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Green Finance and Investment Promoting Clean Urban Public Transportation and Green Investment in Kyrgyzstan - OECD 2019-10-12
This report discusses the main results of a project on how an influx of funds could spur development of cleaner public transport, and reduce air pollution and greenhouse gas (GHG) emissions in large urban centres in Kyrgyzstan, by providing an analysis for designing a green public investment programme in this sector.

Automating with SIMATIC S7-1500 - Hans Berger 2014-07-07
With many innovations, the SIMATIC S7-1500 programmable logic controller (PLC) sets new standards in productivity and efficiency in control technology. By its outstanding system performance and with PROFINET as the standard interface, it ensures extremely short system response times and the highest control quality with a maximum of flexibility for most demanding automation tasks. The engineering software STEP 7 Professional operates inside TIA Portal, a user interface that is designed for intuitive operation. Functionality includes all aspects of Automation: from the configuration of the controllers via the programming in the IEC languages ¿¿LAD, FBD, STL, and SCL up to the program test. In the book, the hardware components of the automation system S7-1500 are presented including the description of their configuration and parameterization. A comprehensive introduction into STEP 7 Professional illustrates the basics of programming and troubleshooting. Beginners learn the basics of automation with Simatic S7-1500 and users who will switch from S7-300

and S7-400 receive the necessary knowledge.
Electronic Government - Marijn Janssen 2022-08-30
Chapters 6, 24, 26 and 36 are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.
Self-Organization in Embedded Real-Time Systems - M. Teresa Higuera-Toledano 2012-11-09
This book describes the emerging field of self-organizing, multicore, distributed and real-time embedded systems. Self -organization of both hardware and software can be a key technique to handle the growing complexity of modern computing systems. Distributed systems running hundreds of tasks on dozens of processors, each equipped with multiple cores, requires self-organization principles to ensure efficient and reliable operation. This book addresses various, so-called Self-X features such as self-configuration, self-optimization, self-adaptation, self-healing and self-protection.
How to Manage Project Stakeholders - Pascal Bohulu Mabelo 2020-04-16
This book outlines how to identify stakeholders, analyse theirs stakes, and plan and implement an engagement strategy to secure relevant input and dependable buy-in to assure the successful delivery of Large Infrastructure Projects. It also addresses common stakeholder management "inadequacies" and is supplemented with four extended practical exercises to help readers apply the principles to their own large, complex projects and ensure project success. The project management industry, particularly the Large Infrastructure Projects domain, has only recently awakened to the reality that failed Stakeholder

Management probably leads to a failure of the project altogether. Due to the complexities involved, most traditional approaches to managing stakeholders have developed serious difficulties in dealing with large and complex projects. This book presents a Systems Thinking approach to managing stakeholders that accommodates these complexities and seeks to crystallise the notion that "managing projects means managing stakeholders", while also introducing an ethical perspective (i.e., stakeholders have legitimate rights regardless of their power to influence the project). This shifts the paradigm from "Management of Stakeholders" to "Management for Stakeholders". It is essential reading for all those involved with managing large projects including project managers, sponsors, and executives. It will also be useful for advanced students of project management and systems engineering looking to understand and expand their knowledge of infrastructure projects and Systems Engineering.

Informatics and Cybernetics in Intelligent Systems - Radek Silhavy
This book constitutes the refereed proceedings of the informatics and cybernetics in intelligent systems section of the 10th Computer Science Online Conference 2021 (CSOC 2021), held online in April 2021. Modern cybernetics and computer engineering papers in the scope of intelligent systems are an essential part of actual research topics. In this book, a discussion of modern algorithms approaches techniques is held.

Advances in Security, Networks, and Internet of Things - Kevin Daimi 2021-07-10
The book presents the proceedings of four conferences: The 19th International Conference on Security & Management (SAM'20), The 19th International Conference on Wireless Networks (ICWN'20), The 21st International Conference on Internet Computing & Internet of Things (ICOMP'20), and The 18th International Conference on Embedded Systems, Cyber-physical Systems (ESCS'20). The conferences took place in Las Vegas, NV, USA, July 27-30, 2020. The conferences are part of the larger 2020 World Congress in Computer Science, Computer Engineering, & Applied Computing (CSCE'20), which features 20 major tracks.

Authors include academics, researchers, professionals, and students. Presents the proceedings of four conferences as part of the 2020 World Congress in Computer Science, Computer Engineering, & Applied Computing (CSCE'20); Includes the tracks on security & management, wireless networks, internet computing and IoT, and embedded systems as well as cyber-physical systems; Features papers from SAM'20, ICWN'20, ICOMP'20 and ESCS'20.

Application of Smart Grid Technologies - Lisa Lamont 2018-05-29
Application of Smart Grid Technologies: Case Studies in Saving Electricity in Different Parts of the World provides a wide international view of smart grid technologies and their implementation in all regions of the globe. A brief overview of smart grid concepts and state-of-the art technologies is followed by sections that highlight smart grid experiences in Asia, Africa, North America, South America, Europe and Australasia. Chapters address select countries or sub-regions, presenting their local technological needs and specificities, status of smart grid implementation, technologies of choice, impacts on their electricity markets, and future trends. Similar chapter makes it easier to compare these experiences. In a time when the smart grid is becoming a worldwide reality, this book is ideal for professionals in power transmission and distribution companies, as well as students and researchers in the same field. It is also useful for those involved in energy management and policymaking. Presents the status and challenges of smart grid technologies and their implementation around the globe Includes global case studies written by local experts and organized for easy comparison Provides a brief overview of smart grid concepts and currently available technologies

Management of IOT Open Data Projects in Smart Cities - Cezary Orlowski 2020-09-24
Management of IoT Open Data Projects in Smart Cities demonstrates a key project management methodology for the implementation of Smart Cities projects: Principles and Regulations for Smart Cities (PaRSC). This methodology adopts a basis in classic Scrum soft management methods with carefully considered expansions. These include design principals for high-level

architecture design and recommendations for design at the level of project teams. This approach enables the deployment of rule-based linguistic models for IoT project management, supporting the design of high-level architecture and providing rules for Scrum Smart Cities team. After reading this book, the reader will have a thorough grounding in IoT nodes and methods of their design, the acquisition and use of open data, and the use of project management methods to collect open data and build business models based on them. Presents a unified method for smart urban interventions based on the adjustment of Scrum to the complexity of smart city projects Establishes a key model for intelligent systems verification in Smart Cities projects Demonstrates how practitioners can gain from the adoption of rule-based linguistic models

Case Studies in System of Systems, Enterprise Systems, and Complex Systems Engineering - Alex Gorod 2014-07-01
Suitable as a reference for industry practitioners and as a textbook for classroom use, Case Studies in System of Systems, Enterprise Systems, and Complex Systems Engineering provides a clear understanding of the principles and practice of system of systems engineering (SoSE), enterprise systems engineering (ESE), and complex systems engineering (CSE). Multiple domain practitioners present and analyze case studies from a range of applications that demonstrate underlying principles and best practices of transdisciplinary systems engineering. A number of the case studies focus on addressing real human needs. Diverse approaches such as use of soft systems skills are illustrated, and other helpful techniques are also provided. The case studies describe, examine, analyze, and assess applications across a range of domains, including: Engineering management and systems engineering education Information technology business transformation and infrastructure engineering Cooperative framework for and cost management in the construction industry Supply chain modeling and decision analysis in distribution centers and logistics International development assistance in a foreign culture of education Value analysis in generating electrical energy through wind power Systemic risk and reliability assessment

in banking Assessing emergencies and reducing errors in hospitals and health care systems Information fusion and operational resilience in disaster response systems Strategy and investment for capability developments in defense acquisition Layered, flexible, and decentralized enterprise architectures in military systems Enterprise transformation of the air traffic management and transport network Supplying you with a better understanding of SoSE, ESE, and CSE concepts and principles, the book highlights best practices and lessons learned as benchmarks that are applicable to other cases. If adopted correctly, the approaches outlined can facilitate significant progress in human affairs. The study of complex systems is still in its infancy, and it is likely to evolve for decades to come. While this book does not provide all the answers, it does establish a platform, through which analysis and knowledge application can take place and conclusions can be made in order to educate the next generation of systems engineers.

AVL Systems for Bus Transit - Doug J. Parker 2008
"TRB's Transit Cooperative Research Program (TCRP) Synthesis 73: AVL Systems for Bus Transit: Update explores the uses of computer-aided dispatch/automatic vehicle location (CAD/AVL) systems in fixed-route and demand-responsive services (bus AVL), as well as changes in agency practices related to the use of AVL systems."--Publisher's website.

Proceedings of the International Conference on Systems, Science, Control, Communication, Engineering and Technology 2015 - Kokula Krishna Hari K 2015-08-10
ICSSCCET 2015 will be the most comprehensive conference focused on the various aspects of advances in Systems, Science, Management, Medical Sciences, Communication, Engineering, Technology, Interdisciplinary Research Theory and Technology. This Conference provides a chance for academic and industry professionals to discuss recent progress in the area of Interdisciplinary Research Theory and Technology. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject. The

goal of this conference is to bring together the researchers from academia and industry as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of Interdisciplinary Research Theory and Technology.

Beiträge Zur 15. Internationalen Konferenz Zu Stadtplanung, Regionalentwicklung und Informationsgesellschaft - Manfred Schrenk 2010

Context-Aware Systems and Applications - Phan Cong Vinh 2016-04-16
This book constitutes the thoroughly refereed proceedings of the 4th International Conference on Context-Aware Systems and Applications, ICCASA 2015, held in Vung Tau, Vietnam, in November 2015. The 44 revised full papers presented were carefully selected and reviewed from over 100 submissions. The papers cover a wide spectrum of issues in the area of context-aware systems (CAS) and context-based recommendation systems. CAS is characterized by its self- facets such as self-organization, self-configuration, self-healing, self-optimization, self-protection and so on whose context awareness used to dynamically control computing and networking functions. The overall goal of CAS is to realize nature-inspired autonomic systems that can manage themselves without direct human interventions.

Real-time Bus Arrival Information Systems - Carol L. Schweiger 2003
The synthesis describes the state of the practice in real-time bus arrival informations systems, including both U.S. and international experience. The panel for this project chose to focus on bus systems, rather than all transit modes, and on the following six elements of these systems: bus system characteristics; real-time bus arrival information system characteristics, including information about the underlying technology and dissemination media; system prediction, accuracy, and reliability; system costs; customer and media reactions; and institutional and organizational issues associated with the system.

South Boston Piers/Fort Point Channel Transit Project - 1993

Biometrics in a Data Driven World - Sinjini

Mitra 2016-12-01
Biometrics in a Data Driven World: Trends, Technologies, and Challenges aims to inform readers about the modern applications of biometrics in the context of a data-driven society, to familiarize them with the rich history of biometrics, and to provide them with a glimpse into the future of biometrics. The first section of the book discusses the fundamentals of biometrics and provides an overview of common biometric modalities, namely face, fingerprints, iris, and voice. It also discusses the history of the field, and provides an overview of emerging trends and opportunities. The second section of the book introduces readers to a wide range of biometric applications. The next part of the book is dedicated to the discussion of case studies of biometric modalities currently used on mobile applications. As smartphones and tablet computers are rapidly becoming the dominant consumer computer platforms, biometrics-based authentication is emerging as an integral part of protecting mobile devices against unauthorized access, while enabling new and highly popular applications, such as secure online payment authorization. The book concludes with a discussion of future trends and opportunities in the field of biometrics, which will pave the way for advancing research in the area of biometrics, and for the deployment of biometric technologies in real-world applications. The book is designed for individuals interested in exploring the contemporary applications of biometrics, from students to researchers and practitioners working in this field. Both undergraduate and graduate students enrolled in college-level security courses will also find this book to be an especially useful companion.

Proceedings of the 1st International Conference on Electronics, Biomedical Engineering, and Health Informatics - Triwiyanto 2021-04-16
This Conference proceeding presents high-quality peer-reviewed papers from the International Conference on Electronics, Biomedical Engineering, and Health Informatics (ICEBEHI) 2020 held at Surabaya, Indonesia. The contents are broadly divided into three parts: (i) Electronics, (ii) Biomedical Engineering, and (iii) Health Informatics. The major focus is on emerging technologies and

their applications in the domain of biomedical engineering. It includes papers based on original theoretical, practical, and experimental simulations, development, applications, measurements, and testing. Featuring the latest advances in the field of biomedical engineering applications, this book serves as a definitive reference resource for researchers, professors, and practitioners interested in exploring advanced techniques in the field of electronics, biomedical engineering, and health informatics. The applications and solutions discussed here provide excellent reference material for future product development.

India Infrastructure Report, 2007 - 3iNetwork (India) 2007
The India Infrastructure Report 2007 has rural infrastructure as its theme. It provides the broad context, highlights key issues, and focuses on major sub-sectors such as power, water, sewage, and irrigation in rural infrastructure.

Modelling Intelligent Multi-Modal Transit Systems - Agostino Nuzzolo 2017-02-17
The growing mobility needs of travellers have led to the development of increasingly complex and integrated multi-modal transit networks. Hence, transport agencies and transit operators are now more urgently required to assist in the challenging task of effectively and efficiently planning, managing, and governing transit networks. A pre-condition for the development of an effective intelligent multi-modal transit system is the integration of information and communication technology (ICT) tools that will support the needs of transit operators and travellers. To achieve this, reliable real-time simulation and short-term forecasting of passenger demand and service network conditions are required to provide both real-time traveller information and successfully synchronise transit service planning and operations control. Modelling Intelligent Multi-Modal Transit Systems introduces the current trends in this newly emerging area. Recent developments in information technology and telematics have enabled a large amount of data to become available, thus further attracting transport researchers to set up new models outside the context of the traditional data-driven approach. The alternative demand-supply interaction or network assignment modelling

approach has improved greatly in recent years and has a crucial role to play in this new context. *Central Phoenix/East Valley Corridor* - 2001

Fiber Optics Illustrated Dictionary - J.K. Petersen 2002-12-26
Within a few short years, fiber optics has skyrocketed from an interesting laboratory experiment to a billion-dollar industry. But with such meteoric growth and recent, exciting advances, even references published less than five years ago are already out of date. The Fiber Optics Illustrated Dictionary fills a gap in the literature by providing instructors, hobbyists, and top-level engineers with an accessible, current reference. From the author of the best-selling Telecommunications Illustrated Dictionary, this comprehensive reference includes fundamental physics, basic technical information for fiber splicing, installation, maintenance, and repair, and follow-up information for communications and other professionals using fiber optic components. Well-balanced, well-researched, and extensively cross-referenced, it also includes hundreds of photographs, charts, and diagrams that clarify the more complex ideas and put simpler ideas into their applications context. Fiber optics is a vibrant field, not just in terms of its growth and increasing sophistication, but also in terms of the people, places, and details that make up this challenging and rewarding industry. In addition to furnishing an authoritative, up-to-date resource for relevant industry definitions, this dictionary introduces many exciting recent applications as well as hinting at emerging future technologies.

Cases on Educational Technology Planning, Design, and Implementation: A Project Management Perspective - Benson, Angela D. 2013-06-30
Whether utilizing electronic tools for K-12 classrooms, learning management systems in higher education institutions, or training and performance improvement for business organizations, technology maintains an important aspect in the delivery of education and training in both school and non-school settings. Cases on Educational Technology Planning, Design, and Implementation: A Project Management Perspective provides strategies for

addressing the challenges and pitfalls faced when planning, designing, and implementing learning and educational technology projects. The case studies in this publication aim to provide instructors, practitioners in K-12 and higher education, business managers as well as students interested in implementing education technology projects.

Design Education - Philippa Lyon 2016-04-15 Embracing the richness, complexity and possibilities of learning and teaching in design, Design Education takes the vantage point of the 'outsider' and explores what makes design so compulsively fascinating for those who teach and study it. Through more than 40 projects, from design students' use of archives and museum collections to the potential of specific technologies to enhance teaching and learning, from architecture and 3D design to fashion, Philippa Lyon explores aspects of learning and teaching in higher education design subjects. Taking an ethnographic approach and using data from interviews, discussions and observations, the book also examines issues such as the experience of design teacher-practitioners entering the world of learning and teaching research for the first time. Design Education encapsulates and analyzes the research findings facilitated by the UK-based Centre for Excellence in Teaching and Learning Through Design. It delves into many pedagogical terms and assumptions and guides the reader through them, examining the way relevant key concepts in design are articulated. It will be useful to teachers and students of design subjects, learning and interpretation staff in museums, pedagogical researchers, other centres for excellence in teaching and learning (particularly those which are art and design-related), independent design practitioners and managers of art and design provision in the public and private sector.

Computer Systems and Software Engineering: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2017-12-01 Professionals in the interdisciplinary field of computer science focus on the design, operation, and maintenance of computational systems and software. Methodologies and tools of engineering are utilized alongside computer applications to develop efficient and precise information databases. Computer Systems and Software Engineering: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on trends, techniques, and uses of various technology applications and examines the benefits and challenges of these computational developments. Highlighting a range of pertinent topics such as utility computing, computer security, and information systems applications, this multi-volume book is ideally designed for academicians, researchers, students, web designers, software developers, and practitioners interested in computer systems and software engineering.

Fundamentals of Relational Database Management Systems - S. Sumathi 2007-02-13 This book provides comprehensive coverage of fundamentals of database management system. It contains a detailed description on Relational Database Management System Concepts. There are a variety of solved examples and review questions with solutions. This book is for those who require a better understanding of relational data modeling, its purpose, its nature, and the standards used in creating relational data model.

Travel Matters - Transit Cooperative Research Program 2003 The report and the TravelMatters website (developed as part of this project) are designed to present information on climate change and to examine how greenhouse gas emissions from transportation may be reduced. Both the print and web-based research products review the capacity of public transportation to mitigate greenhouse gas emissions and present this information in a format accessible to transportation professionals and the general public. Key strategies for reducing transportation emissions--increasing the use of transit, changing land-use patterns, and adopting energy-efficient technologies and fuels in transit fleets--are discussed.

Database and Expert Systems Applications - Dimitris Karagiannis 2013-11-11 The Database and Expert Systems Applications - DEXA - conferences are dedi cated to providing an international forum for the presentation of applications in the database and expert systems field, for the exchange of ideas and experiences,

and for defining requirements for the future systems in these fields. After the very promising DEXA 90 in Vienna, Austria, we hope to have successfully established wjth this year's DEXA 91 a stage where scientists from diverse fields interested in application-oriented research can present and discuss their work. This year there was a total of more than 250 submitted papers from 28 different countries, in all continents. Only 98 of the papers could be accepted. The collection of papers in these proceedings offers a cross-section of the issues facing the area of databases and expert systems, i.e., topics of basic research interest on one hand and questions occurring when developing applications on the other. Major credit for the success of the conference goes to all of our colleagues who submitted papers for consideration and to those who have organized and chaired the panel sessions. Many persons contributed numerous hours to organize this conference. The names of most of them will appear on the following pages. In particular we wish to thank the Organization Committee Chairmen Johann Gordesch, A Min Tjoa, and Roland Wag ner, who also helped establishing the program. Special thanks also go to Gabriella Wagner and Anke Ruckert. Dimitris Karagiannis General Conference Chairman Contents Conference Committee.

Moving the Masses: Bus-Rapid Transit (BRT) Policies in Low Income Asian Cities - Suryani Eka Wijaya 2019-02-25
Public transport in low-income Asian (LIA) cities fails to meet people's mobility needs, generates high greenhouse gas (GHG) emissions and worsens social exclusion. Following successful Bus Rapid Transit (BRT) projects in Bogota and Curitibá, LIA countries promoted BRT in their large to medium-sized cities. However, the political and institutional structure distinctive to LIA cities makes their implementation difficult. This book investigates policy tensions by examining the planning and attempted implementation of BRT projects, taking Bandung and Surabaya in Indonesia as case studies. It analyses BRT to understand how power and communication gaps in institutional relationships between different actors at multiple levels of governance create conflict, and concludes that top-down policies and

funding mechanisms cause tension in intergovernmental relationships. It also found that BRT solutions generated socio-political tension arising from the socio-economic realities and local political dynamics that shaped city structure, mobility patterns and capacity in resolving conflicts. The superimposed BRT solution generated discursive tension because conflicting discourses were not aligned with local economic, social, and environmental issues. The book highlights the need to take into consideration the vital role of local social and political actors, institutions and planning processes as they respond to and shape policies that are imposed by higher levels.
Design Fires in Road Tunnels - Igor Y. Maevski 2011
TRB's National Cooperative Highway Research Program (NCHRP) 415: Design Fires in Road Tunnels information on the state of the practice of design fires in road tunnels, focusing on tunnel fire dynamics and the means of fire management for design guidance.
Understanding and Applying Advanced On-board Bus Electronics - John J. Schiavone 1999
The report provides an overview of electronics and its application to buses and other transportation sectors. The report then addresses electronic integration, potential benefits offered by integration, and transit agency experiences with the technology. The report concludes with guidelines for implementing transit bus electronics. It is intended to be a primer on the subject, providing essential background information to serve as a starting point for acquiring additional knowledge.
eWork and eBusiness in Architecture, Engineering and Construction. ECPPM 2006 - Manuel Martinez 2006-08-24
The task of structuring information on built environment has presented challenges to the research community, software developers and the industry for the last 20 years. Recent work has taken advantage of Web and industry standards such as XML, OWL, IFC and STEP. Another important technology for the fragmented AEC industry is digital communication. Wired or wireless, it brings together architects, engineers and construction site workers, enabling them to exchange

information, communicate and work together. Virtual enterprise organization structures, involving mobile teams over distance, are highly compatible with the needs of the construction industry.

Artificial Intelligence and Online Engineering - Michael E. Auer 2022
Nowadays, online technologies are the core of most fields of engineering and the whole society and are inseparable connected for example with Internet of Things & Industrial Internet of Things (Industry 4.0), Online & Biomedical Engineering, Data Science, Machine Learning, and Artificial Intelligence, Cross & Mixed Reality, and Remote Working Environments. to name only a few. Since the first REV conference in 2004, we tried to focus on the upcoming use of the Internet for engineering tasks and the opportunities as well as challenges around it. Consequently, the motto of this year's REV2022 was "Artificial Intelligence and Online Engineering". In a globally connected world, the interest in online collaboration, teleworking, remote services, and other digital working environments is rapidly increasing. In response to that, the general objective of this conference is to contribute and discuss fundamentals, applications, and experiences in the field of Online and Remote Engineering, Virtual Instrumentation and other related new technologies like Cross Reality, Data Science & Big Data, Internet of Things & Industrial Internet of Things, Industry 4.0, Cyber-Security, and M2M & Smart Objects. Another objective of the conference is to discuss guidelines and new concepts for engineering education in higher and vocational education institutions, including emerging technologies in learning, MOOCs & MOOLs, and Open Resources. REV2022 was the 19th in a series of annual events concerning the area of Online Engineering. It has been organized in cooperation with The British University in Egypt (BUE), Cairo, as a hybrid event from February 28 until March 02, 2022.

Sustainable Smart Cities - Marta Peris-Ortiz 2016-10-05
This volume provides the most current research on smart cities. Specifically, it focuses on the economic development and sustainability of smart cities and examines how to transform older industrial cities into sustainable smart cities. It aims to identify the role of the following elements in the creation and management of smart cities:• Citizen participation and empowerment • Value creation mechanisms • Public administration• Quality of life and sustainability• Democracy• ICT• Private initiatives and entrepreneurship Regardless of their size, all cities are ultimately agglomerations of people and institutions. Agglomeration economies make it possible to attain minimum efficiencies of scale in the organization and delivery of services. However, the economic benefits do not constitute the main advantage of a city. A city's status rests on three dimensions: (1) political impetus, which is the result of citizens' participation and the public administration's agenda; (2) applications derived from technological advances (especially in ICT); and (3) cooperation between public and private initiatives in business development and entrepreneurship. These three dimensions determine which resources are necessary to create smart cities. But a smart city, ideal in the way it channels and resolves technological, social and economic-growth issues, requires many additional elements to function at a high-performance level, such as culture (an environment that empowers and engages citizens) and physical infrastructure designed to foster competition and collaboration, encourage new ideas and actions, and set the stage for new business creation. Featuring contributions with models, tools and cases from around the world, this book will be a valuable resource for researchers, students, academics, professionals and policymakers interested in smart cities.

Knowledge Management, Innovation and Big Data - Patricia Ordóñez de Pablos 2019-12-31
The evolution of knowledge management theory and the special emphasis on human and social capital sets new challenges for knowledge-driven and technology-enabled innovation. Emerging technologies including big data and analytics have significant implications for sustainability, policy making, and competitiveness. This edited volume promotes scientific research into the potential contributions knowledge management can make to the new era of innovation and social inclusive economic growth. We are grateful to all the contributors of this edition for their intellectual

work. The organization of the relevant debate is aligned around three pillars: SECTION A. DATA, KNOWLEDGE, HUMAN AND SOCIAL CAPITAL FOR INNOVATION We elaborate on the new era of knowledge types and the emerging forms of social capital and their impact on technology-driven innovation. Topics include: · Social Networks · Smart Education · Social Capital · Corporate Innovation · Disruptive Innovation · Knowledge integration · Enhanced Decision-Making. SECTION B. KNOWLEDGE MANAGEMENT & BIG DATA ENABLED INNOVATION In this section, knowledge management and big data applications and systems are presented. Selective topic include: · Crowdsourcing Analysis · Natural Language Processing · Data Governance · Knowledge Extraction · Ontology Design Semantic Modeling SECTION C. SUSTAINABLE DEVELOPMENT In the section, the debate on the impact of knowledge management and big data research to sustainability is promoted with integrative discussion of complementary social and technological factors including: · Big Social Networks on Sustainable Economic Development · Business Intelligence

e-Learning, e-Education, and Online Training - Shuai Liu 2020-12-11
This 2-volume set constitutes the proceedings of the 6th International Conference on e-Learning, e-Education, and Online Training, eLEOT 2020, held in Changsha, China, in June 2020. The conference was held virtually due to the COVID-19 pandemic. The 68 full papers presented were carefully reviewed and selected from 141 submissions. They focus on most recent and innovative trends and new technologies in for educational modernization, such as artificial intelligence and big data. The theme of eLEOT 2020 was "Education with New Generation Information Technology".

Use of Voltage Stability Assessment and Transient Stability Assessment Tools in Grid Operations - Sarma (NDR) Nuthalapati 2021-05-28
This book brings together real-world accounts of using voltage stability assessment (VSA) and transient stability assessment (TSA) tools for grid management. Chapters are written by leading experts in the field who have used these tools to manage their grids and can provide

readers with a unique and international perspective. Case studies and success stories are presented by those who have used these tools in the field, making this book a useful reference for different utilities worldwide that are looking into implementing these tools, as well as students and practicing engineers who are interested in learning the real-time applications of VSA and TSA for grid operation.

Intelligent Control in Energy Systems - Anastasios Dounis 2019-08-26
The editors of this Special Issue titled "Intelligent Control in Energy Systems" have attempted to create a book containing original technical articles addressing various elements of intelligent control in energy systems. In response to our call for papers, we received 60 submissions. Of those submissions, 27 were published and 33 were rejected. In this book, we offer the 27 accepted technical articles as well as one editorial. Authors from 15 countries (China, Netherlands, Spain, Tunisia, United Sates of America, Korea, Brazil, Egypt, Denmark, Indonesia, Oman, Canada, Algeria, Mexico, and the Czech Republic) elaborate on several aspects of intelligent control in energy systems. The book covers a broad range of topics including fuzzy PID in automotive fuel cell and MPPT tracking, neural networks for fuel cell control and dynamic optimization of energy management, adaptive control on power systems, hierarchical Petri Nets in microgrid management, model predictive control for electric vehicle battery and frequency regulation in HVAC systems, deep learning for power consumption forecasting, decision trees for wind systems, risk analysis for demand side management, finite state automata for HVAC control, robust µ-synthesis for microgrids, and neuro-fuzzy systems in energy storage.

Automating with SIMATIC - Hans Berger 2012-10-10
Totally Integrated Automation is the concept by means of which SIMATIC controls machines, manufacturing systems and technical processes. Taking the example of the SIMATIC S7 programmable controller, this book provides a comprehensive introduction to the architecture and operation of a state-of-the-art automation system. It also gives an insight into configuration and parameter setting for the controller and the

distributed I/O. Communication via network connections is explained, along with a description of the available scope for operator control and monitoring of a plant. The new engineering framework TIA Portal combines all the automation software tools in a single development environment. Inside the TIA Portal, SIMATIC STEP 7 Professional V11 is the comprehensive engineering package for SIMATIC controllers. As the central engineering tool, STEP 7 manages all the necessary tasks, supports programming in the IEC languages LAD, FBD, STL, S7-SCL and S7-GRAPH, and also contains S7-PLCSIM for offline tests. As well as updating the previously-depicted components, this edition also presents new SIMATIC S7-1200 hardware components for PROFIBUS and PROFINET. In addition to the STEP 7 V5.5 engineering software, now STEP 7 Professional V11 is also described, complete with its applications inside TIA Portal. The book is ideally suited to all those, who, despite little previous knowledge, wish to familiarize themselves with the topic of programmable logic controllers and the architecture and operation of automation systems.

Catalog of Federal Domestic Assistance - 2009

Identifies and describes specific government assistance opportunities such as loans, grants, counseling, and procurement contracts available under many agencies and programs.