Convergence Of Knowledge Technology And Society B

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Converging Technologies for Improving Human Performance IGI Global
This book deals with both the understanding of, and the explanation of, knowledge about the causes, processes, and patterns of convergence innovation. It argues that the process of convergence innovation is a continuous disequilibrium between reference technology and its matching technology, adjusting the optimal balance between the functions of the two technologies. Contributors describe how convergence innovation is a learning process that requires both vertical and horizontal convergence, and case studies explore the different types of convergence innovation such as outside-in and inside-out. Convergence innovation has been taking place mainly by applying IT technologies to vast areas of conventional technologies, so that individuals or firms reap the benefits of the convergence between IT and conventional technologies. Such innovations are made possible by convergence, and they ultimately improve the welfare of human beings as companies solve diverse problems and increase employment. Examples in this book include biochemical companies in Indonesia, who were able to increase their market shares in bio-fertilizer and bio-pesticide products through bio-based technological convergence; and textile machinery firms in South Korea who have been survived by achieving convergence innovation on their core competences. This book was originally published as a special issue of the Asian Journal of Technology Innovation.

Convergence of Blockchain Technology and E-Business Springer Science & Business Media
The conventional wisdom on how technology will change the future is wrong. Mark Mills lays out a radically different and optimistic vision for what's really coming. The mainstream forecasts fall into three camps. One considers today as the "new normal," where ordering a ride or food on a smartphone or trading in bitcoins is as good as it's going to get. Another foresees a dystopian era of widespread, digitally driven job- and business-destruction. A third believes that the only technological revolution that matters will be found with renewable energy and electric cars. But according to Mills, a convergence of technologies will instead drive an economic boom over the coming decade, one that historians will characterize as the "Roaring 2020s." It will come not from any single big invention, but from the confluence of radical advances in three primary technology domains: microprocessors, materials, and machines. Microprocessors are increasingly embedded in everything. Materials, from which everything is built, are emerging with novel, almost magical capabilities. And machines, which make and move all manner of stuff, are undergoing a complementary transformation. Accelerating and enabling all of this is the Cloud, history's biggest infrastructure, which is itself based on the building blocks of next-generation microprocessors and artificial intelligence. We've seen this pattern before. The technological revolution that drove the great economic expansion of the twentieth century can be traced to a similar confluence, one that was first visible in the 1920s: a new information infrastructure (telephony), new machines (cars and power plants), and new materials (plastics and pharmaceuticals). Single inventions don't drive great, long-cycle booms. It always takes convergent revolutions in technology's three core spheres—information, materials, and machines. Over history, that's only happened a few times. We have wrung much magic from the technologies that fueled the last long boom. But the great convergence now underway will ignite the 2020s. And this time, unlike any previous historical epoch, we have the Cloud amplifying everything. The next long boom starts now.

The Cloud Revolution Springer
Convergence science is the process whereby innovation comes from the cross pollination of diverse disciplines, industries and cultures, carrying ideas and approaches across boundaries. This book is a blueprint for how this could and should occur in mental health in order to solve the complex, multi-system problems that the field faces.

The Power of Convergence Springer Nature
It is widely accepted that the key to rising incomes for workers, for investors, and

(indirectly) for welfare recipients is innovation. New ideas provide opportunities for investment in new products, new processes, and new markets. Exploitation of these opportunities by intrapreneurs and entrepreneurs gives rise to increases in labor productivity, which in turn lead to higher primary incomes for workers and investors and, via government redistributive mechanisms, larger transfers to welfare recipients. Since technology is the driver of innovation and the key to the subsequent economic and distributional benefits of this innovation, there is a need for researchers and businesspersons to have access to up-to-date information on emerging technologies and the business opportunities they provide. Technological Breakthroughs and Future Business Opportunities in Education, Health, and Outer Space discusses the economic, social, and cultural benefits that new technologies can provide in multidisciplinary industries with a unique emphasis on looking towards the impacts of these technologies across the next two decades. Within this theme, the book discusses the recent trends, future developments, and business opportunities surrounding new technologies including information technology and biotechnology. Additionally, the book investigates recent demands and disruptions in the health and education sectors as well as recent developments and forthcoming opportunities in the outer space sector and how newer technologies can enable and meet the growing demands of these industries. While covering all these technologies and their applications, this book is an ideal reference work for entrepreneurs and intrapreneurs, teachers, technologists, analysts, IT specialists, engineers, policymakers, medical professionals, government officials, space agencies, financial planners, public officials, and researchers and students working in areas that include but are not limited to technology, education, public health, medicine, business and management, aeronautics, and public policy.

Convergence and Fragmentation IGI Global
As digital technologies develop, companies envision new ways to incorporate ever more disparate elements in their products, such as the combination of computing power and telecommunications in modern smart phones. Interdisciplinary Perspectives on Business Convergence, Computing, and Legality investigates the development of convergent and interoperable systems in business environments, with a particular focus on potential legal implications that emerge when a company begins branching out into domains traditionally occupied by suppliers and consumers. Business and law professionals—both in academia and in practice—will use this book to gain a greater understanding of the growth of convergence in the field of information technologies and how such transformations affect business practices around the world.

Convergence Springer
Convergence under pressure leads to fragmentation. Therefore, the role of the newest information and communication technologies and formats in a changing Europe must be analysed not only in terms of optimistic market projections but also in terms of realistic trends toward complementary fragmentations.

Smart Cities and Artificial Intelligence IGI Global
The widespread availability of technologies has increased exponentially in recent years. This ubiquity has created more connectivity and seamless integration among technology devices. Emerging Trends and Applications of the Internet of Things is an essential reference publication featuring the latest scholarly research on the surge of connectivity between computing devices in modern society, as well as the benefits and challenges of this. Featuring extensive coverage on a broad range of topics such as cloud computing, spatial cognition, and ultrasonic sensing, this book is ideally designed for researchers, professionals, and academicians seeking current research on upcoming advances in the Internet of Things (IoT).

An International Perspective on Advancing Technologies and Strategies for Managing Dual-Use Risks Springer
Virtual teams are work arrangements where team members are geographically dispersed and work interdependently using electronic communication media to accomplish one or more organizational tasks. Over the past several decades, there has been an explosive growth in organizational use of virtual teams to organize work. In the competitive market, virtual teams represent a growing response to the need for faster time to market, low cost, and rapid solutions to complex organizational problems. Organizations are increasingly investing in virtual teams to enhance their performance and competitiveness. However, there are unsolved issues of design

and implementation of collaboration technologies for virtual teams and their collaborative convergence. Collaborative Convergence and Virtual Teamwork for Organizational Transformation is an innovative collection of research that analyzes and discusses successful organizational transformation that requires a holistic understanding of the issues linked to team and workplaces, communication and integration, technological barriers, and sociocultural factors. The chapters highlight topics such as collaboration technologies in virtual teamwork, collaboration technologies' impact on organizational transformation, as well as web-based tools, collaborative learning tools, group decision support systems, workflow automation systems, and more. This book is ideally intended for business professionals, managers and practitioners, stakeholders, researchers, academicians, and students looking for the latest research in virtual teamwork and its impact on organizational transformation.

Converging Technologies for Improving Human Performance National Academies Press
In the ever-evolving telecommunication industry, technological improvements alone are not able to keep up with the significant growth of mobile broadband traffic. As such, new research on communications networks is necessary to keep up with rising demand. Convergence of Broadband, Broadcast, and Cellular Network Technologies addresses the problems of broadband, broadcast, and cellular coexistence, including the increasing number of advanced mobile users and their bandwidth demands. This book will serve as a link between academia and industry, serving students, researchers, and industry professionals.

Convergence Mental Health Intellect Books
As part of a study of current and future research in the life sciences that contains applications relevant to development of agents of biological origin 5 to 10 years into the future, an NRC/IOM committee held an international workshop in 2004 to examine advancing technologies from a global point of view. Experts from different fields and from around the world presented their diverse outlooks on these technologies and forces that drive technological progress; local and regional capacities for life sciences research, development, and application (both beneficial and nefarious); national perceptions of the dual-use risk of advancing technologies; and strategic measures that have been taken or could be taken to manage the use of technology for malevolent purposes. This report summarizes the formal and informal discussions held at the workshop.

Collaborative Convergence and Virtual Teamwork for Organizational Transformation Springer
Blockchain and artificial intelligence (AI) in industrial internet of things is an emerging field of research at the intersection of information science, computer science, and electronics engineering. The radical digitization of industry coupled with the explosion of the internet of things (IoT) has set up a paradigm shift for industrial and manufacturing companies. There exists a need for a comprehensive collection of original research of the best performing methods and state-of-the-art approaches in this area of blockchain, AI, and the industrial internet of things in this new era for industrial and manufacturing companies. Blockchain and AI Technology in the Industrial Internet of Things compares different approaches to the industrial internet of things and explores the direct impact blockchain and AI technology have on the betterment of the human life. The chapters provide the latest advances in the field and provide insights and concerns on the concept and growth of the industrial internet of things. While including research on security and privacy, supply chain management systems, performance analysis, and a variety of industries, this book is ideal for professionals, researchers, managers, technologists, security analysts, executives, practitioners, researchers, academicians, and students looking for advanced research and information on the newest technologies, advances, and approaches for blockchain and AI in the industrial internet of things.

Managing Nano-Bio-Info-Cogno Innovations CRC Press
World-renowned economist Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, explains that we have an opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is different in scale, scope and complexity from any that have come before. Characterized by a range of new technologies that are fusing the physical, digital and biological worlds, the developments are affecting all disciplines, economies, industries and governments, and even challenging ideas about what it means to be human. Artificial intelligence is already all around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing, smart thermostats, wearable sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than steel and a million times thinner than a strand of hair and the first transplant of a 3D printed liver are already in development. Imagine "smart factories" in which global systems of manufacturing are coordinated virtually, or implantable mobile phones made of biosynthetic materials. The fourth industrial revolution, says

Schwab, is more significant, and its ramifications more profound, than in any prior period of human history. He outlines the key technologies driving this revolution and discusses the major impacts expected on government, business, civil society and individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future—one in which technology empowers people rather than replaces them; progress serves society rather than disrupts it; and in which innovators respect moral and ethical boundaries rather than cross them. We all have the opportunity to contribute to developing new frameworks that advance progress.

Virtual Sociocultural Convergence Springer Science & Business Media

M. C. Roco and W.S. Bainbridge In the early decades of the 21st century, concentrated efforts can unify science based on the unity of nature, thereby advancing the combination of nanotechnology, biotechnology, information technology, and new technologies based in cognitive science. With proper attention to ethical issues and societal needs, converging in human abilities, societal technologies could achieve a tremendous improvement outcomes, the nation's productivity, and the quality of life. This is a broad, cross cutting, emerging and timely opportunity of interest to individuals, society and humanity in the long term. The phrase "convergent technologies" refers to the synergistic combination of four major "NBIC" (nano-bio-info-cogno) provinces of science and technology, each of which is currently progressing at a rapid rate: (a) nanoscience and nanotechnology; (b) biotechnology and biomedicine, including genetic engineering; (c) information technology, including advanced computing and communications; (d) cognitive science, including cognitive neuroscience. Timely and Broad Opportunity. Convergence of diverse technologies is based on material unity at the nanoscale and on technology integration from that scale.

Convergence of Knowledge, Technology and Society Currency

This book comprises the proceedings of ICITCS 2021. It aims to provide a snapshot of the latest issues encountered in IT convergence and security. The book explores how IT convergence and security are core to most current research, industrial, and commercial activities. Topics covered in this book include machine learning & deep learning, communication and signal processing, computer vision and applications, future network technology, artificial intelligence and robotics, software engineering and knowledge engineering, intelligent vehicular networking and applications, health care and wellness, web technology and applications, Internet of things, and security & privacy. Through this book, readers gain an understanding of the current state-of-the-art information strategies and technologies in IT convergence and security. The book is of use to researchers in academia, industry, and other research institutes focusing on IT convergence and security.

Handbook of Science and Technology Convergence Oxford University Press, USA

The convergence of nanoscience, biotechnology, information technology, and cognitive science (NBIC) offers immense opportunities for the improvement of human abilities, social outcomes, the nation's productivity, and its quality of life; it also represents a major new frontier in research and development. This conclusion was reached at a December 2001 workshop held by the National Science Foundation and the Department of Commerce in which leading experts from government, the academic research community and the private sector explored the nature and size of the potential opportunities in NBIC convergence. The report that resulted from this workshop, asserting that NBIC convergence is a broad, cross-cutting, emerging and timely opportunity of interest to individuals, society and humanity in the long term, recommended that an R&D initiative focusing on enhancing human performance (while governed by respect for human welfare and dignity) should become a national priority. The NBIC Convergence 2003 conference was organized as a first step in realizing the vision of this report. In this volume, a panel of nationally recognized experts analyzes the opportunities NBIC convergence prese

Convergence in Information and Communication Technology IGI Global

The technological revolution has reached around the world, with important consequences for business, government, and the labor market. Computer-aided design, telecommunications, and other developments are allowing small players to compete with traditional giants in manufacturing and other fields. In this volume, 16 engineering and industrial experts representing eight countries discuss the growth of technological advances and their impact on specific industries and regions of the world. From various perspectives, these distinguished commentators describe the practical aspects of technology's reach into business and trade.

The Great Convergence Springer

From technology giants to major airlines to government agencies, the landscape is littered with the shells of once-promising enterprises that failed to partner technology and business. Their lost opportunities and billions wasted provide a much-needed wake-up call to businesses. In this forward-thinking guide, author Faisal Hoque adopts that call to teach readers how to capture and leverage the power of business-technology convergence. The Power of Convergence provides the framework and mechanisms for uniting business and technology, seeding horizontal collaborations and partnering opportunities, and capturing strategic possibilities created through convergence. Readers will also discover the importance of not only laying the groundwork for the role of technology in business, but also institutionalizing operational practices to pave the way for continued success. No technology should be developed or deployed without a full vision of how it serves the greater needs of the company. Rather, technology should be so tightly intertwined with strategy that the two drive each other, with each at the ready when market opportunity materializes--however suddenly. With compelling examples of successes and failures at organizations from Ford Motor Company to the FBI, The Power of Convergence provides business leaders with the tools they need to overcome the business/technology disconnect and utilize these both to achieve sustainable results.

Media Convergence Handbook - Vol. 2 Springer Science & Business Media

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.

Brain– Computer Interfaces Handbook River Publishers

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

Convergenomics Harvard University Press

This book explores the remarkable sociocultural convergence in multiplayer online games and other virtual worlds, through the unification of computer science, social science, and the humanities. The emergence of online media provides not only new methods for collecting social science data, but also contexts for developing theory and conducting education in the arts as well as technology. Notably, role-playing games and virtual worlds naturally demonstrate many classical concepts about human behaviour, in ways that encourage innovative thinking. The inspiration derives from the internationally shared values developed in a fifteen-year series of conferences on science and technology convergence. The primary methodology is focused on sending avatars, representing classical social theorists or schools of thought, into online gameworlds that harmonize with, or challenge, their fundamental ideas, including technological determinism, urban sociology, group formation, freedom versus control, class stratification, linguistic variation, functional equivalence across cultures, behavioural psychology, civilization collapse, and ethnic pluralism. Researchers and students in the social and behavioural sciences will benefit from the many diverse examples of how both qualitative and quantitative science of culture and society can be performed in online communities of many kinds, even as artists and gamers learn styles and skills they may apply in their own work and play.