Big Control Infrastructure For Collaborative Device Swarms

The proposed book talks about the participation of human in Big Data.How human as a component of system can help in making the decision process easier and vibrant.It studies the basic build structure for big data and also includes advanced research topics.In the field of Biological sciences, it comprises genomic and proteomic data also. The book swaps traditional data management techniques with more robust and vibrant methodologies that focus on current requirement and demand through human computer interfacing in order to cope up with present business demand. Overall, the book is divided in to five parts where each part contains 4-5 chapters on versatile domain with human side of Big Data.

The world of public management is changing dramatically, fueled by technological innovations such as the Internet, globalism that permits us to outsource functions anywhere in the world, new ideas from network theory, and more. Public managers no longer are unitary leaders of unitary organizations - instead, they often find themselves convening, negotiating, mediating, and collaborating across borders."Big Ideas in Collaborative Public Management" brings together a rich variety of big picture perspectives on collaborative public management. The chapters are all original and written by distinguished experts. Designed for practical application, they range from examinations of under what conditions collaborative public management occurs to what it means to be a collaborative leader.The contributors address tough issues such as legitimacy building in networks, and discuss ways to engage citizens in

collaboration. They examine the design of collaborative networks and the outcomes of collaboration. Detailed introductory and concluding chapters by the editors summarize and critique the chapters, and frame them as a reflection of the state of collaborative public management today.

Fundamental Theories of Mega Infrastructure Construction Management: Theoretical Considerations from Chinese Practices is a collection of decades of research and applications of managing megaprojects using theories of complex systems and management sciences. It presents basic (classical) theory of megaproject management and is a showcase of more than 30 years of research of complex system and management sciences on the theory of megaproject management resulting from the integrating of theory and practice of megaprojects. The theory and models have undergone rigorous systematic testing during the management and implementation of megaprojects in China. Megaprojects are huge undertakings, often in infrastructure (bridges, tunnels, airports, etc.) that involve huge levels of investment, often take years to complete, and typically run into delays, cost overruns, and any number of unforeseen problems. Over the last few decades, no one country has undertaken more of these projects than China, and this book presents the fundamental theories underlying the practice of Mega Infrastructure Construction Management as practiced in China. Individual chapters provide a basic definition of Mega Infrastructure Construction and it’s management; an overview of the theories behind it; the Formation Path; basic concepts; fundamental principles; scientific problems; the Method System of Meta-synthesis; specialized methods in research; and intelligent management of Mega Infrastructure Construction. Although the theoretical construction management problems in this book are derived from construction

practices in China, they can be applied universally and extended for great fundamental significance.

The definitive guide to successfully integrating social, mobile, Big-Data analytics, cloud and IoT principles and technologies The main goal of this book is to spur the development of effective big-data computing operations on smart clouds that are fully supported by IoT sensing, machine learning and analytics systems. To that end, the authors draw upon their original research and proven track record in the field to describe a practical approach integrating big-data theories, cloud design principles, Internet of Things (IoT) sensing, machine learning, data analytics and Hadoop and Spark programming. Part 1 focuses on data science, the roles of clouds and IoT devices and frameworks for big-data computing. Big data analytics and cognitive machine learning, as well as cloud architecture, IoT and cognitive systems are explored, and mobile cloud-IoT-interaction frameworks are illustrated with concrete system design examples. Part 2 is devoted to the principles of and algorithms for machine learning, data analytics and deep learning in big data applications. Part 3 concentrates on cloud programming software libraries from MapReduce to Hadoop, Spark and TensorFlow and describes business, educational, healthcare and social media applications for those tools. The first book describing a practical approach to integrating social, mobile, analytics, cloud and IoT (SMACT) principles and technologies Covers theory and computing techniques and technologies, making it suitable for use in both computer science and electrical engineering programs Offers an extremely well-informed vision of future intelligent and cognitive computing environments integrating SMACT technologies Fully illustrated throughout with examples, figures and approximately 150 problems to support and reinforce learning Features a

companion website with an instructor manual and PowerPoint slides www.wiley.com/go/hwangIOT Big-Data Analytics for Cloud, IoT and Cognitive Computing satisfies the demand among university faculty and students for cutting-edge information on emerging intelligent and cognitive computing systems and technologies. Professionals working in data science, cloud computing and IoT applications will also find this book to be an extremely useful working resource.

"In the current business landscape, many business firms compete in one project and cooperate in another related project, and they do so at the same time. Even more interesting is that certain members of these firms are involved in both projects. This book examines this new business landscape"--Résumé de l'éd.

This book provides a simplified visionary approach about the future direction of IoT, addressing its wide-scale adoption in many markets, its interception with advanced technology, the explosive growth in data, and the emergence of data analytics. IoT business applications span multiple vertical markets. The objective is to inspire creative thinking and collaboration among startups and entrepreneurs which will breed innovation and deliver IoT solutions that will positively impact us by making business processes more efficient, and improving our quality of life. With increasing proliferation of smart-phones and social media, data generated by user wearable/mobile devices continue to be key sources of information about us and the markets around us. Better insights will be gained through cognitive computation coupled with business intelligence and visual analytics that are GIS-based.

This volume describes, analyzes, and critiques the design and evolution of the Laboratory for Analytic Sciences (LAS), a National Security Agency-funded big data laboratory. The LAS

consists of teams of intelligence personnel, who provide practical understanding of needs, targets, and tradecraft, working collaboratively with university scholars and industry partners of varying disciplines to bring their collective expert knowledge and understanding to improve the tools and tradecraft of intelligence. This book details the theoretical and practical lessons that can be drawn from the LAS for the development of cross-sector, interdisciplinary collaboration. It will inform scholars and practitioners in intelligence, communication, design, management, public policy, political science, and indeed all arenas currently grappling with the desire to engage multiple and diverse stakeholders in the research and development of innovative solutions to the world's most challenging problems.

This book reports on the latest advances on the theories, practices, standards and strategies that are related to the modern technology paradigms, the Mobile Cloud computing (MCC) and Big Data, as the pillars and their association with the emerging 5G mobile networks. The book includes 15 rigorously refereed chapters written by leading international researchers, providing the readers with technical and scientific information about various aspects of Big Data and Mobile Cloud Computing, from basic concepts to advanced findings, reporting the state-of-the-art on Big Data management. It demonstrates and discusses methods and practices to improve multi-source Big Data manipulation techniques, as well as the integration of resources availability through the 3As (Anywhere, Anything, Anytime) paradigm, using the 5G access technologies.

Networks and other collaborations are central to the public sector's ability to respond to their diverse responsibilities, from international development and regional governance, to policy development and service provision. Great strides have been made toward

understanding their formation, governance and management, but more opportunities to explore methodologies and measures is required to ensure they are properly understood. This volume showcases an array of selected research methods and analytics tools currently used by scholars and practitioners in network and collaboration research, as well as emerging styles of empirical investigation. Although it cannot attempt to capture all technical details for each one, this book provides a unique catalogue of compelling methods for researchers and practitioners, which are illustrated extensively with applications in the public and non-profit sector. By bringing together leading and upcoming scholars in network research, the book will be of enormous assistance in guiding students and scholars in public management to study collaboration and networks empirically by demonstrating the core research approaches and tools for investigating and evaluating these crucially important arrangements. Information Control Problems in Manufacturing 2006 contains the Proceedings of the 12th IFAC Symposium on Information Control Problems in Manufacturing (INCOM'2006). This symposium took place in Saint Etienne, France, on May 17-19 2006. INCOM is a tri-annual event of symposia series organized by IFAC and it is promoted by the IFAC Technical Committee on Manufacturing Plant Control. The purpose of the symposium INCOM'2006 was to offer a forum to present the state-of-the-art in international research and development work, with special emphasis on the applications of optimisation methods, automation and IT technologies in the control of

manufacturing plants and the entire supply chain within the enterprise. The symposium stressed the scientific challenges and issues, covering the whole product and processes life cycle, from the design through the manufacturing and maintenance, to the distribution and service. INCOM'2006 Technical Program also included a special event on Innovative Engineering Techniques in Healthcare Delivery. The application of engineering and IT methods in medicine is a rapidly growing field with many opportunities for innovation. The Proceedings are composed of 3 volumes: Volume 1 - Information Systems, Control & Interoperability Volume 2 - Industrial Engineering Volume 3 - Operational Research * 3-volume set, containing 362 carefully reviewed and selected papers * presenting the state-of-the-art in international research and development in Information Control problems in Manufacturing

"This set addresses a range of e-collaboration topics through advanced research chapters authored by an international partnership of field experts"--Provided by publisher.

A guide to technology and implementation issues in the groupware field. Each chapter contains a compendium between commercial groupware and WWW technology -- intranets.

Increasingly, organizations allocate a substantial financial budget to the acquisition, implementation, and management of IT solutions. IT solutions are employed strategic partners in supporting business strategic outcome, and the solutions are tools used to

support operational activities within an environment. Given the vast amounts being invested in IT solutions and development, there is a need for a better return and outcome for organizations. Empowering Businesses With Collaborative Enterprise Architecture Frameworks is an essential reference source that provides readers with pragmatic, implementable strategies and direction to create IT with collaborative capabilities that can reduce the cost of running IT within an organization. Moreover, the book offers pragmatic roadmaps to adopting disruptive IT solutions effectively and efficiently and towards gaining a better understanding of enterprise architecture as a means to business decision making. Featuring research on topics such as business engineering, cloud computing, and open systems, this book is ideally designed for managers, directors, and other business decision makers; government and industry policymakers; business and enterprise architects; industry professionals; academicians; researchers; and students.

This book presents different use cases in big data applications and related practical experiences. Many businesses today are increasingly interested in utilizing big data technologies for supporting their business intelligence so that it is becoming more and more important to understand the various practical issues from different practical use cases. This book provides clear proof that big data technologies are playing an ever increasing important and critical role in a new cross-discipline research between computer science and business.

?Using the domain of crisis management, Christian Reuter explores challenges and opportunities for technology design in emergent environments. He therefore empirically analyzes collaborative work in inter-organizational crisis – such as the police, fire departments, energy network operators and citizens – in order to identify collaboration practices that reveal work infrastructure limitations. He also designs, implements and evaluates novel concepts and ICT artifacts towards the support of emergent collaboration. Besides the discovery of potential organizational effects on the ability to deal with emergence he presents methodological implications for technology design. Discusses the impact of emerging trends in information technology towards solutions capable of managing information within open, principally unbounded, operational environments.

Building the Agile Enterprise with Capabilities, Collaborations and Values, Second Edition covers advances that make technology more powerful and pervasive while, at the same time, improving alignment of technology with business. Using numerous examples, illustrations, and case studies, Fred Cummins, an industry expert, author and former fellow with EDS and Hewlett Packard, updates his first edition incorporating the following industry developments: The ubiquitous use of the Internet along with intelligent, mobile devices, which have enabled everyone and everything to be connected anytime, anywhere The emergence of a “business architecture discipline that has driven improvements in business design and transformation practices The development of CMMN (Case Management Model and Notation) that will provide automation to support the collaboration of knowledge workers and managers The development

of VDML (Value Delivery Modeling Language) that supports modeling of business design from a management perspective The importance of “big data management and analysis as a new source of insight into evolution of the business and the ecosystem How the architecture of the agile enterprise and business modeling change enterprise governance, management and innovation Building the Agile Enterprise with Capabilities, Collaborations and Values, Second Edition is a must have reference for business leaders, CTOs; business architects, information systems architects and business process modeling professionals who wish to close the gap between strategic planning and business operations as well as the gap between business and IT and enhance the creation and delivery of business value. Explains how business design abstraction based on collaborations, capabilities and values provides a management view of how the business works, the aspects to be improved or changed, and the means to quickly reconfigure to address new business challenges and opportunities Discusses how technology must be exploited for efficiency, effectiveness, innovation and agility Provides practicable and use-case based insights from advisory work with Fortune 100 and 500 companies across multiple verticals Presents the features of CMMN (Case Management Model and Notation) and explains how it enables automation to support knowledge workers, managers and enterprise agility Describes application of the Value Delivery Modeling Language (VDML) to link strategic business transformation to operational design

This volume comprises papers arising from the 7th Enabling Technologies workshop - WET-ICE '98. Topics include: access to information; collaboration; mobile agents;coordination; mobile computing; and intelligent agents and multi-agent systems.

This text serves as a complete introduction to the subject of knowledge management,

incorporating technical, and social aspects of knowledge management, as well as practical examples, traditional approaches, and emerging topics.

Big Ideas in Collaborative Public ManagementRoutledge

The book describes how to manage and successfully deliver large, complex, and expensive systems that can be composed of millions of line of software code, being developed by numerous groups throughout the globe, that interface with many hardware items being developed by geographically dispersed companies, where the system also includes people, policies, constraints, regulations, and a myriad of other factors. It focuses on how to seamlessly integrate systems, satisfy the customer's requirements, and deliver within the budget and on time. The guide is essentially a "shopping list" of all the activities that could be conducted with tailoring guidelines to meet the needs of each project.

This book constitutes the refereed proceedings of the 18th IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2017, held in Vicenza, Italy, in September 2017. The 68 revised full papers were carefully reviewed and selected from 159 submissions. They provide a comprehensive overview of identified challenges and recent advances in various collaborative network (CN) domains and their applications, with a strong focus on the following areas: collaborative models, platforms and systems for data-rich worlds; manufacturing ecosystem and collaboration in Industry 4.0; big data analytics and intelligence; risk, performance, and uncertainty in collaborative data-rich systems; semantic data/service discovery, retrieval, and composition in a collaborative data-rich world; trust and sustainability analysis in collaborative networks; value creation and social impact of collaboration in data-rich worlds; technology development platforms supporting collaborative systems; collective intelligence and

collaboration in advanced/emerging applications: collaborative manufacturing and factories of the future, e-health and care, food and agribusiness, and crisis/disaster management.

This book constitutes the refereed proceedings of the Third International Conference on Advances in Information Systems, ADVIS 2004, held in Izmir, Turkey in October 2004. The 61 revised full papers presented were carefully reviewed and selected from 203 submissions. The papers are organized in topical sections on databases and datawarehouses, data mining and knowledge discovery, Web information systems development, information systems development and management, information retrieval, parallel and distributed data processing, multimedia information systems, information privacy and security, evolutionary and knowledge-based systems, software engineering and business process modeling, and network management.

The amount of data in everyday life has been exploding. This data increase has been especially significant in scientific fields, where substantial amounts of data must be captured, communicated, aggregated, stored, and analyzed. Cloud Computing with e-Science Applications explains how cloud computing can improve data management in data-heavy fields such as bioinformatics, earth science, and computer science. The book begins with an overview of cloud models supplied by the National Institute of Standards and Technology (NIST), and then: Discusses the challenges imposed by big data on scientific data infrastructures, including security and trust issues Covers vulnerabilities such as data theft or loss, privacy concerns, infected applications, threats in virtualization, and cross-virtual machine attack Describes the implementation of workflows in clouds, proposing an architecture composed of two layers—platform and application Details infrastructure-as-a-service (IaaS),

platform-as-a-service (PaaS), and software-as-a-service (SaaS) solutions based on public, private, and hybrid cloud computing models Demonstrates how cloud computing aids in resource control, vertical and horizontal scalability, interoperability, and adaptive scheduling Featuring significant contributions from research centers, universities, and industries worldwide, Cloud Computing with e-Science Applications presents innovative cloud migration methodologies applicable to a variety of fields where large data sets are produced. The book provides the scientific community with an essential reference for moving applications to the cloud.

This book is a comprehensive collection of chapters focusing on the core areas of computing and their further applications in the real world. Each chapter is a paper presented at the Computing Conference 2021 held on 15-16 July 2021. Computing 2021 attracted a total of 638 submissions which underwent a double-blind peer review process. Of those 638 submissions, 235 submissions have been selected to be included in this book. The goal of this conference is to give a platform to researchers with fundamental contributions and to be a premier venue for academic and industry practitioners to share new ideas and development experiences. We hope that readers find this volume interesting and valuable as it provides the state-of-the-art intelligent methods and techniques for solving real-world problems. We also expect that the conference and its publications is a trigger for further related research and technology improvements in this important subject. .

After twenty-five years of preparation, the Large Hadron Collider at CERN, Geneva, is finally running its intensive scientific experiments into high-energy particle physics. These experiments, which have so captured the public's imagination, take the world of physics to a

new energy level, the terascale, at which elementary particles are accelerated to one millionth of a percent of the speed of light and made to smash into each other with a combined energy of around fourteen trillion electron-volts. What new world opens up at the terascale? No one really knows, but the confident expectation is that radically new phenomena will come into view. The kind of 'big science' being pursued at CERN, however, is becoming ever more uncertain and costly. Do the anticipated benefits justify the efforts and the costs? This book aims to give a broad organizational and strategic understanding of the nature of 'big science' by analyzing one of the major experiments that uses the Large Hadron Collider, the ATLAS Collaboration. It examines such issues as: the flow of 'interlaced' knowledge between specialist teams; the intra- and inter-organizational dynamics of 'big science'; the new knowledge capital being created for the workings of the experiment by individual researchers, suppliers, and e-science and ICTs; the leadership implications of a collaboration of nearly three thousand members; and the benefits for the wider societal setting. This book aims to examine how, in the face of high levels of uncertainty and risk, ambitious scientific aims can be achieved by complex organizational networks characterized by cultural diversity, informality, and trust - and where 'big science' can head next.

Web service technologies are redefining the way that large and small companies are doing business and exchanging information. Due to the critical need for furthering automation, engagement, and efficiency, systems and workflows are becoming increasingly more web-based. Web Services: Concepts, Methodologies, Tools, and Applications is an innovative reference source that examines relevant theoretical frameworks, current practice guidelines, industry standards and standardization, and the latest empirical research findings in web

services. Highlighting a range of topics such as cloud computing, quality of service, and semantic web, this multi-volume book is designed for computer engineers, IT specialists, software designers, professionals, researchers, and upper-level students interested in web services architecture, frameworks, and security.

Big Data Analytics for Sensor-Network Collected Intelligence explores state-of-the-art methods for using advanced ICT technologies to perform intelligent analysis on sensor collected data. The book shows how to develop systems that automatically detect natural and human-made events, how to examine people's behaviors, and how to unobtrusively provide better services. It begins by exploring big data architecture and platforms, covering the cloud computing infrastructure and how data is stored and visualized. The book then explores how big data is processed and managed, the key security and privacy issues involved, and the approaches used to ensure data quality. In addition, readers will find a thorough examination of big data analytics, analyzing statistical methods for data analytics and data mining, along with a detailed look at big data intelligence, ubiquitous and mobile computing, and designing intelligence system based on context and situation. Indexing: The books of this series are submitted to EI-Compendex and SCOPUS Contains contributions from noted scholars in computer science and electrical engineering from around the globe Provides a broad overview of recent developments in sensor collected intelligence Edited by a team comprised of leading thinkers in big data analytics

The bestselling guide to the field, updated with the latest innovations Essentials of Supply Chain Management is the definitive guide to the field, providing both broad coverage and necessary detail from a practical, real-world perspective. From clear explanation of

fundamental concepts to insightful discussion of supply chain innovation, this book offers students and professionals a comprehensive introduction with immediately-applicable understanding. The fourth edition has been updated to reflect the current state of the field, with coverage of the latest technologies and new case studies that illustrate critical concepts in action. Organized for easy navigation and ease-of-use, this invaluable guide also serves as a quick reference for managers in the field seeking tips and techniques for maximizing efficiency and turning the supply chain into a source of competitive advantage. The supply chain underpins the entire structure of manufacturing and retailing. Well-run, it can help a company become a global behemoth—or, if poorly-managed, it can sink a company before the product ever sees the light of day. The supply chain involves many moving parts, constantly-changing variables, and a network of other business that may have different priorities and interests—keeping it all running smoothly is a complex, but immensely powerful skill. This book takes you inside the supply chain to show you what you need to know. Understand the fundamental concepts behind supply chain management Learn how supply chains work, and how to measure their performance Explore the ways in which innovation is improving supply chains around the world Examine the supply chain as a source of competitive advantage Whether you're at the front or the back of your supply chain, your business is affected by every other company and event in the chain. Deep understanding and a host of practical skills are required to accurately predict, react to, and manage the ever-changing stream of events that could potentially disrupt the flow. Essentials of Supply Chain Management prepares you to take on the challenge and succeed.

In order to meet the needs of a changing and demanding society, many academic institutions

face great competition for highly coveted, yet dwindling, resources. Traditionally, libraries were a centralized focus on any campus; however, these facilities are now facing budget cuts and decreased resources, forcing them to seek out the necessary partnerships to obtain the support needed to continue to provide services to students and staff. Technology-Centered Academic Library Partnerships and Collaborations examines cooperation efforts employed by librarians, allowing them to provide more services and resources to their patrons with an emphasis on the digital tools and resources being used in such collaborations. Featuring research on various types of partnerships and institutional relationships, as well as the overall benefits of these collaborations, this publication is an essential reference source for librarians, researchers, academic administrators, advanced-level students, and information technology professionals.

The anthrax incidents following the 9/11 terrorist attacks put the spotlight on the nation's public health agencies, placing it under an unprecedented scrutiny that added new dimensions to the complex issues considered in this report. The Future of the Public's Health in the 21st Century reaffirms the vision of Healthy People 2010, and outlines a systems approach to assuring the nation's health in practice, research, and policy. This approach focuses on joining the unique resources and perspectives of diverse sectors and entities and challenges these groups to work in a concerted, strategic way to promote and protect the public's health. Focusing on diverse partnerships as the framework for public health, the book discusses: The need for a shift from an individual to a population-based approach in practice, research, policy, and community engagement. The status of the governmental public health infrastructure and what needs to be improved, including its interface with the health care delivery system. The roles

nongovernment actors, such as academia, business, local communities and the media can play in creating a healthy nation. Providing an accessible analysis, this book will be important to public health policy-makers and practitioners, business and community leaders, health advocates, educators and journalists.

The 11thInternational Conference on Cyber Warfare and Security (ICCWS 2016) is being held at Boston University, Boston, USA on the 17-18th March 2016. The Conference Chair is Dr Tanya Zlateva and the Programme Chair is Professor Virginia Greiman, both from Boston University. ICCWS is a recognised Cyber Security event on the International research conferences calendar and provides a valuable platform for individuals to present their research findings, display their work in progress and discuss conceptual and empirical advances in the area of Cyber Warfare and Cyber Security. It provides an important opportunity for researchers and managers to come together with peers to share their experiences of using the varied and expanding range of Cyberwar and Cyber Security research available to them. The keynote speakers for the conference are Daryl Haegley from the Department of Defense (DoD), who will address the topic Control Systems Networks...What's in Your Building? and Neal Ziring from the National Security Agency who will be providing some insight to the issue of Is Security Achievable? A Practical Perspective. ICCWS received 125 abstract submissions this year. After the double blind, peer review process there are 43 Academic Research Papers 8 PhD papers Research papers, 7 Masters and 1 work-in-progress papers published in these Conference Proceedings. These papers represent work from around the world, including: Australia, Canada, China, Czech Republic, District of Columbia, Finland, France, Israel, Japan, Lebanon, Netherlands, Pakistan, Russian Federation, Saudi Arabia, South Africa, Turkey,

United Arab Emirates, UK, USA.

As population growth accelerates, researchers and professionals face challenges as they attempt to plan for the future. E-planning is a significant component in addressing the key concerns as the world population moves towards urban environments. E-Planning and Collaboration: Concepts, Methodologies, Tools, and Applications contains a compendium of the latest academic material on the emerging interdisciplinary areas of e-planning and collaboration. Including innovative studies on data management, urban development, and crowdsourcing, this multi-volume book is an ideal source for planners, policymakers, researchers, and graduate students interested in how recent technological advancements are enhancing the traditional practices in e-planning.

The growth of Internet use and technologies has increased exponentially within the business sector. When utilized properly, these applications can enhance business functions and make them easier to perform. Exploring the Convergence of Big Data and the Internet of Things is a pivotal reference source featuring the latest empirical research on the business use of computing devices to send and receive data in conjunction with analytic applications to reduce maintenance costs, avoid equipment failures, and improve business operations. Including research on a broad range of topics such as supply chain, aquaculture, and

speech recognition systems, this book is ideally designed for researchers, academicians, and practitioners seeking current research on various technology uses in business.

"This book provides fundamental research on the architecture of learning technology systems, discussing such issues as the common structures in LTS and solutions for specific forms such as knowledge-based, distributed, or adaptive applications of e-learning. Researchers, and scholars in the fields of learning content software development, computing and educational technologies, and e-learning will find it an invaluable resource"--Provided by publisher.

Provides an understanding of best practices in building sustainable collaboration in intelligent community development.

This book is a cutting-edge exploration of the UK commercial banking industry, as reflected primarily in the experience of the four main clearing banks: Barclays, Lloyds, Midland and NatWest. What will the industry look like in the future? What strategies, cultures and organisational forms will distinguish the survivors from the non-survivors? Will the dominant form be the highly diversified, global, financial supermarket, the so-called universal bank, the more focused niche player, both, or some other type? To answer these questions, David Rogers draws upon very high level access to the leading players in this evolving industry.

This edited book presents scientific results of the 21st ACIS International Winter Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD2021-Winter) which was held on January 2830, at Ho Chi Minh City, Vietnam. The aim of this workshop was to bring together researchers and scientists, businessmen and entrepreneurs, teachers, engineers, computer users, and students to discuss the numerous fields of computer science and to share their experiences and exchange new ideas and information in a meaningful way and research results about all aspects (theory, applications, and tools) of computer and information science, and to discuss the practical challenges encountered along the way and the solutions adopted to solve them. The workshop organizers selected the best papers from those papers accepted for presentation at the workshop. The papers were chosen based on review scores submitted by members of the program committee and underwent further rigorous rounds of review. From this second round of review, 18 of most promising papers are then published in this Springer (SCI) book and not the conference proceedings. We impatiently await the important contributions that we know these authors will bring to the field of computer and information science.

In recent years the organisation and practice of collaboration in the life sciences

has undergone radical transformations, owing to the advent of big science enterprises, newly developed data gathering and storage technologies, increasing levels of interdisciplinarity, and changing societal expectations for science. Collaboration in the New Life Sciences examines the causes and consequences of changing patterns of scientific collaboration in the life sciences. This book presents an understanding of how and why collaboration in the life sciences is changing and the effects of these changes on scientific knowledge, the work lives and experiences of scientists, social policy and society. Through a series of thematically arranged chapters, it considers the social, technical, and organizational facets of collaboration, addressing not only the rise of new forms of collaboration in the life sciences, but also examining recent developments in two broad research areas: ecology and environment, and the molecular life sciences. With an international team of experts presenting case studies and analyses drawn from the US, UK, Asia and Europe, Collaboration in the New Life Sciences will appeal not only to scholars and students of science and technology studies, but also to those interested in science and social policy, and the sociology of work and organisations.

Faced with increased budget cuts, libraries must continue to advance their services through new technologies and practices in order to keep pace with the

rapid changes society is currently facing. The once traditional in-person services offered can no longer be the only option, and to keep themselves afloat, libraries must offer more in terms of digital services. The convenience of offering mobile and digital services brings a new wave of accessibility to libraries and a new question on just how much libraries will need to change to meet the newfound needs of its patrons. Beyond offering these digital services, libraries are incorporating other types of technology in multifaceted ways such as utilizing artificial intelligence practices, social media, and big data management. Moreover, libraries are increasingly looking for ways to partner and collaborate with the community, faculty, students, and other libraries in order to keep abreast of the best practices and needs of their users. The Research Anthology on Collaboration, Digital Services, and Resource Management for the Sustainability of Libraries explores emerging strategies and technologies that are redefining the role of the library within communities and academia. This reference book covers extensive ground on all the ways libraries have shifted to manage their resources, digitalize their services, and market themselves within the new technological revolution. These continued shifts for libraries come with benefits, challenges, and future projections that are critical for discussion as libraries continue to strive to remain updated and relevant in times of change. This book is

ideal for librarians, archivists, collection managers, IT specialists, electronic resource librarians, practitioners, stakeholders, researchers, academicians, and students who are interested in the current state of libraries and how they are transforming to fit modern needs.