Maximo 75 Workflow Guide

IBM® defines a smarter city as one that makes optimal use of all available information to better understand and control its operations and optimize the use of resources. There is much information available from different sources. However, city officials often lack the holistic view of the city's operations that is required to respond to the citizens' needs in a timely manner and use the city resources wisely. IBM Intelligent Operations Center delivers a unified view of city agencies, providing three primary elements for successful management of cities: use information, anticipate problems, and coordinate actions and resources. Chapter 1 of this IBM Redbooks® publication introduces the IBM Intelligent Operations Center solution. The chapter provides a high-level overview of its features, benefits, and architecture. This information is intended for city officials and IT architects that must understand the business value of IBM Intelligent Operations Center and its architecture. The remaining chapters of this book focus on information that help IBM Intelligent Operations Center administrators perform daily administration tasks. This book describes commands and tools that IBM Intelligent Operations Center administrators must use to keep the solution running, troubleshoot and diagnose problems, and perform preventive maintenance. This book includes preferred practices, tips and techniques, and general suggestions for administrators of IBM Intelligent Operations Center on-premises deployments. For related information about this topic, refer to the following IBM Redbooks publications: IBM Intelligent Operations Center for Smarter Cities Redpaper, REDP-4939 IBM Intelligent Operations Center for Smarter Cities Solution Guide

Metabolomics is increasingly being used to explore the dynamic responses of living systems in biochemical research. The complexity of the metabolome is outstanding, requiring the use of complementary analytical platforms and methods for its quantitative or qualitative profiling. In alignment with the selected analytical approach and the study aim, sample collection and preparation are critical steps that must be carefully selected and optimized to generate high-quality metabolomic data. This book showcases some of the most recent developments in the field of sample preparation for metabolomics studies. Novel technologies presented include electromembrane extraction of polar metabolites from plasma samples and guidelines for the preparation of biospecimens for the analysis with high-resolution ? magic-angle spinning nuclear magnetic resonance (HR-?MAS NMR). In the following chapters, the spotlight is on sample

preparation approaches that have been optimized for diverse bioanalytical applications, including the analysis of cell lines, bacteria, single spheroids, extracellular vesicles, human milk, plant natural products and forest trees.

This IBM® Redbooks® publication provides a broad view of how Tivoli® system management products work together in several common scenarios. You must achieve seamless integration for operations personnel to work with the solution. This integration is necessary to ensure that the product can be used easily by the users. Product integration contains multiple dimensions, such as security, navigation, data and task integrations. Within the context of the scenarios in this book, you see examples of these integrations. The scenarios implemented in this book are largely based on the input from the integration team, and several clients using IBM products. We based these scenarios on common real-life examples that IT operations often have to deal with. Of course, these scenarios are only a small subset of the possible integration scenarios that can be accomplished by the Tivoli products, but they were chosen to be representative of the integration possibilities using the Tivoli products. We discuss these implementations and benefits that are realized by these integrations, and also provide sample scenarios of how these integrations work. This book is a reference guide for IT architects and IT specialists working on integrating Tivoli products in real-life environments.

IBM® Rational® Application Developer for WebSphere® Software V8 is the full-function Eclipse 3.6 technology-based development platform for developing JavaTM Platform, Standard Edition Version 6 (Java SE 6) and Java Platform, Enterprise Edition Version 6 (Java EE 6) applications. Beyond this function, Rational Application Developer provides development tools for technologies, such as OSGi, Service Component Architecture (SCA), Web 2.0, and XML. It has a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development tools for all development roles, including web developers, Java developers, business analysts, architects, and enterprise programmers. This IBM Redbooks® publication is a programming guide that highlights the features and tooling included with Rational Application Developer V8.0.1. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications and achieve the benefits of visual and rapid application development. This publication is an update of Rational Application Developer V7.5 Programming Guide, SG24-7672.

IoT Automation

Gene Expression Analysis
Why Some Ideas Survive and Others Die
Deployment Guide for InfoSphere Guardium
The ARCS Model Approach

In today's data driven biology, programming knowledge is essential in turning ideas into testable hypothesis. Based on the author's extensive experience, Python for Bioinformatics, Second Edition helps biologists get to grips with the basics of software development. Requiring no prior knowledge of programming-related concepts, the book focuses on the easy-to-use, yet powerful, Python computer language. This new edition is updated throughout to Python 3 and is designed not just to help scientists master the basics, but to do more in less time and in a reproducible way. New developments added in this edition include NoSQL databases, the Anaconda Python distribution, graphical libraries like Bokeh, and the use of Github for collaborative development.

Today, organizations face tremendous challenges with data explosion and information governance. InfoSphereTM OptimTM solutions solve the data growth problem at the source by managing the enterprise application data. The Optim Data Growth solutions are consistent, scalable solutions that include comprehensive capabilities for managing enterprise application data across applications, databases, operating systems, and hardware platforms. You can align the management of your enterprise application data with your business objectives to improve application service levels, lower costs, and mitigate risk. In this IBM® Redbooks® publication, we describe the IBM InfoSphere Optim Data Growth solutions and a methodology that provides implementation guidance from requirements analysis through deployment and administration planning. We also discuss various implementation topics including system architecture design, sizing, scalability, security, performance, and automation. This book is intended to provide various systems development professionals, Data Solution Architects, Data Administrators, Modelers, Data Analysts, Data Integrators, or anyone who has to analyze or integrate data structures, a broad understanding about IBM InfoSphere Optim Data Growth solutions. By being used in conjunction with the product manuals and online help, this book provides guidance about implementing an optimal solution for managing your enterprise application data.

NEW YORK TIMES BESTSELLER • The instant classic about why some ideas thrive, why others die, and how to make your ideas stick. "Anyone interested in influencing others—to buy, to vote, to learn, to diet, to give to charity or to start a revolution—can learn from this book."—The Washington Post Mark Twain once observed, "A lie can get halfway around the world before the truth can even get its boots on." His observation rings true: Urban legends, conspiracy theories, and bogus news stories circulate effortlessly. Meanwhile, people with important ideas—entrepreneurs, teachers, politicians, and journalists—struggle to make them "stick." In Made to Stick, Chip and Dan Heath reveal the anatomy of ideas that stick and explain ways to make ideas stickier, such as applying the human scale principle, using the Velcro Theory of Memory, and creating curiosity gaps. Along the way, we discover that sticky messages of all kinds—from the infamous "kidney theft ring" hoax to a coach's lessons on sportsmanship to a vision for a new product at Sony—draw their power

from the same six traits. Made to Stick will transform the way you communicate. It's a fast-paced tour of success stories (and failures): the Nobel Prize-winning scientist who drank a glass of bacteria to prove a point about stomach ulcers; the charities who make use of the Mother Teresa Effect; the elementary-school teacher whose simulation actually prevented racial prejudice. Provocative, eye-opening, and often surprisingly funny, Made to Stick shows us the vital principles of winning ideas—and tells us how we can apply these rules to making our own messages stick.

IBM® InfoSphere® Guardium® provides the simplest, most robust solution for data security and data privacy by assuring the integrity of trusted information in your data center. InfoSphere Guardium helps you reduce support costs by automating the entire compliance auditing process across heterogeneous environments. InfoSphere Guardium offers a flexible and scalable solution to support varying customer architecture requirements. This IBM Redbooks® publication provides a guide for deploying the Guardium solutions. This book also provides a roadmap process for implementing an InfoSphere Guardium solution that is based on years of experience and best practices that were collected from various Guardium experts. We describe planning, installation, configuration, monitoring, and administrating an InfoSphere Guardium environment. We also describe use cases and how InfoSphere Guardium integrates with other IBM products. The guidance can help you successfully deploy and manage an IBM InfoSphere Guardium system. This book is intended for the system administrators and support staff who are responsible for deploying or supporting an InfoSphere Guardium environment.

IBM Tivoli Asset Management for IT Portfolio Overview

Sample Preparation in Metabolomics

Thiamethoxam

Python for the Java Platform

Maintenance Excellence

Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building

information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

This open access book explores commentaries on an influential text of pre-Copernican astronomy in Europe. It features essays that take a close look at key intellectuals and how they engaged with the main ideas of this qualitative introduction to geocentric cosmology. Johannes de Sacrobosco compiled his Tractatus de sphaera during the thirteenth century in the frame of his teaching activities at the then recently founded University of Paris. It soon became a mandatory text all over Europe. As a result, a tradition of commentaries to the text was soon established and flourished until the second half of the 17th century. Here, readers will find an informative overview of these commentaries complete with a rich context. The essays explore the educational and social backgrounds of the writers. They also detail how their careers developed after the publication of their commentaries, the institutions and patrons they were affiliated with, what their agenda was, and whether and how they actually accomplished it. The editor of this collection considers these scientific commentaries as genuine scientific works. The contributors investigate them here not only in reference to the work on which it comments but also, and especially, as independent scientific contributions that are socially, institutionally, and intellectually contextualized around their authors.

Covering regulatory requirements stipulated by the FDA, this book delineates the organization, planning, verification, and documentation activities and procedural controls required for compliance with worldwide computer systems validation regulations. The author introduces supporting technologies such as encryption and digital signatures and places

Many companies have a complex process for purchasing software that is required by IT projects, or better, by the business. Usually software is purchased by a centralized procurement function, and is either purchased on a project-by-project basis or as a large periodic software contract. Unfortunately purchasing software products does not automatically mean that these products are exploited throughout the organization providing the maximum possible value to the business units. Several issues call for a structured approach that gets the most business value out of software already purchased. The objectives of this approach are to: Create maximum awareness throughout the organization of the software purchased. Track software use in IT projects and act if products are not used at all, used improperly, or insufficiently used. Facilitate use of software products in projects, especially when software products are complex and require a lot of integration. We can summarize the overall objective of this approach as ensuring

that the business units in an organization obtain the maximum possible value of software products purchased, which is also the scope of this IBM® Redbooks® publication.

Information Technology and Systems

BIM Handbook

Implementing an InfoSphere Optim Data Growth Solution

Canva Tips and Tricks Beyond The Limits

Value Realization from Efficient Software Deployment

It is impossible to control another person's motivation. But much of the instructor's job involves stimulating learner motivation, and learning environments should ideally be designed toward this goal. Motivational Design for Learning and Performance introduces readers to the core concepts of motivation and motivational design and applies this knowledge to the design process in a systematic step-by-step format. The ARCS model—theoretically robust, rooted in best practices, and adaptable to a variety of practical uses—forms the basis of this problem-solving approach. Separate chapters cover each component of the model—attention, relevance, confidence, and satisfaction—and offer strategies for promoting each one in learners. From there, the motivational design process is explained in detail, supplemented by real-world examples and ready-to-use worksheets. The methods are applied to traditional and alternative settings, including gifted classes, elementary grades, self-directed learning, and corporate training. And the book is geared toward the non-specialist reader, making it accessible to those without a psychology or teaching background. With this guide, the reader learns how to: Identify motivation problems and goals Decide whether the environment or the learners need changing Generate attention, relevance, confidence, and satisfaction in learners Integrate motivational design and instructional design Select, develop, and evaluate motivational materials Plus a wealth of tables, worksheets, measures, and other valuable tools aid in the design process Comprehensive and enlightening, Motivational Design for Learning and Performance furnishes an eminently practical body of knowledge to researchers and professionals in performance technology and instructional design as well as educational psychologists, teachers and trainers.

By using the Migration Manager, you can migrate configuration content from one production environment to another. The typical use is to migrate configuration content from a development environment to a test environment and then on to production for the Tivoli® process automation engine and its applications, such as IBM® SmartCloud® Control Desk. The goal of migration is to ensure that your production environment fully meets the needs of your users. This IBM Redbooks® publication is an update of the existing book Migration Use Cases with the Migration Manager, SG24-7906 and covers the most common migration use cases with the Migration Manager, including the capabilities that were introduced with Tivoli's process automation engine V7.5. These use cases are only a small subset of the possible migration scenarios that can be performed by the Migration Manager, but they were chosen to be representative of the capabilities of the Migration Manager. In addition to these use cases, the book presents a migration strategy and a comprehensive chapter about troubleshooting possible migration problems when the Migration Manager is used. We strongly suggest that you read Chapter 1, "Migration strategy" on page 1 first before reading the other chapters. This chapter give syou a good foundation for all of the migration scenarios that are covered in the book. This book is a reference for IT Specialists and IT Architects working on migrating configuration

content from one production environment to another by using the Migration Manager.

SmartCloud Control Desk is a comprehensive IT Asset and Service Management solution that helps reduce cost and minimize service disruptions. It does so through automated service request handling, efficient change management, and optimized asset lifecycle management across IT and enterprise domains. SmartCloud Control Desk helps to reduce total cost of ownership by using one unified solution to license, install, and manage multiple ITIL processes under one price point. It can also help reduce business risk by using advanced impact analysis and defining automated change procedures that ensure integrity of existing infrastructure while supporting business agility. SmartCloud Control Desk improves efficiency and quality of service by unifying asset, change, and problem management. It lowers cost and mitigates license compliance risk by performing end to end software asset management. It also delivers an adaptive, role-based simplified UI that can be more intuitive for novice users, which reduces training costs, while allowing access from anywhere at anytime through mobile device support that includes BlackBerry, iOS, and Android. In addition, SmartCloud Control Desk supports both a profit center business model for internal IT organizations, and an external Service Provider model. It allows organizations to manage customers and customer agreements and bills for managed assets, usage, and work activities while improving utilization rates and reducing unnecessary purchases by managing the IT asset lifecycle. You can deploy SmartCloud Control Desk in a variety of ways; traditional on-premise, SaaS, VM image. This approach can make it more affordable to meet your current business needs, and seamlessly move between delivery models while keeping the same functionality. This IBM® Redbooks® publication covers IBM SmartCloud® Control Desk product configuration, customization, and implementation best practices.

Design and build cutting-edge video games with help from video game expert Scott Rogers! If you want to design and build cutting-edge video games but aren’t sure where to start, then this is the book for you. Written by leading video game expert Scott Rogers, who has designed the hits Pac Man World, Maxim vs. Army of Zin, and SpongeBob Squarepants, this book is full of Rogers's wit and imaginative style that demonstrates everything you need to know about designing great video games. Features an approachable writing style that considers game designers from all levels of expertise and experience Covers the entire video game creation process, including developing marketable ideas, understanding what gamers want, working with player actions, and more Offers techniques for creating non-human characters and using the camera as a character Shares helpful insight on the business of design and how to create design documents So, put your game face on and start creating memorable, creative, and unique video games with this book!

Rational Application Developer for WebSphere Software V8 Programming Guide

Complete Guide to International Computer Validation Compliance for the Pharmaceutical Industry

Methods and Protocols

The First Digital World War

IBM Predictive Maintenance and Quality 2.0 Technical Overview

Cloud computing provides companies with many capabilities to meet their business needs but can also mean that a hybrid architecture is created that includes on-premise systems and the cloud. Integration is needed to bridge the gap between the on-premise existing systems and the new cloud applications, platform, and infrastructure. IBM® WebSphere® Cast Iron® meets the challenge of integrating cloud applications with on-premise systems, cloud applications-to-cloud applications, and on-premise to on-premise applications. It

contains a graphical development environment that provides built-in connectivity to many cloud and on-premise applications and reusable solution templates that can be downloaded from a solution repository. The integration solutions that are created can then run on either an on-premise integration appliance or the multi-tenant WebSphere Cast Iron Live cloud service. This IBM Redbooks® publication is intended for application integrators, integration designers, and administrators evaluating or already using IBM WebSphere Cast Iron. Executives, leaders, and architects who are looking for a way to integrate cloud applications with their on-premise applications are also shown how WebSphere Cast Iron can help to resolve their integration challenges. The book helps you gain an understanding of Cast Iron and explains how to integrate cloud and on-premise applications quickly and simply. It gives a detailed introduction to the development tool and the administration interfaces and how they are used. It also discusses security, high availability, and re-usability. The book also includes three detailed scenarios covering real-world implementations of a Cast Iron Integration Solution.

The IBM® Maximo® for Service Providers product is designed to support Service as a business. It helps lower total cost-of-ownership and increase profitability and customer satisfaction by managing clients' assets either through third-party outsourcing or internally shared services model. This IBM Redbooks® publication introduces IBM Maximo for Service Providers product and its components. We took a practical approach in this book, and presented the features and functions of the IBM Maximo for Service Providers product in the context of a number of real-life scenarios or usage patterns. These scenarios are commonly used at IBM customer sites to satisfy specific business requirements. For each scenario, we establish the business reason, benefits, and how to implement the scenario. There is also a section on initial product configuration that touches on several configuration points, such as creating the customers, security groups, and response plans. This book is a reference guide for IT Specialists and IT Architects implementing IBM Maximo for Service Providers.

Before registering a pesticide for food use in Canada, the Pest Management Regulatory Agency must determine the quantity of residues that are likely to remain in or on the food when the pesticide is used according to the label directions and that such residues will not pose an unacceptable health risk. This quantity is then legally established as a maximum residue limit (MRL). This document presents the proposed MRLs for the end-use products Actara 240 SC Insecticide and Actara 25 WG Insecticide, containing technical product thiamethoxam, for use in Canada to control labelled insects on potatoes and pome fruits.--Includes text from document.

Considering maintenance from a proactive, rather than reactive, perspective, Maintenance Excellence details the strategies, tools, and solutions for maximizing the productivity of physical assets—focusing on profitability potential. The editors address contemporary concerns, key terms, data requirements, critical methodologies, and essential mathematical needs. They present maintenance in a business context, review planning,

measurement, feedback, and techniques related to cost, efficiency, and results, and summarize applications of tools and software from statistics and neural networks to cost-optimized models.

IBM Intelligent Operations Center for Smarter Cities Administration Guide

Made to Stick

IT Service Management Best Practices Using IBM SmartCloud Control Desk

Case Studies of Software Test Automation

A unique book that consists entirely of test automation case studies from a variety of domains - from the top names in the field * *Proven advice to empower development organizations to save time by mirroring others' experiences and save money by avoiding others' mistakes. *Insightful case studies from a wide variety of domains, including aerospace, pharmaceuticals, insurance, technology, and telecommunications. *Focuses on the basic issues, rather then technology trends, to give the book a long shelf life. The practice of test automation is becoming more and more popular, but many organizations are not yet experiencing success with it. This book unveils the secrets of how automation has been made to work in reality. The knowledge gained by reading this book can save months or years of effort in automating software testing by helping organizations avoid expensive mistakes and take advantage of proven ideas. By its nature, this book shows the current state of software test automation practice. The authors aim to keep the contributions focused on those things that are more universal (e.g. people issues, return on investment, etc.) and to minimize detailed technical content where this does not impede the process of learning valuable lessons, in order to give the book as long a shelf life as possible. Software practitioners always enjoy reading about what happened to others. For example, at conferences, case study presentations are usually very well attended. The authors/editors have gathered together a collection of experiences from a cross-section of industries and countries, both success stories and failures, in both agile and traditional development. In addition to the case studies, the authors/editors comment on issues raised in these stories, and also include a chapter summarizing good practices and common pitfalls.

This IBM® RedpaperTM publication updated technical overview provides essential details about the data processing steps, message flows, and analytical models that power IBM Predictive Maintenance and Quality (PMQ) Version 2.0. The new version of PMQ builds on the first one, released in 2013, to help companies efficiently monitor and maintain production assets and improve their overall availability,

utilization, and performance. It analyzes various types of data to detect failure patterns and poor quality parts earlier than traditional quality control methods, with the goal of reducing unscheduled asset downtime and improving quality metrics. Version 2.0 includes an improved method of interacting with the solution's analytic data store using an API from the new Analytics Solution Foundation, a reusable, configurable, and extensible component that supports a number of the solution's analytic functions. The new version also changes the calculation of profiles and KPIs, which is now done using orchestrations that are defined in XML. This updated technical overview provides details about these new orchestration definitions.

In order to comply with government and industry regulations, such as Sarbanes-Oxley, Gramm-Leach-Bliley, and COBIT, enterprises have to constantly detect, validate, and report unauthorized change and out-of-compliance actions on their IT infrastructure. The Tivoli Compliance Insight Manager solution allows organizations to improve the security of their information systems by capturing comprehensive log data, correlating this data through sophisticated log interpretation and normalization, and communicating results through a dashboard and a full set of audit and compliance reporting. We discuss the business context of security audit and compliance software for organizations, and we show a typical deployment within a business scenario. This IBM Redbooks publication is a valuable resource for security officers, administrators, and architects who wish to understand and deploy a centralized security audit and compliance solution.

Completely reengineered for ASP.NET 4—this definitive guide deftly illuminates the core architecture and programming features of ASP.NET 4 in a single, pragmatic volume. Web development expert Dino Esposito provides essential, architectural-level guidance, along with the in-depth technical insights designed to take you—and your solutions—to the next level. The book covers Dynamic Data, AJAX, Microsoft Silverlight, ASP.NET MVC, Web forms, LINQ, and security strategies—and features extensive code samples in Microsoft Visual C#(R) 2010.

Getting Started with IBM WebSphere Cast Iron Cloud Integration

A Guide to Building Information Modeling for Owners, Designers, Engineers, Contractors, and Facility Managers

Optimizing Equipment Life-Cycle Decisions

The Guide to Great Video Game Design

Experiences of Test Automation

Design Guidelines for Blood Centreswill serve as a tool for authorities responsible for developing building centers to house blood transfusion services. These guidelines were prepared to assist countries in developing appropriate, purpose-built facilities for blood services. They may be used to guide the design of new buildings, to direct the renovation of existing facilities or even to improve work patterns by considering the layout in established facilities.

From the bestselling author of Black Hawk Down, the gripping story of the Conficker worm—the cyberattack that nearly toppled the world. The Conficker worm infected its first computer in November 2008, and within a month had infiltrated 1.5 million computers in 195 countries. Banks, telecommunications companies, and critical government networks—including British Parliament and the French and German military—became infected almost instantaneously. No one had ever seen anything like it. By January 2009, the worm lay hidden in at least eight million computers, and the botnet of linked computers it had created was big enough that an attack might crash the world. In this "masterpiece" (The Philadelphia Inquirer), Mark Bowden expertly lays out a spellbinding tale of how hackers, researchers, millionaire Internet entrepreneurs, and computer security experts found themselves drawn into a battle between those determined to exploit the Internet and those committed to protecting it.

IBM Tivoli Change and Configuration Management Database (CCMDB) V7.2.1 Implementation GuideIBM Redbooks

The IBM® Tivoli® Change and Configuration Management Database (CCMDB) is one of the key components of the IBM Service Management (ISM) strategy. It is the foundation for automating and supporting change and configuration management processes as described by the Information Technology Infrastructure Library (ITIL®). These process solutions provide best practice implementations of processes based not only on ITIL, but on the IBM Process Reference Model for ITTM and other standards as well. This IBM Redbooks® publication provides information that can be used by clients, partners, or IBM field personnel who are looking to engage in an effort to implement change and configuration

management processes in an enterprise environment utilizing the IBM Tivoli Change and Configuration Management Database (CCMDB) V 7.2.1 product. It covers the new features available with CCMDB V7.2 and CCMDB V7.2.1, as well as details about the underlying components of the product and utilizing the product to support robust IT processes such as change and configuration management. It also focuses on the details of the data model, process engine, and the Change and Configuration management Process Management Programs (PMPs). This book provides a reference for IT Specialists and IT Architects working with the CCMDB V7.2.1 product.

De Sphaera of Johannes de Sacrobosco in the Early Modern Period

The Authors of the Commentaries

21 CFR Part 11

Implementing IBM Maximo for Service Providers

Python for Bioinformatics

This book is composed by the papers accepted for presentation and discussion at The 2019 International Conference on Information Technology & Systems (ICITS'20), held at the Universidad Distrital Francisco José de Caldas, in Bogotá, Colombia, on 5th to 7th February 2020. ICIST is a global forum for researchers and practitioners to present and discuss recent findings and innovations, current trends, professional experiences and challenges of modern information technology and systems research, together with their technological development and applications. The main topics covered are: information and knowledge management; organizational models and information systems; software and systems modelling; software systems, architectures, applications and tools; multimedia systems and applications; computer networks, mobility and pervasive systems; intelligent and decision support systems; big data analytics and applications; human–computer interaction; ethics, computers & security; health informatics; information technologies in education.

This volume provides experimental and bioinformatics approaches related to different aspects of gene expression analysis. Divided in three sections chapters detail wet-lab protocols, bioinformatics approaches, single-cell gene expression, highly multiplexed amplicon sequencing, multi-omics techniques, and targeted sequencing. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, Gene Expression Analysis: Methods and Protocols aims provide useful information to researchers worldwide.

This book presents an in-depth description of the Arrowhead Framework and how it fosters interoperability between IoT devices at service level, specifically addressing application. The Arrowhead Framework utilizes SOA technology and the concepts of loca clouds to provide required automation capabilities such as: real time control, security, scalability, and engineering simplicity. Arrowhead Framework supports the realization of collaborative automation; it is the only IoT Framework that addresses global interoperability across multiplet SOA technologies. With these features, the Arrowhead Framework enables the design, engineering, and operation of large automation systems for a wide range of applications utilizing IoT and CPS technologies. The book provides application examples from a wide number of industrial fields e.g. airline maintenance, mining maintenance, smart production, electro-mobility, automative test, smart cities—all in response to EU societal challenges. Features Covers the design and implementation of IoT based automation systems. Industrial usage of Internet of Things and Cyber Physical Systems made feasible through Arrowhead Framework. Functions as a design cookbook for building automation systems using IoT/CPS and Arrowhead Framework. Tools, templates, code etc. described in the book will be accessible through open sources project Arrowhead Framework Wiki at forge.soa4d.org/ Written by the leading experts in the European Union and around the globe.
Jython is an open source implementation of the high-level, dynamic, object-oriented scripting language Python seamlessly integrated with the Java platform. The predecessor to Jython, JPython, is certified as 100% Pure Java. Jython is freely available for both commercial and noncommercial use and is distributed with source code. Jython is complementary to Java. The Definitive Guide to Jython, written by the official Jython team leads, covers Jython 2.5 (or 2.5.x)—from the basics to more advanced feature This book begins with a brief introduction to the language and then journeys through Jython's different features and uses. The Definitive Guide to Jython is organized for beginners as well as advanced users of the language. The book provides a general overview of the Jython language itself, but it also includes intermediate and advanced topics regarding database, web, and graphical user interface (GUI) applications; Web services/SOA; and integration, concurrency, and parallelism, to name a few.
Motivational Design for Learning and Performance
The Definitive Guide to Jython
Level Up!
Migration Use Cases with the Migration Manager Version 7.5
IBM Tivoli Change and Configuration Management Database (CCMDB) V7.2.1 Implementation Guide

This IBM Redbooks publication provides an overview of the IBM Tivoli Asset Management for IT portfolio. The portfolio is made up of the three primary products, IBM Tivoli Asset Management for IT, IBM Tivoli License Compliance Manager for z/OS, and IBM Tivoli License Compliance Manager. By using these products together, you can implement a comprehensive IT asset management

solution. This book provides a functional overview of each of the products in the portfolio and also provides example scenarios of how they can be used to address IT asset management disciplines. The IBM Tivoli Asset Management for IT product is a relatively new acquisition. It has its roots in enterprise asset management and has very rich function. This product will be enhanced and adapted to provide functions specific to IT asset management, such as facilities to handle contract management, full asset life-cycle management, integration with Enterprise Resource Planning (ERP) solutions and much more. This book introduces the portfolio and describes its current capabilities. Our intention for the future is to provide additional materials for a deeper understanding of best practices for using the portfolio to implement a complete IT asset management solution.

An Introduction to Ontology Engineering introduces the student to a comprehensive overview of ontology engineering, and offers hands-on experience that illustrate the theory. The topics covered include: logic foundations for ontologies with languages and automated reasoning, developing good ontologies with methods and methodologies, the top-down approach with foundational ontologies, and the bottomup approach to extract content from legacy material, and a selection of advanced topics that includes Ontology-Based Data Access, the interaction between ontologies and natural languages, and advanced modelling with fuzzy and temporal ontologies. Each chapter contains review questions and exercises, and descriptions of two group assignments are provided as well. The textbook is aimed at advanced undergraduate/postgraduate level in computer science and could fi t a semester course in ontology engineering or a 2-week intensive course. Domain experts and philosophers may fi nd a subset of the chapters of interest, or work through the chapters in a different order. Maria Keet is an Associate Professor with the Department of Computer Science, University of Cape Town, South Africa. She received her PhD in Computer Science in 2008 at the KRDB Research Centre, Free University of Bozen-Bolzano, Italy. Her research focus is on knowledge engineering with ontologies and Ontology, and their interaction with natural language and conceptual data modelling, which has resulted in over 100 peer-reviewed publications. She has developed and taught multiple courses on ontology engineering and related courses at various universities since 2009.

Tivoli Integration Scenarios

Deployment Guide Series

Design Guidelines for Blood Centres

Proceedings of ICITS 2020
Arrowhead Framework