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Technology

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Building Information Modeling

Cloud Computing and Services Science

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RAIDEN JAELYN

Infectious Disease Surveillance Edward Elgar Publishing

Many of the advances achieved in framework technology during the last five years are reported in this volume. However, despite acknowledged developments and an enormous investment by the Computer-Aided Design (CAD) vendor industry and others, commercial framework products have been slow to appear on the market. Further, those which have appeared, have largely failed to meet original targets, whether in terms of scope or performance or both. Reaching a consensus on new international standards has been a painfully slow process, with rapid advances in technology often rendering new standards out of date even before their eventual appearance. A motivation for agreement on technical issues, not yet fully understood or researched, will be vital if a commercial basis to underpin future development is to be achieved. It is hoped this book will stimulate interchange between researchers, developers and users so that practical progress can be made, backed by the strong support of interested industries.

Continuous Auditing Springer Nature
eWork and eBusiness in Architecture, Engineering and Construction 2016 collects the papers presented at the 11th European Conference on Product &

Process Modelling (ECPPM 2016, Cyprus, 7-9 September 2016), The contributions cover complementary thematic areas that hold great promise for the advancement of research and technological development in the modelling of complex engineering systems, encompassing a substantial number of high quality contributions on a large spectrum of topics pertaining to ICT deployment instances in AEC/FM, including: • Information and Knowledge Management • Construction Management • Description Logics and Ontology Application in AEC • Risk Management • 5D/nD Modelling, Simulation and Augmented Reality • Infrastructure Condition Assessment • Standardization of Data Structures • Regulatory and Legal Aspects • Multi-Model and distributed Data Management • System Identification • Industrialized Production, Smart Products and Services • Interoperability • Smart Cities • Sustainable Buildings and Urban Environments • Collaboration and Teamwork • BIM Implementation and Deployment • Building Performance Simulation • Intelligent Catalogues and Services

Optimizing AdWords Packt Publishing Ltd
Offering critical insights to the state-of-the-art in Building Information Modeling (BIM) research and development, this book outlines the prospects and challenges for the field in this era of digital revolution. Analysing the contributions of BIM across the construction industry, it provides a comprehensive survey of global BIM

practices.

Current Trends in Hardware Verification and Automated

Theorem Proving Springer Nature Algorithms for VLSI Physical Design Automation, Second Edition is a core reference text for graduate students and CAD professionals. Based on the very successful First Edition, it provides a comprehensive treatment of the principles and algorithms of VLSI physical design, presenting the concepts and algorithms in an intuitive manner. Each chapter contains 3-4 algorithms that are discussed in detail. Additional algorithms are presented in a somewhat shorter format. References to advanced algorithms are presented at the end of each chapter. Algorithms for VLSI Physical Design Automation covers all aspects of physical design. In 1992, when the First Edition was published, the largest available microprocessor had one million transistors and was fabricated using three metal layers. Now we process with six metal layers, fabricating 15 million transistors on a chip. Designs are moving to the 500-700 MHz frequency goal. These stunning developments have significantly altered the VLSI field: over-the-cell routing and early floorplanning have come to occupy a central place in the physical design flow. This Second Edition introduces a realistic picture to the reader, exposing the concerns facing the VLSI industry, while maintaining the theoretical flavor of the First Edition. New material has been added to all chapters, new sections have been added to most chapters, and a few chapters have been completely rewritten. The textual material is supplemented and clarified by many helpful figures. Audience: An invaluable reference for professionals in layout, design automation and physical design.

Action Transmittal Springer

This book introduces readers to a variety of tools for analog layout design automation. After discussing the placement and routing problem in electronic design automation (EDA), the authors overview a variety of automatic layout generation tools, as well as the most recent advances in analog layout-aware circuit sizing. The discussion includes different methods for automatic placement (a template-based Placer and an optimization-based Placer), a fully-automatic Router and an empirical-based Parasitic Extractor. The concepts and algorithms of all the modules are thoroughly described, enabling readers to reproduce the methodologies, improve the quality of their designs, or use them as starting point for a new tool. All the methods described are applied to practical examples for a 130nm design process, as well as placement and routing benchmark sets.

SEC Docket Springer

Continuous Auditing provides academics and practitioners with a compilation of select continuous auditing design science research, and it provides readers with an understanding of the underlying theoretical concepts of a continuous audit, ideas on how continuous audit can be applied in practice, and what has and has not worked in research.

Building Information Modeling

Routledge

This book of CRIOCM 2021 (26th International Conference on Advancement of Construction Management and Real Estate) presents the latest developments in real estate and construction management around the globe. The conference was organized by the Chinese Research Institute of Construction Management (CRIOCM) working in close collaboration with

Tsinghua University. Written by international academics and professionals, the book discusses the latest achievements, research findings and advances in frontier disciplines in the field of construction management and real estate. Covering a wide range of topics, including building information modeling, big data, geographic information systems, housing policies, management of infrastructure projects, intelligent construction and smart city, real estate finance and economics and urban planning and sustainability, the discussions provide valuable insights into the implementation of advanced construction project management and real estate market in China and abroad. The book offers an outstanding resource for academics and professionals.

Federal Register Springer Science & Business Media

This book represents an invaluable and up-to-date international exchange of research, case studies and best practice to tackle the challenges of digital technology, computer-aided design, 3D modeling, prototyping machines and computational design. With contributions from leading experts in the field of industrial design and cultural heritage, it is split into three parts. The first part explores basic rules of design, design models and shape grammar, including the management of complex forms, and proves that innovative concepts may be derived from organic models using generative design. The second part then investigates responsive design, describing how to manage the changing morphologies of buildings through pre-programmed mechanisms of real-time response and feedback embedded in inhabitable spaces. Lastly, the third part focuses on digital heritage and its capability to increase the interaction and

manipulation of object and concepts, ranging from augmented reality to modeling generative tools. The book gathers peer-reviewed papers presented at the eCAADe (Education and Research in Computer-Aided Architectural Design in Europe) Regional International Symposium, held in Milan, Italy, in 2015.

Business Process Management

Workshops CRC Press

This book provides a detailed insight into Robotic Process Automation (RPA) technologies linked with AI that will help organizations implement Industry 4.0 procedures. RPA tools enhance their functionality by incorporating AI objectives, such as use of artificial neural network algorithms, text mining techniques, and natural language processing techniques for information extraction and the subsequent process of optimization and forecasting scenarios for the purpose of improving an organization's operational and business processes. The target readers of this book are researchers, professors, graduate students, scientists, policymakers, professionals, and developers working in the IT and ITeS sectors, i.e. people who are working on emerging technologies. This book also provides insights and decision support tools necessary for executives concerned with different industrial and organizational automation-centric jobs, knowledge dissemination, information, and policy development for automation in different educational, government, and non-government organizations. This book is of special interest to college and university educators who teach AI, machine learning, blockchain, business intelligence, cognitive intelligence, and brain intelligence courses in different capacities.

Analog Device-Level Layout Automation

Packt Publishing Ltd

This report describes the partially completed correctness proof of the Viper 'block model'. Viper [7,8,9,11,23] is a microprocessor designed by W. J. Cullyer, C. Pygott and J. Kershaw at the Royal Signals and Radar Establishment in Malvern, England, (henceforth 'RSRE') for use in safety-critical applications such as civil aviation and nuclear power plant control. It is currently finding uses in areas such as the deployment of weapons from tactical aircraft. To support safety-critical applications, Viper has a particularly simple design about which it is relatively easy to reason using current techniques and models. The designers, who deserve much credit for the promotion of formal methods, intended from the start that Viper be formally verified. Their idea was to model Viper in a sequence of decreasingly abstract levels, each of which concentrated on some aspect of the design, such as the flow of control, the processing of instructions, and so on. That is, each model would be a specification of the next (less abstract) model, and an implementation of the previous model (if any). The verification effort would then be simplified by being structured according to the sequence of abstraction levels. These models (or levels) of description were characterized by the design team. The first two levels, and part of the third, were written by them in a logical language amenable to reasoning and proof.

Advances in Informatics and Computing in Civil and Construction Engineering John Wiley & Sons

"Many researchers and software developers have put a lot of effort into finding solutions for automated code checking. This book is a good summary of these efforts and provides readers

with a comprehensive understanding of the status of such technologies in the industry. It also guides readers on implementation of such techniques using the platforms and tools currently available in the industry." — Issa Ramaji, University of North Florida, USA Building Information Modeling: Automated Code Checking and Compliance Processes covers current and emerging trends in automating the processes of examining building design against codes and standards of practice. The role of Building Information Modeling (BIM) technologies in these processes is thoroughly analyzed and explains how this new technology is significantly transforming modern architecture, engineering, and construction (AEC) domains. The book also introduces the theoretical background of computerizing compliance verification, including domain knowledge representations, building model representations, and automated code checking systems. An underlying goal for the material covered is to present the use of BIM technology as an integral part of the automated auditing process that can lead to a more comprehensive, intelligent, and integrated building design— a design where an optimized solution can be achieved in harmony with the current codes and standards of practice. This new proposed BIM-based framework for automating code conformance checking is one of the most powerful methods presently available to reflect actual building code requirements, and the methods described in the book offer significant benefits to the AEC industry such as: Providing consistency in interpretation of regulatory provisions Reducing code compliance validation errors, and the cost and time associated with compliance checking Allows for the

ability to self-check required aspects before bidding Reduces the amount of time and resources required during design review Allows for optimal design, along with faster turnaround on feedback, and potentially faster approvals for construction permits by building and infrastructure authorities

Flexible Automation and Intelligent Manufacturing: Establishing Bridges for More Sustainable Manufacturing Systems North Holland

Explore all the fundamental concepts and major applications of Jira Work Management to build and manage your business projects efficiently Key Features Get to grips with Jira Core updates Discover how to use all the new JWM features such as lists, templates, calendars, and forms Learn about administration schemes, automation, and simple administration capabilities Book Description Jira Work Management (JWM) is the newest project management tool from Atlassian, replacing Atlassian's previous product, Jira Core Cloud. While Jira Software focuses on development groups, JWM is specifically targeted toward business teams in your organization, such as human resources, accounting, legal, and marketing, enabling these functional groups to manage and enhance their work, as well as stay connected with their company's developers and other technical groups. This book helps you to explore Jira project templates and work creation and guides you in modifying a board, workflow, and associated schemes. Jira Work Management for Business Teams takes a hands-on approach to JWM implementation and associated processes that will help you get up and running with Jira and make you productive in no time. As you explore the toolset, you'll find out how to create

reports, forms, and dashboards. The book also shows you how to manage screens, field layouts, and administer your JWM projects effectively. Finally, you'll get to grips with the basics of creating automation rules and the most popular use cases. By the end of this Jira book, you'll be able to build and manage your own Jira Work Management projects and make basic project-related adjustments to achieve optimal productivity. What you will learn Understand how JWM can help your company to increase productivity Discover how to use templates to create projects quickly and with ease Leverage JWM's newest features, including an in-line editable list, a built-in calendar, a roadmap-style timeline, and an updated board Explore custom fields and see the impact of your project screen arrangement Get to grips with simple administration and how schemes can be used to ease maintenance Find out how Atlassian Marketplace apps can extend your Jira product Discover how to use automation to complete routine and repetitive tasks Who this book is for This book is for product managers and project managers who want to learn how to quickly get started with non-software projects in Jira. End users working as part of functional teams, including human resources, finance, legal, and marketing teams will also benefit greatly from this book. Familiarity with Jira is helpful but not required.

Electronic Design Automation Frameworks CRC Press

Within the overarching theme of "Managing the Digital Transformation of Construction Industry" the 23rd International Conference on Construction Applications of Virtual Reality (CONVR 2023) presented 123 high-quality contributions on the topics of: Virtual

and Augmented Reality (VR/AR), Building Information Modeling (BIM), Simulation and Automation, Computer Vision, Data Science, Artificial Intelligence, Linked Data, Semantic Web, Blockchain, Digital Twins, Health & Safety and Construction site management, Green buildings, Occupant-centric design and operation, Internet of Everything. The editors trust that this publication can stimulate and inspire academics, scholars and industry experts in the field, driving innovation, growth and global collaboration among researchers and stakeholders.

Analog Integrated Circuit Design

Automation Springer

This fully updated edition of Infectious Disease Surveillance is for frontline public health practitioners, epidemiologists, and clinical microbiologists who are engaged in communicable disease control. It is also a foundational text for trainees in public health, applied epidemiology, postgraduate medicine and nursing programs. The second edition portrays both the conceptual framework and practical aspects of infectious disease surveillance. It is a comprehensive resource designed to improve the tracking of infectious diseases and to serve as a starting point in the development of new surveillance systems. Infectious Disease Surveillance includes over 45 chapters from over 100 contributors, and topics organized into six sections based on major themes. Section One highlights the critical role surveillance plays in public health and it provides an overview of the current International Health Regulations (2005) in addition to successes and challenges in infectious disease eradication. Section Two describes surveillance systems based on logical program areas such as foodborne illnesses, vector-borne

diseases, sexually transmitted diseases, viral hepatitis healthcare and transplantation associated infections. Attention is devoted to programs for monitoring unexplained deaths, agents of bioterrorism, mass gatherings, and disease associated with international travel. Sections Three and Four explore the uses of the Internet and wireless technologies to advance infectious disease surveillance in various settings with emphasis on best practices based on deployed systems. They also address molecular laboratory methods, and statistical and geospatial analysis, and evaluation of systems for early epidemic detection. Sections Five and Six discuss legal and ethical considerations, communication strategies and applied epidemiology-training programs. The rest of the chapters offer public-private partnerships, as well lessons from the 2009-2010 H1N1 influenza pandemic and future directions for infectious disease surveillance.

Green Buildings and Renewable Energy
Springer

Software has become ever more crucial as an enabler, from daily routines to important national decisions. But from time to time, as society adapts to frequent and rapid changes in technology, software development fails to come up to expectations due to issues with efficiency, reliability and security, and with the robustness of methodologies, tools and techniques not keeping pace with the rapidly evolving market. This book presents the proceedings of SoMeT_19, the 18th International Conference on New Trends in Intelligent Software Methodologies, Tools and Techniques, held in Kuching, Malaysia, from 23-25 September 2019. The book explores new trends and theories that highlight the direction and

development of software methodologies, tools and techniques, and aims to capture the essence of a new state of the art in software science and its supporting technology, and to identify the challenges that such a technology will have to master. The book also investigates other comparable theories and practices in software science, including emerging technologies, from their computational foundations in terms of models, methodologies, and tools. The 56 papers included here are divided into 5 chapters: Intelligent software systems design and techniques in software engineering; Machine learning techniques for software systems; Requirements engineering, software design and development techniques; Software methodologies, tools and techniques for industry; and Knowledge science and intelligent computing. This comprehensive overview of information systems and research projects will be invaluable to all those whose work involves the assessment and solution of real-world software problems.

Jira Work Management for Business

Teams Firenze University Press

Optimizing AdWords provides the information marketers and future marketers need to harness the power of the Google's AdWords search engine marketing applications. It provides a big picture overview of the AdWords system, helping businesses and individuals decide how to advertise products or their clients' products. Optimizing AdWords was written for those at every rung of the ladder, from Marketing Directors to small business owners to students just starting out in marketing. This volume is organized around accessibility and ease of use. Author Paige Miller, co-founder of MultiPlanet Marketing Inc., has written this how-to guide to be super easy and

fast to read and absorb. It moves you straight to the salient points of the text, allowing readers to take on AdWords in overview before coming back and collecting the finer details. Chapters 1 through 4 cover the basics, while the rest serve as a reference readers can come back to in building and growing campaigns. Using this book, professional marketers and other business professionals can utilize Google AdWords and optimize it for existing marketing strategies, or create whole new campaigns based around the system. Today, given the level of competition for ad positions on Google search pages, success hinges on understanding Google AdWords well enough to outperform competition. This book will provide readers with the knowledge necessary to master Google AdWords.

Enhanced Test Automation with

WebdriverIO Springer Science & Business Media

This book constitutes the proceedings of the 18th International Conference on Cooperative Design, Visualization, and Engineering, CDVE 2021, held in October 2021. Due to COVID-19 pandemic the conference was held virtually. The 25 full papers and 9 short papers presented were carefully reviewed and selected from 69 submissions. The achievement, progress and future challenges are reported in areas such as health care, industrial design, banking IT systems, cultural activities support, operational maritime cybersecurity assurance, emotion communication, and social network data analytics.

Commerce, Justice, Science, and Related Agencies Appropriations for 2014

Springer Science & Business Media

This book brings together experts from research and practice. It includes the design of innovative Robot Process

Automation (RPA) concepts, the discussion of related research fields (e.g., Artificial Intelligence, AI), the evaluation of existing software products, and findings from real-life implementation projects. Similar to the substitution of physical work in manufacturing (blue collar automation), Robotic Process Automation tries to substitute intellectual work in office and administration processes with software robots (white-collar automation). The starting point for the development of RPA was the observation that – despite the use of process-oriented enterprise systems (such as ERP, CRM and BPM systems) – additional manual activities are still indispensable today. In the RPA approach, these manual activities are learned and automated by software robots, either by defining rules or by observing manual activities. RPA is related to business process management, machine learning, and artificial intelligence. Tools for RPA originated from dedicated stand-alone software. Today, RPA functionalities are also integrated into elaborated process management suites. From a conceptual perspective, RPA can be structured into input components (sensors in the wide sense), an intelligence center, and output components (actuators in the wide sense). From a strategic perspective, the impact of RPA can be related to the support of existing tasks, the complete substitution of human activities, and the innovation of processes as well as business models. At present, high expectations are related to the use of RPA in the improvement of software-supported business processes. Manual activities are learned and automated by software robots that interact with existing applications via the presentation layer. In combination with

artificial intelligence (AI) as well as innovative interfaces (e. g., voice recognition) RPA creates a novel level of automation for office and administration processes. Its benefit potential reaches a return on investment (ROI) up-to 800% that is documented in various case studies.

eWork and eBusiness in Architecture, Engineering and Construction: ECPPM 2016 Walter de Gruyter GmbH & Co KG
LNBIP 99 and LNBIP 100 together constitute the thoroughly refereed proceedings of 12 international workshops held in Clermont-Ferrand, France, in conjunction with the 9th International Conference on Business Process Management, BPM 2011, in August 2011. The 12 workshops focused on Business Process Design (BPD 2011), Business Process Intelligence (BPI 2011), Business Process Management and Social Software (BPMS2 2011), Cross-Enterprise Collaboration (CEC 2011), Empirical Research in Business Process Management (ER-BPM 2011), Event-Driven Business Process Management (edBPM 2011), Process Model Collections (PMC 2011), Process-Aware Logistics Systems (PALS 2011), Process-Oriented Systems in Healthcare (ProHealth 2011), Reuse in Business Process Management (rBPM 2011), Traceability and Compliance of Semi-Structured Processes (TC4SP 2011), and Workflow Security Audit and Certification (WfSAC 2011). In addition, the proceedings also include the Process Mining Manifesto (as an Open Access Paper), which has been jointly developed by more than 70 scientists, consultants, software vendors, and end-users. LNBIP 100 contains the revised and extended papers from PMC 2011, PALS 2011, ProHealth 2011, rBPM 2011, TC4SP 2011, and WfSAC 2011.

Proceedings of the 26th International Symposium on Advancement of Construction Management and Real Estate Packt Publishing Ltd

Learn Chef Provisioning like a boss and discover how to deploy software and manage hosts, along with engaging recipes to automate your cloud and server infrastructure with Chef. About This Book Leverage the power of Chef to transform your infrastructure into code to deploy new features in minutes Get step-by-step instructions to configure, deploy, and scale your applications Master specific Chef techniques to run an entire fleet of machines without breaking a sweat. Who This Book Is For If you are a system administrator, Linux administrator, a cloud developer, or someone who just wants to learn and apply Chef automation to your existing or new infrastructure, then this learning path will show you all you need to know. In order to get the most out of this learning path, some experience of programming or scripting languages would be useful. What You Will Learn Install Chef server on your own hosts Integrate Chef with cloud services Debug your cookbooks and Chef runs using the numerous inspection and logging facilities of Chef Extend Chef to meet your advanced needs by creating custom plugins for Knife and Ohai Create a perfect model system Use the best test-driven development methodologies In Detail Chef is a configuration management tool that turns IT infrastructure into code. Chef provides tools to manage systems at scale. This

learning path takes you on a comprehensive tour of Chef's functionality, ranging from its core features to advanced development. You will be brought up to speed with what's new in Chef and how to set up your own Chef infrastructure for individuals, or small or large teams. You will learn to use the basic Chef command-line tools. We will also take you through the core concepts of managing users, applications, and your entire cloud infrastructure. You will learn the techniques of the pros by walking you through a host of step-by-step guides to solve real-world infrastructure automation challenges. You will learn to automate and document every aspect of your network, from the hardware to software, middleware, and all your containers. You will become familiar with the Chef's Provisioning tool. By the end of this course, you will be confident in how to manage your infrastructure, scale using the cloud, and extend the built-in functionality of Chef itself. The books used in this Learning Path are: 1) Chef Essentials 2) Chef Infrastructure Automation Cookbook - Second Edition 3) Mastering Chef Provisioning Style and approach This fast-paced guide covers the many facets of Chef and will teach administrators to use Chef as a birds-eye lens for their entire system. This book takes you through a host of step-by-step guides to solve real-world infrastructure automation challenges and offers elegant, time-saving solutions for a perfectly described and automated network.

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