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Handbook of System Safety and Security Edward Griffor 2016-10-02 Handbook of System Safety and Security: Cyber Risk and Risk Management, Cyber Security, Adversary Modeling, Threat Analysis, Business of Safety, Functional Safety, Software Systems, and Cyber Physical Systems presents an update on the world's increasing adoption of computer-enabled products and the essential services they provide to our daily lives. The tailoring of these products and services to our personal preferences is expected and made possible by intelligence that is enabled by communication between them. Ensuring that the systems of these connected products operate safely, without creating hazards to us and those around us, is the focus of this book, which presents the central topics of current research and practice in systems safety and security as it relates to applications within transportation, energy, and the medical sciences. Each chapter is authored by one of the leading contributors to the current research and development on the topic. The perspective of this book is unique, as it takes the two topics, systems safety and systems security, as inextricably intertwined. Each is driven by concern about the hazards associated with a system's performance. Presents the most current and leading edge research on system safety and security, featuring a panel of top experts in the field Includes several research advancements published for the first time, including the use of 'goal structured notation' together with a 'judgment calculus' and their automation as a 'rule set' to facilitate systems safety and systems security process execution in compliance with existing standards Presents for the first time the latest research in the field with the unique perspective that systems safety and systems security are inextricably intertwined Includes coverage of systems architecture, cyber physical systems, tradeoffs between safety, security, and performance, as well as the current methodologies and technologies and implantation practices for system safety and security

Computational Intelligence and Intelligent Systems Kangshun Li 2016-01-18 This book constitutes the refereed proceedings of the 7th International Symposium on Intelligence Computation and Applications, ISICA 2015, held in Guangzhou, China, in November 2015. The 77 revised full papers presented were carefully reviewed and selected from 189 submissions. The papers feature the most up-to-date research in analysis and theory of evolutionary computation, neural network architectures and learning; neuro-dynamics and neuro-engineering; fuzzy logic and control; collective intelligence and hybrid systems; deep learning; knowledge discovery; learning and reasoning.

Risk Thinking for Cloud-Based Application Services Eric Bauer 2017-04-07 Many enterprises are moving their applications and IT services to the cloud. Better risk management results in fewer operational surprises and failures, greater stakeholder confidence and reduced regulatory concerns; proactive risk management maximizes the likelihood that an enterprise's objectives will be achieved, thereby enabling organizational success. This work methodically considers the risks and opportunities that an enterprise taking their applications or services onto the cloud must consider to obtain the cost reductions and service velocity improvements they desire without suffering the consequences of unacceptable user service quality.

Total Facility Management Brian Atkin 2021-04-06 TOTAL FACILITY MANAGEMENT A comprehensive review of what facility management means to owners, operators, occupiers, facility managers and professional advisors The newly revised Fifth Edition of Total Facility Management is an accessible and practical text that shows readers how the concept and principles of facility management can be implemented in practice. The book deals with the most common and intractable challenges facing professionals, academics and students in the field and provides practical solutions with the means to implement them. The new edition includes a greater focus on applicable ISO standards in facility management as well as maintaining an international perspective throughout. The book contains easy-to-access advice on how facilities can be better managed from a range of perspectives, and the subjects covered provide a comprehensive treatment of facility management. Readers will benefit from the inclusion of: A thorough introduction to the fundamentals of facility management, including key roles, responsibilities and accountabilities and the core competencies of facility management An exploration of facility planning, facility management strategy, outsourcing, procurement, facility management organization, facility maintenance management and business continuity and recovery planning An examination of human resources management, well-being, workplace productivity, performance management health, safety, security and the environment A review of sustainable practices, change management, facility management systems, information management (including building information models and digital twins) and innovative technology. The book is the perfect choice for undergraduate and graduate studies in facility management, construction management, project management, surveying and other AEC disciplines. Total Facility Management will also earn a place on the desk of practicing facility managers, as well as in the libraries of academics and researchers whose work requires them to understand the theory and practice of facility management.

Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment Jean-Michel Bruel 2019-01-18 This book constitutes revised selected papers from the First International Workshop on Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment, DEVOPSS 2018, held at theateau de Villebrumier, France, in March 2018. The 17 papers presented in this volume were carefully reviewed and selected from 23 submissions. They cover a wide range of problems arising from Devops and related approaches, current tools, rapid development-deployment processes, effects on team performance, analytics, trustworthiness, microservices and related topics.

Critical Systems: Formal Methods and Automated Verification Maurice H. ter Beek 2016-09-12 This book constitutes the refereed proceedings of the Joint 21st International Workshop on Formal Methods for Industrial Critical Systems and the 16th International Workshop on Automated Verification of Critical Systems, FMICS-AVoCS 2016, held in Pisa, Italy, in September 2016.The 11 full papers and 4 short papers presented together with one invited talk were carefully reviewed and selected from 24 submissions. They are organized in the following sections: automated verification techniques; model-based system analysis; and applications and case studies.

Pennsylvania High-speed Maglev Project, the Pennsylvania Project of Magnetic Levitation, Transportation Technology Deployment Program 2010

Reauthorization of the Federal Water Pollution Control Act United States. Congress. House. Committee on Transportation and Infrastructure. Subcommittee on Water Resources and Environment 1996

Advances in Practical Applications of Agents, Multi-Agent Systems, and Social Good. The PAAMS Collection Frank Dignum 2021-09-24 This book constitutes the proceedings of the 19th International Conference on Practical Applications of Agents and Multi-Agent Systems, PAAMS 2021, held in Salamanca, Spain, in October 2021. The 27 regular and 13 short papers presented in this volume were carefully reviewed and selected from 56 submissions. They deal with the application and validation of agent-based models, methods, and technologies in a number of key applications areas, including: advanced models and learning, agent-based programming, decision-making, education and social interactions, formal and theoretic models, health and safety, mobility and the city, swarms and task allocation.

Software Processes and Life Cycle Models Ralf Kneuper 2018-08-24 This book provides a comprehensive overview of the field of software processes, covering in particular the following essential topics: software process modelling, software process and lifecycle models, software process management, deployment and governance, and software process improvement (including assessment and measurement). It does not propose any new processes or methods; rather, it introduces students and software engineers to software processes and life cycle models, covering the different types ranging from “classical”, plan-driven via hybrid to agile approaches. The book is structured as follows: In chapter 1, the fundamentals of the topic are introduced: the basic concepts, a historical overview, and the terminology used. Next, chapter 2 covers the various approaches to modelling software processes and lifecycle models, before chapter 3 discusses the contents of these models, addressing plan-driven, agile and hybrid approaches. The following three chapters address various aspects of using software processes and lifecycle models within organisations, and consider the management of these processes, their assessment and improvement, and the measurement of both software and software processes. Working with software processes normally involves various tools, which are the focus of chapter 7, before a look at current trends in software processes in chapter 8 rounds out the book. This book is mainly intended for graduate students and practicing professionals. It can be used as a textbook for courses and lectures, for self-study, and as a reference guide. When used as a textbook, it may support courses and lectures on software processes, or be used as complementary literature for more basic courses, such as introductory courses on software engineering or project management. To this end, it includes a wealth of examples and case studies, and each chapter is complemented by exercises that help readers gain a better command of the concepts discussed.

Seamen's Missions Roald Kverndal 1986 This book will long stand as the foundational study of church missions and ministry to men and women of the sea. International in scope, it covers in detail the efforts, particularly during the past two centuries, to serve the spiritual and moral needs of seafarers. The author, himself a former seafarer and seafarers' chaplain, spent more than fifteen years of painstaking research to compile this fascinating and authoritative book.

FCC Record United States. Federal Communications Commission 1999

A Digest of the Decisions of the Courts of the Commonwealth of Pennsylvania from 1754 to 1907 Ruby Ross Vale 1917

Congressional Record Index 1998 Includes history of bills and resolutions.

Deering's California Codes California 1945

The Essentials of Modern Software Engineering Ivar Jacobson 2019-07-19 The first course in software engineering is the most critical. Education must start from an understanding of the heart of software development, from familiar ground that is common to all software development endeavors. This book is an in-depth introduction to software engineering that uses a systematic, universal kernel to teach the essential elements of all software engineering methods. This kernel, Essence, is a vocabulary for defining methods and practices. Essence was envisioned and originally created by Ivar Jacobson and his colleagues, developed by Software Engineering Method and Theory (SEMAT) and approved by The Object Management Group (OMG) as a standard in 2014. Essence is a practice-independent framework for thinking and reasoning about the practices we have and the practices we need. Essence establishes a shared and standard understanding of what is at the heart of software development. Essence is agnostic to any particular method, lifecycle independent, programming language independent, concise, scalable, extensible, and formally specified. Essence frees the practices from their method prisons. The first part of the book describes Essence, the essential elements to work with, the essential things to do and the essential competencies you need when developing software. The other three parts describe more and more advanced use cases of Essence. Using real but manageable examples, it covers the fundamentals of Essence and the innovative use of serious games to support software engineering. It also explains how current practices such as user stories, use cases, Scrum, and micro-services can be described using Essence, and illustrates how their activities can be represented using the Essence notions of cards and checklists. The fourth part of the book offers a vision how Essence can be scaled to support large, complex systems engineering. Essence is supported by an ecosystem developed and maintained by a community of experienced people worldwide. From this ecosystem, professors and students can select what they need and create their own way of working, thus learning how to create ONE way of working that matches the particular situation and needs.

U.S. General Services Administration's Capital Investment Program United States. Congress. House. Committee on Transportation and Infrastructure. Subcommittee on Public Buildings and Economic Development 1997

Software Configuration Management Handbook, Third Edition Alexis Leon 2015-02-01 Software configuration management (SCM) is one of the scientific tools that is aimed to bring control to the software development process. This new resource is a complete guide to implementing, operating, and maintaining a successful SCM system for software development. Project managers, system designers, and software developers are presented with not only the basics of SCM, but also the different phases in the software development lifecycle and how SCM plays a role in each phase. The factors that should be considered and the pitfalls that should be avoided while designing the SCM system and SCM plan are also discussed. In addition, this third edition is updated to include cloud computing and on-demand systems. This book does not rely on one specific tool or standard for explaining the SCM concepts and techniques; In fact, it gives readers enough information about SCM, the mechanics of SCM, and SCM implementation, so that they can successfully implement a SCM system.

Software Engineering for Variability Intensive Systems Ivan Mistrik 2019-01-15 This book addresses the challenges in the software engineering of variability-intensive systems. Variability-intensive systems can support different usage scenarios by accommodating different and unforeseen features and qualities. The book features academic

and industrial contributions that discuss the challenges in developing, maintaining and evolving systems, cloud and mobile services for variability-intensive software systems and the scalability requirements they imply. The book explores software engineering approaches that can efficiently deal with variability-intensive systems as well as applications and use cases benefiting from variability-intensive systems.

Lean Computing for the Cloud Eric Bauer 2016-03-01 Applies lean manufacturing principles across the cloud service delivery chain to enable application and infrastructure service providers to sustainably achieve the shortest lead time, best quality, and value Applies lean thinking across the cloud service delivery chain to recognize and minimize waste Leverages lessons learned from electric power industry operations to operations of cloud infrastructure Applies insights from just-in-time inventory management to operation of cloud based applications Explains how traditional, Information Technology Infrastructure Library (ITIL) and Enhanced Telecom Operation Map (eTOM) capacity management evolves to lean computing for the cloud

Rural Inequality in Divided Russia Stephen K Wegren 2013-07-24 This book examines economic and political polarisation in post-Soviet Russia, and in particular analyses the development of rural inequality. It discusses how rural inequality has developed in post-Soviet Russia, and how it differs from the Soviet period, and goes on to look at the factors that affect rural stratification and inequality, using human and social capital, profession, gender, and village location as independent variables. The book uses survey data from rural households and fieldwork in Russia in order to highlight the multiplicity of divisions that act as fault lines in contemporary rural Russia.

Socio-economic Systems: Paradigms for the Future Elena G. Popkova 2021-03-05 This book is reflective of a science-based vision of the future development paradigm of economic and social systems. It deals with the digitization as the technological basis for the future development of economic and social systems and presents a review of groundbreaking technologies and prospects for their application. The specific character of the industry and prospects for the application of digital technologies in business are analyzed. A rationale is provided for future prospects for the sustainable development of economic and social systems in a digital economy. The authors determine the process of the formation and development of the information-oriented society, social and educational aspects of the digitization, as well as the institutional framework of the digital future of social and economic systems. The book combines the best works following the results of the 12th International Research-to-Practice Conference “Artificial Intelligence: Anthropogenic Nature vs. Social Origin” that was held by the Institute of Scientific Communications (ISC) in cooperation with the Siberian Federal University and the Krasnoyarsk Regional Fund of support of scientific and scientific–technical activities on 5–7 December 2019, in Krasnoyarsk, Russia, as well as following the results of the 3rd International Research-to-Practice Conference “Economic and Social Systems: Paradigms for the Future” that was held by the ISC in cooperation with the Pyatigorsk State University on 5–6 February 2020. The target audience of the book consists of representatives of the academic community concerned with the future prospects for the development of economic and social systems, as well as economic agents engaged in the digitization of business processes, and representatives of public agencies regulating the development of business systems for their progressivity, sustainability and competitiveness.

Monthly Catalog of United States Government Publications 1995

Flexible Automation and Integrated Manufacturing 1993 M Ahmad 1993-09-21 Proceedings of the Flexible Automation and Integrated Manufacturing Conference held in Limerick, Ireland, in June 1993

SAS Data Analytic Development Troy Martin Hughes 2016-09-19 Design quality SAS software and evaluate SAS software quality SAS Data Analytic Development is the developer’s compendium for writing better-performing software and the manager’s guide to building comprehensive software performance requirements. The text introduces and parallels the International Organization for Standardization (ISO) software product quality model, demonstrating 15 performance requirements that represent dimensions of software quality, including: reliability, recoverability, robustness, execution efficiency (i.e., speed), efficiency, scalability, portability, security, automation, maintainability, modularity, readability, testability, stability, and reusability. The text is intended to be read cover-to-cover or used as a reference tool to instruct, inspire, deliver, and evaluate software quality. A common fault in many software development environments is a focus on functional requirements—the what and how—to the detriment of performance requirements, which specify instead how well software should function (assessed through software execution) or how easily software should be maintained (assessed through code inspection). Without the definition and communication of performance requirements, developers risk either building software that lacks intended quality or wasting time delivering software that exceeds performance objectives—thus, either underperforming or gold-plating, both of which are undesirable. Managers, customers, and other decision makers should also understand the dimensions of software quality both to define performance requirements at project outset as well as to evaluate whether those objectives were met at software completion. As data analytic software, SAS transforms data into information and ultimately knowledge and data-driven decisions. Not surprisingly, data quality is a central focus and theme of SAS literature; however, code quality is far less commonly described and too often references only the speed or efficiency with which software should execute, omitting other critical dimensions of software quality. SAS® software project definitions and technical requirements often fall victim to this paradox, in which rigorous quality requirements exist for data and data products yet not for the software that undergirds them. By demonstrating the cost and benefits of software quality inclusion and the risk of software quality exclusion, stakeholders learn to value, prioritize, implement, and evaluate dimensions of software quality within risk management and project management frameworks of the software development life cycle (SDLC). Thus, SAS Data Analytic Development recalibrates business value, placing code quality on par with data quality, and performance requirements on par with functional requirements.

Scientific and Technical Aerospace Reports 1991 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Systems, Software and Services Process Improvement Xabier Larrucea 2018-08-22 This volume constitutes the refereed proceedings of the 25th European Conference on Systems, Software and Services Process Improvement, EuroSPI conference, held in Bilbao, Spain, in September 2018. The 56 revised full papers presented were carefully reviewed and selected from 95 submissions. They are organized in topical sections on SPI context and agility, SPI and safety testing, SPI and management issues, SPI and assessment, SPI and safety critical, gamifySPI, SPI in industry 4.0, best practices in implementing traceability, good and bad practices in improvement, safety and security, experiences with agile and lean, standards and assessment models, team skills and diversity strategies, SPI in medical device industry, empowering the future infrastructure.

Congressional Record United States. Congress 1998 The Congressional Record is the official record of the proceedings and debates of the United States Congress. It is published daily when Congress is in session. The Congressional Record began publication in 1873. Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States (1789-1824), the Register of Debates in Congress (1824-1837), and the Congressional Globe (1833-1873)

Human Aspects of Information Security, Privacy, and Trust Theo Tryfonas 2015-07-20 This book constitutes the proceedings of the Third International Conference on Human Aspects of Information Security, Privacy, and Trust, HAS 2015, held as part of the 17th International Conference on Human-Computer Interaction, HCII 2015, held in Los Angeles, CA, USA, in August 2015 and received a total of 4843 submissions, of which 1462 papers and 246 posters were accepted for publication after a careful reviewing process. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers thoroughly cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The 62 papers presented in the HAS 2015 proceedings are organized in topical sections as follows: authentication, cybersecurity, privacy, security, and user behavior, security in social media and smart technologies, and security technologies.

System Engineering Analysis, Design, and Development Charles S. Wasson 2015-11-16 Praise for the first edition: “This excellent text will be useful to every system engineer (SE) regardless of the domain. It covers ALLrelevant SE material and does so in a very clear, methodicalfashion. The breadth and depth of the author’s presentation ofSE principles and practices is outstanding.” –Philip Allen This textbook presents a comprehensive, step-by-step guide toSystem Engineering analysis, design, and development via anintegrated set of concepts, principles, practices, andmethodologies. The methods presented in this text apply to any typeof human system -- small, medium, and large organizational systemsand system development projects delivering engineered systems overservices across multiple business sectors such as medical,transportation, financial, educational, governmental, aerospace anddefense, utilities, political, and charity, among others. Provides a common focal point for “bridgingthe gap” between and unifying System Users, System Acquirers,multi-discipline System Engineering, and Project, Functional, andExecutive Management education, knowledge, and decision-making fordeveloping systems, products, or services Each chapter provides definitions of key terms,guiding principles, examples, author’s notes, real-worldexamples, and exercises, which highlight and reinforce key SE&Dconcepts and practices Addresses concepts employed in Model-BasedSystems Engineering (MBSE), Model-Driven Design (MDD), UnifiedModeling Language (UMLTM) / Systems Modeling Language(SysMLTM), and Agile/Spiral/V-Model Development such asuser needs, stories, and use cases analysis; specificationdevelopment; system architecture development; User-Centric SystemDesign (UCSD); interface definition & control; systemintegration & test; and Verification & Validation (V&V) Highlights/introduces a new 21st Century SystemsEngineering & Development (SE&D) paradigm that is easy tounderstand and implement. Provides practices that are critical stagingpoints for technical decision making such as Technical StrategyDevelopment; Life Cycle requirements; Phases, Modes, & States;SE Process; Requirements Derivation; System ArchitectureDevelopment, User-Centric System Design (UCSD); EngineeringStandards, Coordinate Systems, and Conventions; et al. Thoroughly illustrated, with end-of-chapter exercises andnumerous case studies and examples, Systems EngineeringAnalysis, Design, and Development, Second Edition is a primarytextbook for multi-discipline, engineering, system analysis, andproject management undergraduate/graduate level students and available reference for professionals.

Software Process Improvement Rory O'Connor 2009-08-21 This textbook is intended for SPI (software process improvement) managers and - searchers, quality managers, and experienced project and research managers. The papers constitute the research proceedings of the 16th EuroSPI (European Software Process Improvement, www.eurospi.net) conference held in Alcala (Madrid region), September 2–4, 2009, Spain. Conferences have been held since 1994 in Dublin, 1995 in Vienna (Austria), 1997 in Budapest (Hungary), 1998 in Gothenburg (Sweden), 1999 in Pori (Finland), 2000 in Copenhagen (Denmark), 2001 in Limerick (Ireland), 2002 in Nuremberg (G- many), 2003 in Graz (Austria), 2004 in Trondheim (Norway), 2005 in Budapest (Hungary), 2006 in Joensuu (Finland), 2007 in Potsdam (Germany), 2008 in Dublin (Ireland), and 2009 in Alcala (Spain). EuroSPI established an experience library (library.eurospi.net) which will be conti- ouously extended over the next few years and will be made available to all attendees. EuroSPI also created an umbrella initiative for establishing a European Qualification Network in which different SPINs and national initiatives join mutually beneficial collaborations (EQCA – European Certification and Qualification Association, www.eqca.org). With a general assembly during October 15–16, 2007 through Euro-SPI partners and networks, in collaboration with the European Union (supported by the EU L- nardo da Vinci Programme) a European certification association has been created (www.eu-certificates.org, www.eqca.org) for the IT and services sector to offer SPI knowledge and certificates to industry, establishing close knowledge transfer links between research and industry.

Agile Processes in Software Engineering and Extreme Programming Peggy Gregory 2021-06-09 This open access book constitutes the proceedings of the 22nd International Conference on Agile Software Development, XP 2021, which was held virtually during June 14-18, 2021. XP is the premier agile software development conference combining research and practice. It is a unique forum where agile researchers, practitioners, thought leaders, coaches, and trainers get together to present and discuss their most recent innovations, research results, experiences, concerns, challenges, and trends. XP conferences provide an informal environment to learn and trigger discussions and welcome both people new to agile and seasoned agile practitioners. This year’s conference was held with the theme “Agile Turns Twenty While the World Goes Online”. The 11 full and 2 short papers presented in this volume were carefully reviewed and selected from 38 submissions. They were organized in topical sections named: agile practices; process assessment; large-scale agile; and short contributions.

Ideation, Conceptualization, Realization Sarah Leins-Zurmuehle 2021-10-11 The software industry is regarded as one of the most creative and dynamic industries in the world. At the same time, sheltering software through copyright and patent law has been a major point of contention for the past 40 years. This doctoral thesis aims to provide new insights to this discussion. Through the use of sociological methodology, it supplies the necessary basic scientific research regarding how software is developed and

commercialized nowadays. Based on these findings, it then legally evaluates to what extent copyright and patent law are able to reflect these structures and determines how an optimal protection scope for computer programs could look like today. This doctoral thesis on one hand offers novel insights and points of view on existing legal doctrines. It further acknowledges as well as legally qualifies some prevailing trends in the software industry, such as Scrum and continuous delivery, that have so far been largely unaddressed by copyright and patent law.

Manual of the Coimbatore District in the Presidency of Madras Sir Frederick Augustus Nicholson 1887

Communications Regulation 1999

Encyclopedia of Information Science and Technology, Third Edition Khosrow-Pour, Mehdi 2014-07-31 "This 10-volume compilation of authoritative, research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"--Provided by publisher.

Monthly Catalog of United States Government Publications United States. Superintendent of Documents 1993 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications; September issue includes List of depository libraries; June and December issues include semiannual index
Millenarian Vision, Capitalist Reality Todd A. Diacon 1991-08-29 Why did a millenarian movement erupt in the Brazilian interior in 1912? Setting out to answer this deceptively simple question, Todd A. Diacon delivers a fascinating account of a culture in crisis. Combining oral history with detailed archival research, Millenarian Vision, Capitalist Reality depicts a peasant community whose security in economic, social, and religious relations was suddenly disrupted by the intrusion of international capital. Diacon shows how a "deadly triumvirate" comprised of foreign capital, state power, and local bosses engineered a land tenure revolution that threatened smallholders' subsistence, sparking rebellion among the Contestado peasants. Unlike most analysis of millenarian movements, Diacon combines a material analysis with a careful exploration of the movement's millenarian ideology to demonstrate how a particular combination of external and internal forces produced a crisis of values in the Contestado society. Such a crisis, Diacon concludes, gave a special power to the millenarian vision that promised not only outward reform, but inner salvation as well. This work offers a significant contribution to the literature of millenarian movements, popular religion, peasant rebellions, and the transition to capitalism in Brazil.

Handbook of Smart Cities Muthucumar Maheswaran 2018-11-15 This handbook provides a glimpse of the research that is underway in smart cities, with an examination of the relevant issues. It describes software infrastructures for smart cities, the role of 5G and Internet of things in future smart cities scenarios, the use of clouds and sensor-based devices for monitoring and managing smart city facilities, a variety of issues in the emerging field of urban informatics, and various smart city applications. Handbook of Smart Cities includes fifteen chapters from renowned worldwide researchers working on various aspects of smart city scale cyber-physical systems. It is intended for researchers, developers of smart city technologies and advanced-level students in the fields of communication systems, computer science, and data science. This handbook is also designed for anyone wishing to find out more about the on-going research thrusts and deployment experiences in smart cities. It is meant to provide a snapshot of the state-of-the-art at the time of its writing in several software services and cyber infrastructures as pertinent to smart cities. This handbook presents application case studies in video surveillance, smart parking, and smart building management in the smart city context. Unique experiences in designing and implementing the applications or the issues involved in developing smart city level applications are described in these chapters. Integration of machine learning into several smart city application scenarios is also examined in some chapters of this handbook.

Resilience Assessment and Evaluation of Computing Systems Katinka Wolter 2012-11-02 The resilience of computing systems includes their dependability as well as their fault tolerance and security. It defines the ability of a computing system to perform properly in the presence of various kinds of disturbances and to recover from any service degradation. These properties are immensely important in a world where many aspects of our daily life depend on the correct, reliable and secure operation of often large-scale distributed computing systems. Wolter and her co-editors grouped the 20 chapters from leading researchers into seven parts: an introduction and motivating examples, modeling techniques, model-driven prediction, measurement and metrics, testing techniques, case studies, and conclusions. The core is formed by 12 technical papers, which are framed by motivating real-world examples and case studies, thus illustrating the necessity and the application of the presented methods. While the technical chapters are independent of each other and can be read in any order, the reader will benefit more from the case studies if he or she reads them together with the related techniques. The papers combine topics like modeling, benchmarking, testing, performance evaluation, and dependability, and aim at academic and industrial researchers in these areas as well as graduate students and lecturers in related fields. In this volume, they will find a comprehensive overview of the state of the art in a field of continuously growing practical importance.