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Workflow design happens when you map out the sequential tasks involved to take an item from ‘initiated’ to ‘processed’. In the process of workflow design, you get a chance to see the entire process and how data moves seamlessly from step to step. Each task in the workflow should be assigned to either a single human, group of humans, or to a system.

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Chapter 1 Introduction -- Chapter 2 Literature Review and Problem Analysis -- Chapter 3 A Scientific Cloud Workflow System -- Chapter 4 Novel Probabilistic Temporal Framework -- Chapter 5 Forecasting Scientific Cloud Workflow Activity Duration Intervals -- Chapter 6 Temporal Constraint Setting -- Chapter 7 Temporal Checkpoint Selection and Temporal Verification -- Chapter 8 Temporal Violation Handling Point Selection -- Chapter 9 Temporal Violation Handling -- Chapter 10 Conclusions and Contribution Bibliography.

Provides information on responsive solutions to Web site design, covering such topics as wireframes, text, breakpoints, screenshots, browsers, and design manuals.

Focuses on how to use web service computing and service-based workflow technologies to develop timely, effective workflows for both business and scientific fields Utilizing web computing and Service-Oriented Architecture (SOA), Business and Scientific Workflows: A Web Service-Oriented Approach focuses on how to design, analyze, and deploy web service-based workflows for both business and scientific applications in many areas of healthcare and biomedicine. It also discusses and presents the recent research and development results. This informative reference features application scenarios that include healthcare and biomedical applications, such as personalized healthcare processing, DNA sequence data processing, and electrocardiogram wave analysis, and presents: Updated research and development results on the composition technologies of web services for ever-sophisticated service requirements from various users and communities Fundamental methods such as Petri nets and social network analysis to advance the theory and applications of workflow design and web service composition Practical and real applications of the developed theory and methods for such platforms as personalized healthcare and Biomedical Informatics Grids The authors' efforts on advancing service composition methods for both business and scientific software systems, with theoretical and empirical contributions With workflow-driven service composition and reuse being a hot topic in both academia and industry, this book is ideal for researchers, engineers, scientists, professionals, and students who work on service computing, software engineering, business and scientific workflow management, the internet, and management information systems (MIS).

This book offers a comprehensive introduction to workflow management, the management of business processes with information technology. By defining, analyzing, and redesigning an organization's resources and operations, workflow management systems ensure that the right information reaches the right person or computer application at the right time. The book provides a basic overview of workflow terminology and organization, as well as detailed coverage of workflow modeling with Petri nets. Because Petri nets make definitions easier to understand for nonexperts, they facilitate communication between designers and users. The book includes a chapter of case studies, review exercises, and a glossary. A special Web site developed by the authors, www.workflowcourse.com, features animation, interactive examples, lecture materials, exercises and solutions, relevant links, and other valuable resources for the classroom.

This book constitutes the refereed proceedings of nine international workshops held in Beijing, China, in conjunction with the 11th International Conference on Business Process Management, BPM 2013, in August 2013. The nine workshops comprised Business Process Intelligence (BPI 2013), Business Process Management and Social Software (BPMS2 2013), Data- and Artifact-Centric BPM (DAB 2013), Decision Mining and Modeling for Business Processes (DeMiMoP 2013), Emerging Topics in Business Process Management (ETBPM 2013), Process-Aware Logistics Systems (PALS 2013), Process Model Collections: Management and Reuse (PMC-MR 2013), Security in Business Processes (SBP 2013) and Theory and Applications of Process Visualization (TAProViz 2013). The 38 revised full papers presented were carefully reviewed and selected from 74 submissions.

This book constitutes the refereed proceedings of the First International Workshop on Process-Aware Systems, PAS 2014, held in Shanghai, China, in October 2014. The 5 revised full papers and 3 short papers were carefully reviewed and selected from 14 submissions. The papers are organized in topical sections on process modeling and comparison; workflow scheduling and resource allocation; scientific workflow verification; workflow applications.

This volume explores how context has been and can be used in computing to model human behaviors, actions and communications as well as to manage data and knowledge. It addresses context management and exploitation of context for sharing experience across domains. The book serves as a user-centric guide for readers wishing to develop context-based applications, as well as an intellectual reference on the concept of context. It provides a broad yet deep treatment of context in computing and related areas that depend heavily on computing. The coverage is broad because of its cross-disciplinary nature but treats topics at a sufficient depth to permit a reader to implement context in his/her computational endeavors. The volume addresses how context can be integrated in software and systems and how it can be used in a computing environment. Furthermore, the use of context to represent the human dimension, individually as well as collectively is explained. Contributions also include descriptions of how context has been represented in formal as well as non-formal, structured approaches. The last section describes several human behavior representation paradigms based on the concept of context as its central representational element. The depth and breadth of this content is certain to provide useful as well as intellectually enriching information to readers of diverse backgrounds who have an interest in or are intrigued by using context to assist in their representation of the real world.

In today's IT architectures, microservices and serverless functions play increasingly important roles in process automation. But how do you create meaningful, comprehensive, and connected business solutions when the individual components are decoupled and independent by design? Targeted at developers and architects, this book presents a framework through examples, practical advice, and use cases to help you design and automate complex processes. As systems are more distributed, asynchronous, and reactive, process automation requires state handling to deal with long-running interactions. Author Bernd Ruecker demonstrates how to leverage process automation technology like workflow engines to orchestrate software, humans, decisions, or bots. Learn how modern process automation compares to business process management, service-oriented architecture, batch processing, event streaming, and data pipeline solutions Understand how to use workflow engines and executable process models with BPMN Understand the difference between orchestration and choreography and how to balance both