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NASA Space Technology Roadmaps and Priorities Jun 11 2022 NASA's Office of the Chief Technologist (OCT) has begun to rebuild the advanced space technology program in the agency with plans laid out in 14 draft technology roadmaps. It has been years since NASA has had a vigorous, broad-based program in advanced space technology development and its technology base has been largely depleted. However, success in executing future NASA space missions will depend on advanced technology developments that should already be underway. Reaching out to involve the external technical community, the National Research Council (NRC) considered the 14 draft technology roadmaps prepared by OCT and ranked the top technical challenges and highest priority technologies that NASA should emphasize in the next 5 years. This report provides specific guidance and recommendations on how the effectiveness of the technology development program managed by OCT can be enhanced in the face of scarce resources.

Environmental Science and Technology Oct 15 2022 Designed for both professional and student use, the new Second Edition includes recent improvements in the application of new technologies and materials on the environment. It also places greater emphasis on the three environmental media of air, water, and soil and discusses how technology can be used to mitigate contamination of all three.

Disruptive Technology: Concepts, Methodologies, Tools, and Applications Aug 13 2022 The proliferation of entrepreneurship, technological and business innovations, emerging social trends and lifestyles, employment patterns, and other developments in the global context involve creative destruction that transcends geographic and political boundaries and economic sectors and industries. This creates a need for an interdisciplinary exploration of disruptive technologies, their impacts, and their implications for various stakeholders widely ranging from government agencies to major corporations to consumer groups and individuals. Disruptive Technology: Concepts, Methodologies, Tools, and Applications is a vital reference source that examines innovation, imitation, and creative destruction as critical factors and agents of socio-economic growth and progress in the context of emerging challenges and opportunities for business development and strategic advantage. Highlighting a range of topics such as IT innovation, business strategy, and sustainability, this multi-volume book is ideally designed for entrepreneurs, business executives, business professionals, academicians, and researchers interested in strategic decision making using innovations and competitiveness.

Knowledge Management Systems Apr 09 2022 Knowledge Management Systems: Concepts, Technologies and Practices focuses upon the theory and practice of developing Knowledge Management Systems, explaining the fundamentals and exploring the standard procedures and technologies underlying the development of a KMS.

Breakthroughs in Software Science and Computational Intelligence May 18 2020 "This book charts the new ground broken by researchers exploring software science as it interacts with computational intelligence"--

Semantic Web: Concepts, Technologies and Applications Oct 03 2021 The Web is growing at an astounding pace surpassing the 8 billion page mark. However, most pages are still designed for human consumption and cannot be processed by machines. This book provides a well-paced

introduction to the Semantic Web. It covers a wide range of topics, from new trends (ontologies, rules) to existing technologies (Web Services and software agents) to more formal aspects (logic and inference). It includes: real-world (and complete) examples of the application of Semantic Web concepts; how the technology presented and discussed throughout the book can be extended to other application areas.

Department of Defense Appropriations for Fiscal Year 1973: Dept. of Defense, defense agencies, public witnesses Nov 11 2019

Big Data Jan 18 2023 Learn Big Data from the ground up with this complete and up-to-date resource from leaders in the field Big Data: Concepts, Technology, and Architecture delivers a comprehensive treatment of Big Data tools, terminology, and technology perfectly suited to a wide range of business professionals, academic researchers, and students. Beginning with a fulsome overview of what we mean when we say, “Big Data,” the book moves on to discuss every stage of the lifecycle of Big Data. You’ll learn about the creation of structured, unstructured, and semi-structured data, data storage solutions, traditional database solutions like SQL, data processing, data analytics, machine learning, and data mining. You’ll also discover how specific technologies like Apache Hadoop, SQOOP, and Flume work. Big Data also covers the central topic of big data visualization with Tableau, and you’ll learn how to create scatter plots, histograms, bar, line, and pie charts with that software. Accessibly organized, Big Data includes illuminating case studies throughout the material, showing you how the included concepts have been applied in real-world settings. Some of those concepts include: The common challenges facing big data technology and technologists, like data heterogeneity and incompleteness, data volume and velocity, storage limitations, and privacy concerns Relational and non-relational databases, like RDBMS, NoSQL, and NewSQL databases Virtualizing Big Data through encapsulation, partitioning, and isolating, as well as big data server virtualization Apache software, including Hadoop, Cassandra, Avro, Pig, Mahout, Oozie, and Hive The Big Data analytics lifecycle, including business case evaluation, data preparation, extraction, transformation, analysis, and visualization Perfect for data scientists, data engineers, and database managers, Big Data also belongs on the bookshelves of business intelligence analysts who are required to make decisions based on large volumes of information. Executives and managers who lead teams responsible for keeping or understanding large datasets will also benefit from this book.

Trends in Maritime Technology and Engineering Dec 13 2019 Trends in Maritime Technology and Engineering comprises the papers presented at the 6th International Conference on Maritime Technology and Engineering (MARTECH 2022) that was held in Lisbon, Portugal, from 24-26 May 2022. The Conference has evolved from the series of biennial national conferences in Portugal, which have become an international event, and which reflect the internationalization of the maritime sector and its activities. MARTECH 2022 is the sixth of this new series of biennial conferences. The book covers all aspects of maritime activity, including in Volume 1: Structures, Hydrodynamics, Machinery, Control and Design. In Volume 2: Maritime Transportation and Ports, Maritime Traffic, Safety, Environmental Conditions, Renewable Energy, Oil & Gas, and Fisheries and Aquaculture. Trends in Maritime Technology and Engineering aims at academics and professionals in the above mentioned fields.

Emerging Technologies and Information Systems for the Knowledge Society Feb 07 2022 It is a great pleasure to share with you the Springer LNCS proceedings of the First World Summit on the Knowledge Society - WSKS 2008 that was organized by the Open Research Society, NGO, <http://www.open-knowledge-society.org>, and took place in the American College of Greece, <http://www.acg.gr>, during September 24–27, 2008, in Athens, Greece. The World Summit on the Knowledge Society Series is an international attempt to promote a dialogue on the main aspects of a knowledge society toward a better world for all based on knowledge and learning. The WSKS Series brings together academics, people from industry, policy makers, politicians, government officers and active citizens to look at the impact of information technology, and the knowledge-based era it is creating, on key facets of today’s world: the state, business, society and culture. Six general pillars provide the constitutional elements of the WSKS

series: • Social and Humanistic Computing for the Knowledge Society—Emerging Technologies and Systems for the Society and Humanity • Knowledge, Learning, Education, Learning Technologies and E-learning for the Knowledge Society • Information Technologies—Knowledge Management Systems—E-business and Enterprise Information Systems for the Knowledge Society • Culture and Cultural Heritage—Technology for Culture Management—Management of Tourism and Entertainment—Tourism Networks in the Knowledge Society • Government and Democracy for the Knowledge Society • Research and Sustainable Development in the Knowledge Society The summit provides a distinct, unique forum for cross-disciplinary fertilization of research, favoring the dissemination of research that is relevant to international re-

Inventory of Advanced Energy Technologies and Energy Conservation Research and Development, 1976-1978 Jul 20 2020

Multimedia Technologies: Concepts, Methodologies, Tools, and Applications Jul 12 2022 "This book offers an in-depth explanation of multimedia technologies within their many specific application areas as well as presenting developing trends for the future"--Provided by publisher.

Particle Physics: Concepts, Technology and Applications May 30 2021 The branch of physics which focuses on the study of the nature of particles which comprise radiation and matter is known as particle physics. It also studies the fundamental interactions which are necessary to explain the behavior of the irreducibly small particles. Some of the subatomic particles studied within this field are protons, electrons, neutrons, quarks and leptons. The classification of these particles is done using the theory of the Standard Model of particle physics. There are numerous other theories which are also studied within this field like quantum field theory, effective field theory and lattice field theory. Particle physics is applied in varied sectors such as medicine, computing and national security. This book includes some of the vital pieces of work being conducted across the world, on various topics related to particle physics. It is an upcoming field of science that has undergone rapid development over the past few decades. This book will help the readers in keeping pace with the rapid changes in this field.

Cooperative Office Systems Sep 21 2020 A technical survey of techniques for advanced office applications, including networking, distributed systems, database technology and multimedia. This book incorporates a survey of current techniques for computer-supported cooperative work and a description of present as well as future office document models and document management techniques.

The Contribution of Technology to Added Value Oct 11 2019 There is a wide consensus that introduction of technology to the production process contributes to an overall economic value, however, confusion between technology, knowledge and capital often makes value calculations ambiguous and non-objective. The Contribution of Technology to Added Value addresses not only this issue of definition but also provides a production model to assess the value contribution of technology within the production process. A clarification of fundamental semantics provides a significant taxonomy for technology dependence, and allows understanding and modeling of how knowledge, technology and capital individually contribute to production and to value adding. A new technology dependence taxonomy is proposed and assessed following chapters explaining growth models, the KTC model and technology index values. Balancing theoretical knowledge with real-world data and applications The Contribution of Technology to Added Value clarifies the issue of value adding for a range of different viewpoints and purposes; from academic to industry and service across engineering, economics and management.

Understanding Infrastructure Edge Computing Dec 17 2022 UNDERSTANDING INFRASTRUCTURE EDGE COMPUTING A comprehensive review of the key emerging technologies that will directly impact areas of computer technology over the next five years Infrastructure edge computing is the model of data center and network infrastructure deployment which distributes a large number of physically small data centers around an area to deliver better performance and to enable new economical applications. It is vital for those operating at business or technical levels to be positioned to

capitalize on the changes that will occur as a result of infrastructure edge computing. This book provides a thorough understanding of the growth of internet infrastructure from its inception to the emergence of infrastructure edge computing. Author Alex Marcham, an acknowledged leader in the field who coined the term 'infrastructure edge computing,' presents an accessible, accurate, and expansive view of the next generation of internet infrastructure. The book features illustrative examples of 5G mobile cellular networks, city-scale AI systems, self-driving cars, drones, industrial robots, and more—technologies that increase efficiency, save time and money, and improve safety. Covering state-of-the-art topics, this timely and authoritative book: Presents a clear and accurate survey of the key emerging technologies that will impact data centers, 5G networks, artificial intelligence and cyber-physical systems, and other areas of computer technology Explores how and why Internet infrastructure has evolved to where it stands today and where it needs to be in the near future Covers a wide range of topics including distributed application workload operation, infrastructure and application security, and related technologies such as multi-access edge computing (MEC) and fog computing Provides numerous use cases and examples of real-world applications which depend upon underlying edge infrastructure Written for Information Technology practitioners, computer technology practitioners, and students, Understanding Infrastructure Edge Computing is essential reading for those looking to benefit from the coming changes in computer technology.

StarBriefs Plus Apr 16 2020 With about 200,000 entries, StarBriefs Plus represents the most comprehensive and accurately validated collection of abbreviations, acronyms, contractions and symbols within astronomy, related space sciences and other related fields. As such, this invaluable reference source (and its companion volume, StarGuides Plus) should be on the reference shelf of every library, organization or individual with any interest in these areas. Besides astronomy and associated space sciences, related fields such as aeronautics, aeronomy, astronautics, atmospheric sciences, chemistry, communications, computer sciences, data processing, education, electronics, engineering, energetics, environment, geodesy, geophysics, information handling, management, mathematics, meteorology, optics, physics, remote sensing, and so on, are also covered when justified. Terms in common use and/or of general interest have also been included where appropriate.

Basic Concepts of Information Technology (IT) Mar 28 2021 The European Computer Driving Licence is a European qualification that enables individuals to demonstrate their competency in computer skills. This text covers the basics of operating a computer and some security issues.

Big Data: Concepts, Technology and Architecture Feb 19 2023 Big data is a field that deals with the ways to analyze, systematically extract information from, or otherwise deal with data sets that are too large or complex to be dealt with using traditional data-processing application software. Data with many columns offer greater statistical power, while data with higher complexity may lead to a higher false discovery rate. Challenges associated with big data analysis comprise capturing data, data storage, data analysis, sharing, transfer, visualization, querying, updating, information privacy, and data source. It is associated with three key concepts of volume, variety, and velocity. It has applications for government, international development, healthcare, education, insurance, media, the internet of things, and IT. This book outlines the principles and applications of big data in detail. It discusses the fundamentals as well as modern approaches of this field. As big data is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of the subject.

Key Concepts in Science and Technology Studies Mar 08 2022 Key Concepts in Science and Technology Studies is an introduction to the interdisciplinary field of science and technology studies through concepts that are also used in other areas, from design to organization studies...

Handbook of Research on Grid Technologies and Utility Computing Nov 04 2021 "This book provides a compendium of terms, definitions, and explanations of concepts, issues, and trends in grid technology"--Provided by publisher.

Concepts and Issues Dec 05 2021

Students' Concepts of Technology and Technology Education Nov 16 2022

Smart Universities May 10 2022 This book presents peer-reviewed contributions on smart universities by various international research, design and development teams. Smart university is an emerging and rapidly evolving area that creatively integrates innovative concepts; smart software and hardware systems; smart classrooms with state-of-the-art technologies and technical platforms; smart pedagogy based on modern teaching and learning strategies; smart learning and academic analytics; as well as various branches of computer science and computer engineering. The contributions are grouped into several parts: Part 1—Smart Universities: Literature Review and Creative Analysis, Part 2—Smart Universities: Concepts, Systems and Technologies, Part 3—Smart Education: Approaches and Best Practices, and Part 4—Smart Universities: Smart Long Life Learning. The book is a valuable source of research data and findings, design and development outcomes, and best practices for faculty, scholars, Ph.D students, administrators, practitioners and anyone interested in the rapidly growing areas of smart university and smart education.

Global Business: Concepts, Methodologies, Tools and Applications Nov 23 2020 "This multi-volume reference examines critical issues and emerging trends in global business, with topics ranging from managing new information technology in global business operations to ethics and communication strategies"--Provided by publisher.

Biometric Technology Mar 16 2020 Most biometric books are either extraordinarily technical for technophiles or extremely elementary for the lay person. Striking a balance between the two, *Biometric Technology: Authentication, Biocryptography, and Cloud-Based Architecture* is ideal for business, IT, or security managers that are faced with the task of making purchasing, migration, or adoption decisions. It brings biometrics down to an understandable level, so that you can immediately begin to implement the concepts discussed. Exploring the technological and social implications of widespread biometric use, the book considers the science and technology behind biometrics as well as how it can be made more affordable for small and medium-sized business. It also presents the results of recent research on how the principles of cryptography can make biometrics more secure. Covering biometric technologies in the cloud, including security and privacy concerns, the book includes a chapter that serves as a "how-to manual" on procuring and deploying any type of biometric system. It also includes specific examples and case studies of actual biometric deployments of localized and national implementations in the U.S. and other countries. The book provides readers with a technical background on the various biometric technologies and how they work. Examining optimal application in various settings and their respective strengths and weaknesses, it considers ease of use, false positives and negatives, and privacy and security issues. It also covers emerging applications such as biocryptography. Although the text can be understood by just about anybody, it is an ideal resource for corporate-level executives who are considering implementing biometric technologies in their organizations.

Technology and Work in German Industry Jan 26 2021 German industry in particular is a central focus for studying technical and organizational changes in industry due to its pivotal position in international markets, its technological sophistication and its well-established training systems. Originally published in 1992, this study brings together contributions which contain both theoretical approaches and extensive empirical studies, on the manufacturing industry in Germany, including comparisons to other European countries. It looks at the developments of new technology, identifying trends in rationalization and the influences they have on organizational behaviour. As it discusses the relationships between technology and the workforce it includes discussion on flexible specialization, labour processes, union relations, small and large firms and training processes.

New Technology and Regional Development Apr 28 2021 First Published in 2004. Routledge is an imprint of Taylor & Francis, an informa

company.

Technology and Place Jun 30 2021 Developing "sustainable" architectural and agricultural technologies was the intent behind Blueprint Farm, an experimental agricultural project designed to benefit farm workers displaced by the industrialization of agriculture in the Rio Grande Valley of Texas. Yet, despite its promise, the very institutions that created Blueprint Farm terminated the project after just four years (1987-1991). In this book, Steven Moore demonstrates how the various stakeholders' competing definitions of "sustainability," "technology," and "place" ultimately doomed Blueprint Farm. He reconstructs the conflicting interests and goals of the founders, including Jim Hightower and the Texas Department of Agriculture, Laredo Junior College, and the Center for Maximum Potential Building Systems, and shows how, ironically, they unwittingly suppressed the self-determination of the very farm workers the project sought to benefit. From the instructive failure of Blueprint Farm, Moore extracts eight principles for a regenerative architecture, which he calls his "nonmodern manifesto."

Compound Semiconductors Sep 14 2022 This book provides an overview of compound semiconductor materials and their technology. After presenting a theoretical background, it describes the relevant material preparation technologies for bulk and thin-layer epitaxial growth. It then briefly discusses the electrical, optical, and structural properties of semiconductors, complemented by a description of the most popular characterization tools, before more complex hetero- and low-dimensional structures are discussed. A special chapter is devoted to GaN and related materials, owing to their huge importance in modern optoelectronic and electronic devices, on the one hand, and their particular properties compared to other compound semiconductors, on the other. In the last part of the book, the physics and functionality of optoelectronic and electronic device structures (LEDs, laser diodes, solar cells, field-effect and heterojunction bipolar transistors) are discussed on the basis of the specific properties of compound semiconductors presented in the preceding chapters of the book. Compound semiconductors form the back-bone of all opto-electronic and electronic devices besides the classical Si electronics. Currently the most important field is solid state lighting with highly efficient LEDs emitting visible light. Also laser diodes of all wavelength ranges between mid-infrared and near ultraviolet have been the enabler for a huge number of unprecedented applications like CDs and DVDs for entertainment and data storage, not to speak about the internet, which would be impossible without optical data communications with infrared laser diodes as key elements. This book provides a concise overview over this class of materials, including the most important technological aspects for their fabrication and characterisation, also covering the most relevant devices based on compound semiconductors. It presents therefore an excellent introduction into this subject not only for students, but also for engineers and scientist who intend to put their focus on this field of science.

Modern Software Engineering Concepts and Practices: Advanced Approaches Feb 24 2021 Software engineering has advanced rapidly in recent years in parallel with the complexity and scale of software systems. New requirements in software systems yield innovative approaches that are developed either through introducing new paradigms or extending the capabilities of well-established approaches. Modern Software Engineering Concepts and Practices: Advanced Approaches provides emerging theoretical approaches and their practices. This book includes case studies and real-world practices and presents a range of advanced approaches to reflect various perspectives in the discipline.

Service Intelligence and Service Science: Evolutionary Technologies and Challenges Jun 18 2020 "This book presents the emerging fields of service intelligence and service science, positioning them as the most promising directions for the evolution of service computing, demonstrating the critical role such areas play in supporting service computing processes"--Provided by publisher.

Mobile Computing: Concepts, Methodologies, Tools, and Applications Oct 23 2020 "This multiple-volume publication advances the emergent field of mobile computing offering research on approaches, observations and models pertaining to mobile devices and wireless communications from over

400 leading researchers"--Provided by publisher.

Proceedings of the Technology and the Mine Problem Symposium Aug 01 2021

Dept. of Defense, defense agencies, public witnesses Jan 14 2020

Theory Of Technology Aug 21 2020 The history of technology is often troubled by good ideas that do not, for one reason or another, take off right away--sometimes for millennia. Sometimes, technology comes to a standstill, and sometimes, it even reverses itself. Thus, unlike science, which seems to proceed at a reasonable and calm rate, the progress of technology is difficult to theorize about. While in science many developments are predictable to a certain extent and this predictability may, at times, direct or stymie science's progress--as with stem-cell research and cloning--technological advances, such as the Internet, are often sudden and unpredictable, and therefore frightening. In "Theory of Technology," David Clarke brings together nine authors who try to understand technology from a variety of viewpoints. Rias van Wyk, in "Technology," parses the concept into many angles, including its anatomy, taxonomy, and evolution. Karol Pelc, in "Knowledge Mapping," discusses tracking the evolution of the emerging discipline of technology management. Jon Beard, in "Management of Technology," pursues a similar mapping endeavor, but looks to the patterns of the "literature" of technology management. Thomas Clarke, in "Unique Features of an R&D Work Environment and Research Scientists and Engineers," takes the reader on a tour of how people of technology present unique challenges to not just management but whole organizations. Richard Howey, in "Understanding Software Technology," places enterprise software into a meaningful pattern of technology management. Fred Foldvary and Daniel Klein, in "The Half-Life of Policy Rationales," discuss how new technology affects old policy issues. John Cogan, in "Some Philosophical Thoughts on the Nature of Technology," maintains that our Aristotelian search for the essence of technology is doomed. And Peter Bond, in "The Biology of Technology," establishes a basis for the development of a socio-biological approach to understanding the phenomena of technological society and technical change. ""Theory of Technology" is an important book. It recognizes the near impossibility of forecasting technological progress, or of planning the trajectory that a new technology may take. It goes beyond other studies in showing how understanding of the nature of technology itself is the necessary first step in removing levels of uncertainty from charting those trajectories as they impact our daily lives."-Paul Ceruzzi, curator, Aerospace Electronics and Computing, National Air and Space Museum, Smithsonian Institution "Unstuffy. ["Theory of Technology" is] a sheltered workshop for the atheoretical in technology studies." -Russell Maulitz, Department of Family, Community and Preventive Medicine, Drexel University College of Medicine "Technology is one of those words whose meaning and importance we intuitively know, but have trouble defining and fully understanding. Technology is becoming ever more ubiquitous in our lives and economies, and harnessing it in predictable ways ever more important. "Theory of Technology" goes a long way toward building a framework of analysis and perspective to overcome these limitations, and thus toward helping us bring order to our thinking and our ability to employ in orderly ways one of the keys to contemporary life." -Thomas J. Duesterberg, President and CEO, Manufacturers ""Theory of Technology" is an excellent and challenging introduction to the field-also for the uninitiated. It offers a history of the discipline, of its attempts to better understand the nature of technology from, among others, philosophical and biological perspectives, and discusses the management of technology and its policy consequences. In also analyzing the semantics of technology theory and practice-a brave enterprise in these days of fads and fashions in wordings and phrases-it not only seeks the (self-)discipline that is needed to support the scientific status of the field but may indeed help increase actual influence on technology practice and policy." -Marie-Louise Bemelmans-Videc, professor of public administration, Radboud University Nijmegen, The Netherlands "David Clarke's new book about the "Theory of Technology" is the most comprehensive, multifaceted, and challenging treatment of the subject to date. It also makes a very interesting read. Instead of looking at technology

from the perspective of just one author, Mr. Clarke has chosen to ask some of the most respected and provocative experts in the field to look at technology from a variety of major angles that nicely and completely encircle and illuminate the subject. I don't think there is an aspect of modern technology that isn't covered in an entertaining and informative fashion. My profession as a patent attorney puts me in direct, daily contact with the practical aspects of all new technologies. Mr. Clarke's well organized and enjoyable book has helped me appreciate the bigger context of my work. It will stay on the bookshelf in my office in the company of just a handful of other books that give me a better understanding about the world in which we live." -R. C. Woodbridge, Princeton, NJ "Technology is one of those words whose meaning and importance we intuitively know, but have trouble defining and fully understanding. Technology is becoming ever more ubiquitous in our lives and economies, and harnessing it in predictable ways ever more important. "Theory of Technology" goes a long way toward building a framework of analysis and perspective to overcome these limitations, and thus toward helping us bring order to our thinking and our ability to employ in orderly ways one of the keys to contemporary life." -Thomas J. Duesterberg, President and CEO, Manufacturers Alliance/MAPI David Clarke, professor emeritus at Southern Illinois University, has degrees in philosophy, architecture, management science, and urban design. His is the editor of "Technology and Terrorism," published by Transaction, as well as the editor of the Transaction journal "Knowledge, Technology, & Policy."

Department of Defense Appropriations for Fiscal Year 1973 Feb 13 2020

Applications and Theory of Petri Nets 2003 Jan 06 2022 The refereed proceedings of the 24th International Conference on Applications and Theory of Petri Nets, ICATPN 2003, held in Eindhoven, The Netherlands, in June 2003. The 25 revised full papers presented together with 6 invited contributions were carefully reviewed and selected from 77 submissions. All current issues on research and development in the area of Petri nets are addressed, in particular concurrent systems design and analysis, model checking, networking, business process modeling, formal methods in software engineering, agent systems, systems specification, systems validation, discrete event systems, protocols, and prototyping.

Information and Communication Technology and Small and Medium Sized Enterprises Dec 25 2020 The arrival of Information and Communication Technology may play a role in restoring competitiveness, since these technologies are also a factor in relaxing the constraints specific to SMEs. ICT makes a number of services possible in a large range of processes and transactions within and between companies. Internally, ICT applications can improve knowledge and information management practices; they can also allow more rapid and more reliable transactions between businesses (B2B) and between businesses and consumers (B2C). They are equally quite effective in improving external business communications and service quality for both new and existing clients. They also appear to be a source of competitive advantage for SMEs under certain conditions. Few studies have focused on the ways that SMEs can use ICT to improve and defend their competitive positions. This book provides a synthesis of the advantages of ICT for SMEs. Seven chapters illustrate the technologies used in such companies. Each of these chapters provides a theoretical and/or practical view of the way that SMEs can use ICT. This book is an indispensable reference for both academics and for practitioners.

Mobile Multimedia Communications: Concepts, Applications, and Challenges Sep 02 2021 With rapid growth of the Internet, the applications of multimedia are burgeoning in every aspect of human life including communication networks and wireless and mobile communications. *Mobile Multimedia Communications: Concepts, Applications and Challenges* captures defining research on all aspects and implications of the accelerated progress of mobile multimedia technologies. Covered topics include fundamental network infrastructures, modern communication features such as wireless and mobile multimedia protocols, personal communication systems, mobility and resource management, and security and privacy issues. A complete reference to topics driving current and potential future development of mobile technologies, this essential addition to library collections will

meet the needs of researchers in a variety of related fields.

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