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Convergence in Information and Communication Technology

"In today's networked societies, a key factor of the social and economic success is the capability to exchange, transfer, and share knowledge. This book provides research on the topic providing a foundation of an emerging and multidisciplinary field"--Provided by publisher.

Management of Convergence in Innovation

Innovation in information and communication technology (ICT) fuels the growth of the global economy. How ICT markets evolve depends on politics and policy, and since the 1950s periodic overhauls of ICT policy have transformed competition and innovation. For example, in the 1980s and the 1990s a revolution in communication policy (the introduction of sweeping competition) also transformed the information market. Today, the diffusion of Internet, wireless, and broadband technology, growing modularity in the design of technologies, distributed computing infrastructures, and rapidly changing business models signal another shift. This pathbreaking examination of ICT from a political economy perspective argues that continued rapid innovation and economic growth require new approaches in global governance that will reconcile diverse interests and enable competition to flourish. The authors (two of whom were architects of international ICT policy reforms in the 1990s) discuss this crucial turning point in both

theoretical and practical terms.

Convergence

Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data

Electronic Constitution: Social, Cultural, and Political Implications

Access to broadband connectivity is a country's passport to the global information society and knowledge economy the future. However, the adoption and use of broadband technology today remains extremely uneven and threatens to create a new digital divide. At the end of 2009, countries in North America and the European Union accounted for more than 50 percent of the world's 1 billion fixed and mobile broadband subscriptions, but South Asia and Sub-Saharan Africa together accounted for less than 3 percent. The experience with mobile telephony though shows the potential for growth in the information and communication technology sector in developing countries. Almost 75 percent of the world's mobile telephone subscriptions are in low- and middle-income countries, which have also promoted exciting innovations and realized significant economic development benefits. In fact, a growing number of countries are seeking to spur broadband development. To aid governments as they design their own programs, this volume offers examples and ideas from some of the most successful broadband markets: particularly the Republic of Korea, but also Finland, France, Japan, Sweden, the United Kingdom, and the United States. 'Building Broadband' does not suggest a universal solution but rather provides a long list of policies and programs organized within a strategic framework that allows solutions tailored to country circumstances. The essential building blocks identified are useful everywhere because they focus on improving incentives and the climate for private

investment. This is a policy that even countries with very limited resources will be able to exploit.

The Singularity Is Near

The book aims to provide a broad overview of various topics of the Internet of Things (IoT) from the research and development priorities to enabling technologies, architecture, security, privacy, interoperability and industrial applications. It is intended to be a stand-alone book in a series that covers the Internet of Things activities of the IERC - Internet of Things European Research Cluster - from technology to international cooperation and the global "state of play." The book builds on the ideas put forward by the European Research Cluster on the Internet of Things Strategic Research and Innovation Agenda and presents views and state of the art results on the challenges facing the research, development and deployment of IoT at the global level. Today we see the integration of Industrial, Business and Consumer Internet which is bringing together the Internet of People, Internet of Things, Internet of Energy, Internet of Vehicles, Internet of Media, Services and Enterprises in forming the backbone of the digital economy, the digital society and the foundation for the future knowledge and innovation based economy. These developments are supporting solutions for the emerging challenges of public health, aging population, environmental protection and climate change, the conservation of energy and scarce materials, enhancements to safety and security and the continuation and growth of economic prosperity. Penetration of smartphones and advances in nanoelectronics, cyber-physical systems, wireless communication, software, and Cloud computing technology will be the main drivers for IoT development. The IoT contribution is seen in the increased value of information created by the number of interconnections among things and the transformation of the processed information into knowledge shared into the Internet of Everything. The connected devices are part of ecosystems connecting people, processes, data, and things which are communicating in the Cloud using the increased storage and computing power while attempting to standardize communication and metadata. In this context, the next generation of Cloud computing technologies will need to be flexible enough to scale autonomously, adaptive enough to handle constantly changing connections and resilient enough to stand up to the huge flows of data that will occur. In 2025, analysts forecast that there will be six devices per human on the planet, which means around 50 billion more connected devices over the next 12 years. The Internet of Things market is connected to this anticipated device growth from industrial Machine to Machine (M2M) systems, smart meters and wireless sensors. Internet of Things technology will generate new services and new interfaces by creating smart environments and smart spaces with applications ranging from Smart Cities, Smart Transport, Buildings, Energy, Grid, to Smart Health and Life.

Profile's Stock Exchange Handbook

Information and Communication Technologies, Society and Human Beings: Theory and Framework addresses the extensive area of effects of ICT on human beings and the interaction between ICT, individuals, organizations, and society. This premier reference source features contributions from over 45 distinguished

researchers from around the world, each presenting high quality research on Social Informatics, Human Computer Interaction, Organizational Behavior, and Macro-ergonomics. This unique publication is perfect for students, teachers, researchers, engineers, practitioners, managers, policy-makers, and media alike.

Internet of Things

This book is dedicated to intelligent systems of broad-spectrum application, such as personal and social biosafety or use of intelligent sensory micro-nanosystems such as "e-nose", "e-tongue" and "e-eye". In addition to that, effective acquiring information, knowledge management and improved knowledge transfer in any media, as well as modeling its information content using meta-and hyper heuristics and semantic reasoning all benefit from the systems covered in this book. Intelligent systems can also be applied in education and generating the intelligent distributed eLearning architecture, as well as in a large number of technical fields, such as industrial design, manufacturing and utilization, e.g., in precision agriculture, cartography, electric power distribution systems, intelligent building management systems, drilling operations etc. Furthermore, decision making using fuzzy logic models, computational recognition of comprehension uncertainty and the joint synthesis of goals and means of intelligent behavior biosystems, as well as diagnostic and human support in the healthcare environment have also been made easier.

Data Mining: Concepts and Techniques

Transforming Global Information and Communication Markets

Challenges of Information Technology Education in the 21st Century

Challenges of Information Technology Education in the 21st Century strives to address a variety of pertinent questions surrounding the rapidly changing area of IT education, such as: What topics are important for the 21st Century? How does the Internet change the task of teaching? What is the role of the professor in a world of online learning? This exciting book will be an invaluable resource for educators in the field of information technology.

ICT - Energy Concepts for Energy Efficiency and Sustainability

The increase in connected devices in the internet of things (IoT) is leading to an exponential increase in the data that an organization is required to manage. To successfully utilize IoT in businesses, big data analytics are necessary in order to efficiently sort through the increased data. The combination of big data and IoT can thus enable new monitoring services and powerful processing of sensory data streams. The Handbook of Research on Big Data and the IoT is a pivotal reference source that provides vital research on emerging trends and recent innovative applications of big data and IoT, challenges facing organizations and the

implications of these technologies on society, and best practices for their implementation. While highlighting topics such as bootstrapping, data fusion, and graph mining, this publication is ideally designed for IT specialists, managers, policymakers, analysts, software engineers, academicians, and researchers.

ICT Adoption and Application in the Malaysian Public Sector

“Startling in scope and bravado.” —Janet Maslin, *The New York Times* “Artfully envisions a breathtakingly better world.” —*Los Angeles Times* “Elaborate, smart and persuasive.” —*The Boston Globe* “A pleasure to read.” —*The Wall Street Journal* One of CBS News’s Best Fall Books of 2005 • Among *St Louis Post-Dispatch*’s Best Nonfiction Books of 2005 • One of Amazon.com’s Best Science Books of 2005 A radical and optimistic view of the future course of human development from the bestselling author of *How to Create a Mind* and *The Age of Spiritual Machines* who Bill Gates calls “the best person I know at predicting the future of artificial intelligence” For over three decades, Ray Kurzweil has been one of the most respected and provocative advocates of the role of technology in our future. In his classic *The Age of Spiritual Machines*, he argued that computers would soon rival the full range of human intelligence at its best. Now he examines the next step in this inexorable evolutionary process: the union of human and machine, in which the knowledge and skills embedded in our brains will be combined with the vastly greater capacity, speed, and knowledge-sharing ability of our creations. From the Trade Paperback edition.

Transforming Education

Achieving Effective Integrated E-Care Beyond the Silos

Recent global and national debates have shown that demographic change, the rising incidence of chronic disease, and the unmet need for more personalized care are trends demanding a new, integrated approach to health and social care. The advancement and adoption of technology in both health and social care settings is a valuable tool for encouraging change and improving the quality and efficiency of care provided to patients and care clients. *Achieving Effective Integrated E-Care Beyond the Silos* presents a collection of real-life examples, frameworks, business models, financial implications, and methods of evaluating the technological tools that are enabling a more human-centered approach to health and social care. Based on relevant research in the field of integrated e-care, this publication is ideally designed for use by practitioners, researchers, and decision-makers in the care field.

SIAM Journal on Scientific Computing

Media Convergence Handbook - Vol. 2

"There is today a pronounced and accelerated convergence in architecture. This convergence is occurring by doers not thinkers; in practice not academia; in

building design, fabrication, and construction. It is about solution-centric individuals engaged in real time problem solving, not in abstractions. The nature of this convergence, where things are converging and what that means for architecture, is the subject of this book." —from the Introduction Those working in architecture and engineering feel pressure to work faster, at lower cost, while maintaining a high level of innovation and quality. At the same time, emergent tools and processes make this possible. Convergence is about the firms, teams and people who thrive in this environment as a result of their ability to creatively combine and innovate. It seeks to answer several timely questions: What are the tools and work processes that are converging? How are individuals and organizations converging their tools and work processes? What challenges and benefits are they seeing? What is the ultimate endgame of this convergence? What skillsets and mindsets would someone need to develop to work effectively in this changing environment? What are the implications of convergence on the role of the designer, and on design? On how we design, build, fabricate, and construct? On how we work? The book explains how convergence relates to, but ultimately differs from integration, consolidation, multi-tasking, automation, and other forms of optimization. The practice-based research builds upon the author's research in BIM and in the collaborative leveraging of data in design and fabrication. As an investigation and meditation on the impact of technology on the education and making of design professionals Convergence explains what is happening in the world of design, and discusses the implications for the future of education, training and practice.

Global Media and Communication Policy

Smart Cities and Artificial Intelligence offers a comprehensive view of how cities are evolving as smart ecosystems through the convergence of technologies incorporating machine learning and neural network capabilities, geospatial intelligence, data analytics and visualization, sensors, and smart connected objects. These recent advances in AI move us closer to developing urban operating systems that simulate human, machine, and environmental patterns from transportation infrastructure to communication networks. Exploring cities as real-time, living, dynamic systems, and providing tools and formats including generative design and living lab models that support cities to become self-regulating, this book provides readers with a conceptual and practical knowledge base to grasp and apply the key principles required in the planning, design, and operations of smart cities. Smart Cities and Artificial Intelligence brings a multidisciplinary, integrated approach, examining how the digital and physical worlds are converging, and how a new combination of human and machine intelligence is transforming the experience of the urban environment. It presents a fresh holistic understanding of smart cities through an interconnected stream of theory, planning and design methodologies, system architecture, and the application of smart city functions, with the ultimate purpose of making cities more liveable, sustainable, and self-sufficient. Explores concepts in smart city design and development and the transformation of cities through the convergence of human, machine, and natural systems enabled by Artificial Intelligence (AI) Includes numerous diagrams to illustrate and explain complex smart city systems and solutions Features diverse smart city examples and initiatives from around the globe

Creating Business Agility

To advance education about ICT standardization, comprehensive and up-to-date teaching materials must be available. With the support of the European Commission, ETSI has developed this textbook to facilitate education on ICT standardization, and to raise the knowledge level of ICT standardization-related topics among lecturers and students in higher education, in particular in the fields of engineering, business administration and law. Readers of this book are not required to have any previous knowledge about standardization. They are introduced firstly to the key concepts of standards and standardization, different elements of the ecosystem and how they interact, as well as the procedures required for the production of standardization documents. Then, readers are taken to the next level by addressing aspects related to standardization such as innovation, strategy, business, and economics. This textbook is an attempt to make ICT standardization accessible and understandable to students. It covers the essentials that are required to get a good overview of the field. The book is organized in chapters that are self-contained, although it would be advantageous to read the book from cover to cover. Each chapter begins with a list of learning objectives and key messages. The text is enriched with examples and case studies from real standardization practice to illustrate the key theoretical concepts. Each chapter also includes a quiz to be used as a self-assessment learning activity. Furthermore, each book chapter includes a glossary and lists of abbreviations and references. Alongside the textbook, we have produced a set of slides that are intended to serve as complementary teaching materials in face-to-face teaching sessions. For all interested parties there is also an electronic version of the textbook as well as the accompanying slides that can be downloaded for free from the ETSI website (www.etsi.org/standardization-education).

Science & Technology in Japan

The Media Convergence Handbook sheds new light on the complexity of media convergence and the related business challenges. Approaching the topic from a managerial, technological as well as end-consumer perspective, it acts as a reference book and educational resource in the field. Media convergence at business level may imply transforming business models and using multiplatform content production and distribution tools. However, it is shown that the implementation of convergence strategies can only succeed when expectations and aspirations of every actor involved are taken into account. Media consumers, content producers and managers face different challenges in the process of media convergence. Volume II of the Media Convergence Handbook tackles these challenges by discussing media business models, production, and users' experience and perspectives from a technological convergence viewpoint.

Understanding ICT Standardization

Argues that in order to succeed, businesses must combine marketing, technology, and creativity to engage the modern consumer.

Skorokhod's Ideas in Probability Theory

Information and Communication Technologies hold great potential in facilitating public services; however, one of the main problems in applying ICT systems successfully lies in users' behavior. Before ICT can be fully assimilated into the public domain, it will first be necessary to successfully conciliate users to their adoption. ICT Adoption and Application in the Malaysian Public Sector aims to resolve the difficulties in applying practical ICT systems within the public sphere, thoroughly addressing disparities in ICT theory, user attitudes, and the underlying factors that hinder the full adoption of ICT systems. This publication is a valuable resource for policymakers, software developers, policy analysts, academic researchers, and students interested in the field of ICT.

Building Broadband

The two-volume set LNICST 150 and 151 constitutes the thoroughly refereed post-conference proceedings of the First International Internet of Things Summit, IoT360 2014, held in Rome, Italy, in October 2014. This volume contains 74 full papers carefully reviewed and selected from 118 submissions at the following four conferences: the First International Conference on Cognitive Internet of Things Technologies, COIOTE 2014; the First International Conference on Pervasive Games, PERGAMES 2014; the First International Conference on IoT Technologies for HealthCare, HealthyIoT 2014; and the First International Conference on IoT as a Service, IoTaaS 2014. The papers cover the following topics: user-centric IoT; artificial intelligence techniques for the IoT; the design and deployment of pervasive games for various sectors, such as health and wellbeing, ambient assisted living, smart cities and societies, education, cultural heritage, and tourism; delivery of electronic healthcare; patient care and medical data management; smart objects; networking considerations for IoT; platforms for IoTaaS; adapting to the IoT environment; modeling IoTaaS; machine to machine support in IoT.

Building the Knowledge Society on the Internet: Sharing and Exchanging Knowledge in Networked Environments

This publication studies the way information technology can be used to achieve broader developmental goals and integrate the region into the global information society. It addresses three main questions: what kind of information society is desirable; what are the specific regional traits of the move towards an information society; what policies are needed to support the transition. The book also contains the text of the Bavaro Declaration, which lays out some guiding principles.

The Great Convergence

From 1820 to 1990 the share of world income going to today's wealthy nations soared from 20% to 70%. That share has recently plummeted. Richard Baldwin shows how the combination of high tech with low wages propelled industrialization in developing nations, deindustrialization in developed nations, and a commodity supercycle that is petering out.

Smart Cities and Artificial Intelligence

Internet of Things. User-Centric IoT

Petros Iosifidis addresses an increasingly prominent subject area in the field of media and communications, and one that has attracted increased attention in areas such as sociology, economics, political science and law: global media policy and regulation. Specifically, he considers the wider social, political, economic and technological changes arising from the globalization of the communications industries and assesses their impact on matters of regulation and policy. By focusing on the convergence of the communication and media industries, he makes reference to the paradigmatic shift from a system based on the traditions of public service in broadcast and telecommunications delivery to one that is demarcated by commercialization, privatization and competition. In doing so, Iosifidis tackles a key question in the field: to what extent do new media developments require changes in regulatory philosophy and objectives. It considers the various possible meanings of the public interest concept in exploring the different regulatory modes and the interplay between the local and the global in policy-making.

Convergence

Convergence of Knowledge, Technology and Society

Driven by the fascination about dramatic structural and competitive changes within telecommunication and information technology industries during the past decade, the convergence phenomenon has increasingly gained my personal attention throughout my work and studies. Therefore, not entirely coincidentally, this book was written as the result of my doctoral research at ETH Zurich, which turned out to be a challenging, yet highly rewarding endeavor. However, this work would not have been possible without the enduring support of several people. First, I would like to express my gratitude to my thesis supervisor Prof. Fritz Fahrni, for providing me with the opportunity to conduct exciting research projects in close collaboration with industry, and for supporting me with solid guidance and advice all the way. Also, I would like to thank Dr. Christian Marxt, for urging me to pursue the chosen line of enquiry, as well as for his devoted coaching, both at ETH and at Stanford, both within and beyond office hours. Furthermore, I am grateful to Prof. Georg von Krogh, for his encouraging feedback and valuable comments during various inspiring discussions.

Silent Moments in Education

Growth in the information and communication technology (ICT) sector has exploded over the past 20 years. Continuous dynamic market and technology developments in this sector have led to a phenomenon known as convergence, which is defined in this volume as the erosion of boundaries between previously separate ICT services, networks, and business practices. Some examples include cable television networks that offer phone service, Internet television, and mergers between media and telecommunications firms. The results are exciting and hold significant promise for developing countries, which can benefit from expanded

access, greater competition, and increased investments. However, convergence in ICT is challenging traditional policy and regulatory frameworks. With convergence occurring in countries across the spectrum of economic development, it is critical that policy makers and regulators understand and respond in ways that maximize the benefits while mitigating the risks. This volume analyzes the strategic and regulatory dimensions of convergence. It offers policy makers and regulators examples from countries around the world as they address this phenomenon. The authors suggest that countries that enable convergence are likely to reap the greater rewards, but the precise nature of the response will vary by country. Hence, this book offers global principles that should be tailored to local circumstances as regulatory frameworks evolve to address convergence.

Business Process Management Systems

In a previous volume (ICT-Energy-Concepts Towards Zero-Power ICT; referenced below as Vol. 1), we addressed some of the fundamentals related to bridging the gap between the amount of energy required to operate portable/mobile ICT systems and the amount of energy available from ambient sources. The only viable solution appears to be to attack the gap from both sides, i.e. to reduce the amount of energy dissipated during computation and to improve the efficiency in energy-harvesting technologies. In this book, we build on those concepts and continue the discussion on energy efficiency and sustainability by addressing the minimisation of energy consumption at different levels across the ICT system stack, from hardware to software, as well as discussing energy consumption issues in high-performance computing (HPC), data centres and communication in sensor networks. This book was realised thanks to the contribution of the project 'Coordinating Research Efforts of the ICT-Energy Community' funded from the European Union under the Future and Emerging Technologies (FET) area of the Seventh Framework Programme for Research and Technological Development (grant agreement n. 611004).

E-Health and Telemedicine: Concepts, Methodologies, Tools, and Applications

Advances in medical technology increase both the efficacy and efficiency of medical practice, and mobile technologies enable modern doctors and nurses to treat patients remotely from anywhere in the world. This technology raises issues of quality of care and medical ethics, which must be addressed. E-Health and Telemedicine: Concepts, Methodologies, Tools, and Applications explores recent advances in mobile medicine and how this technology impacts modern medical care. Three volumes of comprehensive coverage on crucial topics in wireless technologies for enhanced medical care make this multi-volume publication a critical reference source for doctors, nurse practitioners, hospital administrators, and researchers and academics in all areas of the medical field. This seminal publication features comprehensive chapters on all aspects of e-health and telemedicine, including implementation strategies; use cases in cardiology, infectious diseases, and cytology, among others; care of individuals with autism spectrum disorders; and medical image analysis.

Evolution and Standardization of Mobile Communications Technology

Convergence of the life sciences with fields including physical, chemical, mathematical, computational, engineering, and social sciences is a key strategy to tackle complex challenges and achieve new and innovative solutions. However, institutions face a lack of guidance on how to establish effective programs, what challenges they are likely to encounter, and what strategies other organizations have used to address the issues that arise. This advice is needed to harness the excitement generated by the concept of convergence and channel it into the policies, structures, and networks that will enable it to realize its goals. Convergence investigates examples of organizations that have established mechanisms to support convergent research. This report discusses details of current programs, how organizations have chosen to measure success, and what has worked and not worked in varied settings. The report summarizes the lessons learned and provides organizations with strategies to tackle practical needs and implementation challenges in areas such as infrastructure, student education and training, faculty advancement, and inter-institutional partnerships.

Intelligent Systems

"Focuses on the technology innovations that may help in building virtual businesses and making existing businesses smarter and efficient in their operations. Intended to help key decision makers understand more about introducing new technologies into businesses"--

Road Maps Towards an Information Society in Latin America and the Caribbean

The Network Society is now more than ever the essential guide to the past, consequences and future of digital communication. Fully revised, this Third Edition covers crucial new issues and updates, including: • the long history of social media and Web 2.0: why it's not as new as we think • digital youth culture as a foreshadow of future new media use • the struggle for control of the internet among Microsoft, Google, Apple and Facebook • the contribution of media networks to the current financial crisis • complete update of the literature on the facts, theories, trends and technologies of the internet • new features for students with boxes of chapter questions, conclusions and boxed explanations of key concepts This book remains an accessible, comprehensive, must-read introduction to how new media function in contemporary society.

Information Technology Governance and Service Management: Frameworks and Adaptations

With a focus on strategy and implementation, James Chang discusses business management practices and the technology that enables them. He analyzes the history of process management practices and demonstrates that BPM practices are a synthesis of radical change and continuous change practices. The book is relevant to both business and IT professionals who are presented with an

integrated view on how various management practices merge into BPM. This volume describes the many technologies that converge to form a Business Process Management System (BPMS), illustrating its standards and service-oriented architecture. About the Author James Chang is the founder and president of Ivy Consultants, Inc. He has extensive experience implementing Enterprise Resource Planning (ERP)-enabled business solutions and process-centric integration solutions for Fortune 500 companies. Mr. Chang has written several articles on BPM and EAI. He graduated cum laude with a Bachelor of Science degree in operations research and industrial engineering from Cornell University.

Handbook of Research on Big Data and the IoT

Information and communication technologies (ICT) are a vital component of successful business models. As new technologies emerge, organizations must adapt quickly and strategically to these changes or risk falling behind. Evolution and Standardization of Mobile Communications Technology examines methods of developing and regulating compatibility standards in the ICT industry, assisting organizations in their application of the latest communications technologies in their business practices. Organizations maintain competitive advantage by implementing cutting-edge technologies as soon as they appear. This book serves as a compendium of the most recent research and development in this arena, providing readers with the insight necessary to take full advantage of a wide range of ICT solutions. This book is part of the Advances in IT Standards and Standardization Research series collection.

The Network Society

Colette A. Granger's highly original book considers moments in several areas of education in which silence may serve as both a response to difficulty and a means of working through it. The author, a teacher educator, presents narratives and other textual artefacts from her own experiences of learning and instruction. She analyses them from multiple perspectives to reveal how the qualities of education's silences can make them at once difficult to observe and challenging to think about. Silent Moments in Education combines autoethnography with psychoanalytic theory and critical discourse analysis in a unique consideration of the relations teachers and learners forge with knowledge, with ideas, and with one another. This provocative and thoughtful work invites scholars and educators to consider the multiple silences of participants in education, and to respond to them with generosity and compassion.

Converge

Provides analysis of the relationship between digital information technologies and politics, relating these issues to the historical system transformation.

Information and Communication Technologies, Society and Human Beings: Theory and Framework (Festschrift in honor of Gunilla Bradley)

This volume aims to document the most important worldwide accomplishments in converging knowledge and technology, including converging platforms, methods of convergence, societal implications, and governance in the last ten years. Convergence in knowledge, technology, and society is the accelerating, transformative interaction among seemingly distinct scientific disciplines, technologies, and communities to achieve mutual compatibility, synergism, and integration, and through this process to create added value for societal benefit. It is a movement that is recognized by scientists and thought leaders around the world as having the potential to provide far-reaching solutions to many of today's complex knowledge, technology, and human development challenges. Four essential and interdependent convergence platforms of human activity are defined in the first part of this report: nanotechnology-biotechnology-information technology and cognitive science ("NBIC") foundational tools; Earth-scale environmental systems; human-scale activities; and convergence methods for societal-scale activities. The report then presents the main implications of convergence for human physical potential, cognition and communication, productivity and societal outcomes, education and physical infrastructure, sustainability, and innovative and responsible governance. As a whole, the report presents a new model for convergence. To effectively take advantage of this potential, a proactive governance approach is suggested. The study identifies an international opportunity to develop and apply convergence for technological, economic, environmental, and societal benefits. The panel also suggests an opportunity in the United States for implementing a program aimed at focusing disparate R and D energies into a coherent activity - a "Societal Convergence Initiative". This study received input from leading academic, industry, government, and NGO experts from the United States, Latin America, Europe, Asia, and Australia.

ICT Systems and Sustainability

Increasingly, information technology governance is being considered an integral part of corporate governance. There has been a rapid increase in awareness and adoption of IT governance as well as the desire to conform to national governance requirements to ensure that IT is aligned with the objectives of the organization. Information Technology Governance and Service Management: Frameworks and Adaptations provides an in-depth view into the critical contribution of IT service management to IT governance, and the strategic and tactical value provided by effective service management. A must-have resource for academics, students, and practitioners in fields affected by IT in organizations, this work gathers authoritative perspectives on the state of research on organizational challenges and benefits in current IT governance frameworks, adoption, and incorporation.

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