, a number of informative case studies are presented. The contents of the book are based on the 2018 ENTER eTourism conference, held in Jönköping, Sweden. The volume will appeal to all academics and practitioners with an interest in the most recent developments in eTourism.

This open access book is the proceedings of the International Federation for IT and Travel & Tourism (IFITT)'s 28th Annual International eTourism Conference, which assembles the latest research presented at the ENTER21@yourplace virtual conference January 19-22, 2021. This book advances the current knowledge base of information and communication technologies and tourism in the areas of social media and sharing economy, technology including AI-driven technologies, research related to destination management and innovations, COVID-19 repercussions, and others. Readers will find a wealth of state-of-the-art insights, ideas, and case studies on how information and communication technologies can be applied in travel and tourism as we encounter new opportunities and challenges in an unpredictable world.

This book includes the best works presented at the scientific and practical conference that took place on February 1, 2018 in Pyatigorsk, Russia on the topic “Perspectives on the use of New Information and Communication Technology (ICT) in the Modern Economy”. The conference was organized by the Institute of Scientific Communications (Volgograd, Russia), the Center for Marketing Initiatives (Stavropol, Russia), and Pyatigorsk State University (Pyatigorsk, Russia). The book present the results of research on the complex new information and communication technologies in the modern economy and law as well as research that explore limits of and opportunities for their usage. The target audience of this book includes undergraduates and postgraduates, university lecturers, experts, and researchers studying various issues concerning the use of new information and communication technologies in modern economies. The book includes research on the following current topics in modern economic science: new challenges and opportunities for establishing information economies under the influence of scientific and technical advances, digital economy as a new vector of development of the modern global economy, economic and legal aspects of using new information and communication technologies in developed and developing countries, priorities of using the new information and communication technologies in modern economies, platforms of communication integration in tourism using new information and communication technologies, and economic and legal managerial aspects and peculiarities of scientific research on the information society.

This book highlights the most important research areas in Information and Communication Technologies as well as Radio Electronics, in particular contains publications on theory, applications, and design methods of Processing and Control in Information and Communication Systems. The respective chapters share in-depth and extended results in these areas with a view to resolving practically relevant and challenging issues including: 1. Infocommunications: IT, Cloud and Big Data technologies, E-society, Internet of Things and its implementation, Information and communication systems, security, etc.; 2. Telecommunications: Communication systems and networks, theoretical foundations of information processing and transmission in communication systems, SDN and SDR, etc.; 3. Radio Engineering: Theory of circuits, signals and processes in radio engineering and electronics, Circuit engineering, antennas, Microwave technology, Microwave and THz electronics, etc.; 4. Electronics: Electronic materials, Electronic devices, Nanoelectronics and Nanotechnology, etc. These results can be used in the implementation of novel systems and to promote the exchange of information in e-societies. Given its scope the book offers a valuable resource for scientists, lecturers, specialists working at enterprises, graduate and undergraduate students who engage with problems in Information and Communication Technologies as well as Radio Electronics

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