

Big Control Infrastructure For Collaborative Device Swarms

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Big Control Infrastructure For Collaborative Device Swarms

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MILLS MOHAMMED

ENTERPRISE MANAGEMENT STRATEGIES IN THE ERA OF CLOUD COMPUTING

CRC Press

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.

[Networks and Collaboration in the Public Sector](#) Springer Science & Business Media

The Critical Infrastructure Protection Survey recently released by Symantec found that 53% of interviewed IT security experts from international companies experienced at least ten cyber attacks in the last five years, and financial institutions were often subject to some of the most sophisticated and large-scale cyber attacks and frauds. The book by Baldoni and Chockler analyzes the structure of software infrastructures found in the financial domain, their vulnerabilities to cyber attacks and the existing protection mechanisms. It then shows the advantages of sharing information among financial players in order to detect and quickly react to cyber attacks. Various aspects associated with information sharing are investigated from the organizational, cultural and legislative perspectives. The presentation is organized in two parts: Part I explores general issues associated with information sharing in the financial sector and is intended to set the stage for the vertical IT middleware solution proposed in Part II. Nonetheless, it is

self-contained and details a survey of various types of critical infrastructure along with their vulnerability analysis, which has not yet appeared in a textbook-style publication elsewhere. Part II then presents the CoMiFin middleware for collaborative protection of the financial infrastructure. The material is presented in an accessible style and does not require specific prerequisites. It appeals to both researchers in the areas of security, distributed systems, and event processing working on new protection mechanisms, and practitioners looking for a state-of-the-art middleware technology to enhance the security of their critical infrastructures in e.g. banking, military, and other highly sensitive applications. The latter group will especially appreciate the concrete usage scenarios included.

PROJECT MANAGEMENT OF LARGE SOFTWARE-INTENSIVE SYSTEMS

IGI Global

Necessity is the mother of invention; challenging times can provide new opportunities that must be detected and exploited at the right moments. The COVID-19 pandemic has demonstrated that it is not only an issue of healthcare but also a challenge for the global economy, business, and society. Organizations have rapidly deployed technology solutions that enable them to work and service remotely and continue most of their normal operations. The Handbook of Research on Technologies and Systems for E-Collaboration During Global Crises focuses on emerging technologies and systems, strategies, and solutions for e-collaboration. This book assesses the importance of technologies and systems for e-collaboration in dealing with emerging crises such as pandemics. Covering topics such as deep learning processes, machine vision, and profit-sharing models, it is an essential resource for computer scientists, public officials, engineers, students and professors of higher education, healthcare administration, programmers, researchers, and academicians.

Network-Centric Collaboration and Supporting Frameworks Cambridge Scholars Publishing

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.

[The Human Element of Big Data](#) John Wiley & Sons

Local governments do not stand alone—they find themselves in new relationships not only with state and federal government, but often with a widening spectrum of other public and private organizations as well. The result of this re-forming of local governments calls for new collaborations and managerial responses that occur in addition to governmental and bureaucratic processes-as-usual, bringing locally generated strategies or what the authors call "jurisdiction-based management" into play. Based on an extensive study of 237 cities within five states, Collaborative Public Management provides an in-depth look at how city officials work with other governments and organizations to develop their city economies and what

makes these collaborations work. Exploring the more complex nature of collaboration across jurisdictions, governments, and sectors, Agranoff and McGuire illustrate how public managers address complex problems through strategic partnerships, networks, contractual relationships, alliances, committees, coalitions, consortia, and councils as they function together to meet public demands through other government agencies, nonprofit associations, for-profit entities, and many other types of nongovernmental organizations. Beyond the "how" and "why," Collaborative Public Management identifies the importance of different managerial approaches by breaking them down into parts and sequences, and describing the many kinds of collaborative activities and processes that allow local governments to function in new ways to address the most nettlesome public challenges.

Intelligent Computing Springer

Recent advances in internet architecture have led to the advent and subsequent explosion of cloud computing technologies, providing businesses with a powerful toolbox of collaborative digital resources. These technologies have fostered a more flexible, decentralized approach to IT infrastructure, enabling businesses to operate in a more agile fashion and on a globalized scale. Enterprise Management Strategies in the Era of Cloud Computing seeks to explore the possibilities of business in the cloud. Targeting an audience of research scholars, students, software developers, and business professionals, this premier reference source provides a cutting-edge look at the exciting and multifaceted relationships between cloud computing, software virtualization, collaborative technology, and business infrastructure in the 21st Century.

Facilitating Interdisciplinary Collaboration among the Intelligence Community, Academy, and Industry IGI Global

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.

Advances in Intelligent Networking and Collaborative Systems John Wiley & Sons

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.

COLLABORATIVE PROJECT PROCUREMENT ARRANGEMENTS

John Wiley & Sons

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.

Collaborative Internet of Things (C-IoT) Routledge

Large projects, especially in the construction and infrastructure sectors, involve collaborations of many different types, such as built-own-operate, public-private partnership, or competitive dialogue. This monograph details the authors' research on the types of collaborative projects. The research undertaken for this book responds to the need for a taxonomy of relationship-based procurement approaches, a particular type of project alliancing in need of standardization. Recommendations are made based on interviews with 36 subject matter experts from several countries, as well as an extensive literature review

Empowering Businesses With Collaborative Enterprise Architecture Frameworks Springer Science & Business Media

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.

Methods and Tools for Collaborative Networked Organizations National Academies Press

Knowledge Networking explains the strategic, organizational and human impact of technologies that support knowledge: the internet, groupware, collaborative technologies. It shows how they can transform organizational practices and help to improve both individual and team performances. Based on proven experience and includes customised toolkits, cases and action plans. From pooling expertise on a sales bid via computer referencing, to improving customer service using the flexible office, the author demonstrates how potential can become practice. Knowledge management is the big management idea currently influencing organizations, and Knowledge Networking explores the global impact of sharing knowledge and expertise. It is a highly practical text which includes customised toolkits, cases and action plans to enable individuals and teams to improve their performance.

NETWORKED COMMUNITIES: STRATEGIES FOR DIGITAL COLLABORATION

Springer

Collaborative Networks is a fast developing area, as shown by the already large number of diverse real-world implemented cases and the dynamism of its related involved research community. Being recognized as the most focused scientific and technical conference on Collaborative Networks, PRO-VE continues to offer the opportunity for presentation and discussion of both the latest research developments as well as the practical application case studies.

OPEN INFORMATION MANAGEMENT: APPLICATIONS OF INTERCONNECTIVITY AND COLLABORATION

Routledge

A comprehensive discussion of the findings of the PICASSO initiative on ICT policy ICT Policy, Research, and Innovation: Perspectives and Prospects for EU-US Collaboration provides a clearly readable overview of selected information and communication technology (ICT) and policy topics. Rather than deluge the reader with technical details, the distinguished authors provide just enough technical background to make sense of the underlying policy discussions. The book covers policy, research, and innovation topics on technologies as wide-ranging as: Internet of Things Cyber physical systems 5G Big data ICT Policy, Research, and Innovation compares and contrasts the policy approaches taken by the EU and the US in a variety of areas. The potential for future cooperation is outlined as well. Later chapters provide policy perspectives about some major issues affecting EU/US development cooperation, while the book closes with a discussion of how the development of these new technologies is changing our conceptions of fundamental aspects of society.

Collaborative Internet of Things (C-IoT) Springer Science & Business Media

The aim of this book is to provide the latest research findings, innovative research results, methods and development techniques from both theoretical and practical perspectives related to intelligent social networks and collaborative systems, intelligent networking systems, mobile collaborative systems, secure intelligent cloud systems, etc., and to reveal synergies among various paradigms in the multi-disciplinary field of intelligent collaborative systems. It presents the Proceedings of the 9th International Conference on Intelligent Networking and Collaborative Systems (INCoS-2017), held on August 24-26, 2017 in Toronto, Canada. With the rapid evolution of the Internet, we are currently experiencing a shift from the traditional sharing of information and applications as the main purpose of the Web to an emergent paradigm that puts people at the very centre of networks and exploits the value of people's connections, relations and collaborations. Social networks are also playing a major role in the dynamics and structure of intelligent Web-based networking and collaborative systems. Virtual campuses, virtual communities and organizations effectively leverage intelligent networking and collaborative systems by tapping into a broad range of formal and informal electronic relations, such as business-to-business, peer-to-peer and many types of online collaborative learning interactions, including the emerging e-learning systems. This has resulted in entangled systems that need to be managed efficiently and autonomously. In addition, the latest and powerful technologies based on Grid and wireless infrastructure as well as Cloud computing are now greatly enhancing collaborative and networking applications, but are also facing new issues and challenges. The principal objective of the research and development community is to stimulate research that leads to the creation of responsive environments for networking and, in the longer-term, the development of adaptive, secure, mobile, and intuitive intelligent systems for collaborative work and learning.

Groupware Project Management Institute

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.

Proceedings of the 21st International Symposium on Advancement of Construction Management and Real Estate Springer

Collaborative Networked Organizations represent one of the most relevant organizational paradigms in industry and services. A large number of developments in recent years have turned Collaborative Networks into a pervasive phenomenon in all socio-economic sectors. The main aim of this book is to provide a comprehensive set of reference materials derived from the results of the ECOLEAD project in one organized volume. The ECOLEAD project, a large 4-year European initiative, involved 28 organizations (from academia, research and industry), from 14 countries (in Europe and Latin America). Three main types of results from ECOLEAD are presented: (i) Conceptual frameworks and models, (ii) Methods and processes, and (iii) Software tools and systems. Furthermore, the experience and lessons learned with a number of large pilot implementations in real-world running networks of enterprises are also included as an indication of the assessment/validation of the project results. Methods and Tools for Collaborative

Networked Organizations provides valuable elements for researchers and practitioners involved in the design, implementation, and management of collaborative forms in industry and services.

Annual Report on the Big Data of New Energy Vehicle in China (2022) Springer Nature

"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.

AGILE NETWORK BUSINESSES

Springer

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.

BIG IDEAS IN COLLABORATIVE PUBLIC MANAGEMENT

Springer

Degradation of the nation's water resources threatens the health of humans and the functioning of natural ecosystems. To help better understand the causes of these adverse impacts and how they might be more effectively mitigated, especially in urban and human-stressed aquatic systems, the National Science Foundation (NSF) has proposed the establishment of a Collaborative Large-scale Engineering Analysis Network for Environmental Research (CLEANER). This program would provide a platform for near-real-time and conventional data collection and analysis; improve understanding and prediction of processes controlling large-scale environmental and hydrologic systems; help explain human-induced impacts on the environment; and help identify more effective adaptive management approaches to mitigate adverse impacts of human activities on water and land resources. At NSF's request, the National Academies undertook a review of this proposed program. The resultant report recommends that NSF proceed with its planning, implementation, and intra- and interagency coordination activities for the program, as a successful environmental observatory network could transform the environmental engineering profession and increase its already considerable contributions to society.

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