

Cruise Control Documentation

Kafka in Action is a practical, hands-on guide to building Kafka-based data pipelines. Filled with real-world use cases and scenarios, this book probes Kafka's most common use cases, ranging from simple logging through managing streaming data systems for message routing, analytics, and more. In systems that handle big data, streaming data, or fast data, it's important to get your data pipelines right. Apache Kafka is a wicked-fast distributed streaming platform that operates as more than just a persistent log or a flexible message queue. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Learn to develop high-quality applications and frameworks in PHP Packed with in-depth information and step-by-step guidance, this book escorts you through the process of creating, maintaining and extending sustainable software of high quality with PHP. World-renowned PHP experts present real-world case studies for developing high-quality applications and frameworks in PHP that can easily be adapted to changing business requirements. . They offer different approaches to solving typical development and quality assurance problems that every developer needs to know and master. Details the process for creating high-quality PHP frameworks and applications that can easily be adapted to changing business requirements Covers the planning, execution, and automation of tests for the different layers and tiers of a Web application Demonstrates how to establish a successful development process Shares real-world case studies from well-known companies and their PHP experts With this book, you'll learn to develop high-quality PHP frameworks and applications that can easily be maintained with reasonable cost and effort.

Using modern examples, an insider's perspective, and an entertaining writing style, this resource is an easy-to-follow, one-of-a-kind consumer guide that prepares the 11,000,000+ annual cruise ship passengers and the 134 million excursion vessel passengers for a safe and positive on-the-water experience. 240 p p.

Proceedings of the Eurographics Workshop in Abingdon, UK, June 3-5, 1998

Maven

Open Source .NET Development

MTM & Robotics 2020

Market Analysis and Consumer Impacts Source Document: Review of motor vehicle market and consumer expenditures on motor vehicle transportation

New Advances in Mechanisms, Mechanical Transmissions and Robotics

This volume gathers the proceedings of the Joint International Conference of the XIII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIV International Conference on Robotics (Robotics), held in Timișoara, Romania. It addresses the applications of mechanisms and transmissions in several modern technical fields such as mechatronics, biomechanics, machines, micromachines, robotics and apparatus. In doing so, it combines theoretical findings and experimental testing. The book presents peer-reviewed papers written by researchers specialized in mechanism analysis and synthesis, dynamics of mechanisms and machines, mechanical transmissions, biomechanics, precision mechanics, mechatronics, micromechanisms and microactuators, computational and experimental methods, CAD in mechanism and machine design, mechanical design of robot architecture, parallel robots, mobile robots, micro and nano robots, sensors and actuators in robotics, intelligent control systems, biomedical engineering, teleoperation, haptics, and virtual reality.

Embedded software development is characterized by design issues involving time and resource constraints. An application-specific user interface complicates the process of developing such software using PC-based development environments. Reusing established best-practices is a useful method of dealing with such complexities. Design patterns are well-documented, time-tested solutions to classic design problems and capture significant domain knowledge. This thesis is concerned with the use of one such pattern collection suitable for building embedded systems with a time-triggered architecture. Traditionally, a practitioner wishing to incorporate design patterns into the software being developed would read the documentation and apply the suggested solution manually. More recently, code generators designed to automate the process of converting a pattern solution to source code, have been developed. In either approach, the example solution offered as part of the pattern documentation plays a key role in obtaining source code from the design pattern documentation. However, patterns contain a lot of other information which can contribute to the evaluation and application of the design pattern in a project. The research described here suggests a framework for the use of patterns for developing software. It recognises the fact that example implementations of patterns are well-used entities. The research focuses on the use of the remaining information, particularly pattern relationships available within the document, to support design space exploration activities. This process is illustrated using a simple cruise control system. In a bid to standardize the process of using design-specific information captured in the pattern documentation, this thesis describes an approach to formalise the pattern language. It suggests an approach based on the use of context-free grammars, to represent the natural language information held in the pattern documentation. It illustrates the use of the suggested approach using an elevator-based case study.

Early rules-based artificial intelligence demonstrated intriguing decision-making capabilities but lacked perception and didn't learn. AI today, primed with machine learning perception and deep reinforcement learning capabilities, can perform superhuman decision-making for specific tasks. This book shows you how to combine the practicality of early AI with deep learning capabilities and industrial control technologies to make robust decisions in the real world. Using concrete examples, minimal theory, and a proven architectural framework, author Kence Anderson demonstrates how to teach autonomous AI explicit skills and strategies. You'll learn when and how to use and combine various AI architecture design patterns, as well as how to design advanced AI without needing to manipulate neural networks or machine learning algorithms. Students, process operators, data scientists, machine learning algorithm experts, and engineers who own and manage industrial processes can use the methodology in this book to design autonomous AI. This book examines: Differences between and limitations of automated, autonomous, and human decision-making Unique advantages of autonomous AI for real-time decision-making, with use cases How to design an autonomous AI from modular components and

document your designs

Essential Modeling Techniques

Fundamentals of HVAC Control Systems

Views and Beyond

An Interface Guide

SMC XII

This festschrift volume, published in honor of Manfred Nagl on the occasion of his 65th birthday, contains 30 refereed contributions, that cover graph transformations, software architectures and reengineering, embedded systems engineering, and more.

There are laws of nature, so why shouldn't there be laws of Adaptive Cruise Control success? As Rita Barber notes, you can build an impressive airplane, but it will never leave the ground if you ignore the laws of physics, especially gravity. Why then shouldn't there also be laws of Adaptive Cruise Control that must be followed to launch and maintain Adaptive Cruise Control projects? In 'The Adaptive Cruise Control Handbook', Rita Barber offers a compendium of innovative rules for understanding and succeeding in the Adaptive Cruise Control marketplace. These valuable insights stand the test of time and present a clear path to successful Adaptive Cruise Control results. Violate them at your own risk. PLUS, INCLUDED with your purchase, are real-life document resources; this kit is available for instant download, giving you the tools to navigate and deliver on any Adaptive Cruise Control goal.

Provides information on the capabilities and subsystems of Ruby on Rails for the design and development of complex Web applications.

A Developer's Notebook

Expert .NET Delivery Using NAnt and CruiseControl.NET

Structured Development for Real-Time Systems, Vol. II

Digital and Document Examination

Intelligent Cruise Control Operational Test

Index of Specifications and Standards

Introduces the build tool for Java application development, covering both user defined and built-in tasks.

The Status Bar on the bottom of your Microsoft Excel application is a powerful and useful tool. Maximize your time by learning what each feature can do for you and how you can incorporate them into your daily routine. Learn about Cell Mode, Signatures, Information Management Policy, Permissions, Caps Lock, Scroll Lock, Fixed Decimal, Overtyping Mode, End Mode, Macro Recording, Selection Mode, Page Number, Average, Count, Numerical Count, Minimum, Maximum, Sum, View Shortcuts, Zoom, and Zoom Slider. How does each pertain to Excel's Status Bar? Take a look. Make Excel work harder for you so that you can become a greater asset to yourself and to your employer. Some of these functions will leave you accidentally impressive to many of your peers. So let's get started!

This book provides a comprehensive introduction into the SPES XT modeling framework. Moreover, it shows the applicability of the framework for the development of embedded systems in different industry domains and reports on the lessons learned. It also describes how the SPES XT modeling framework can be tailored to meet domain

and project-specific needs. The book is structured into four parts: Part I “Starting Situation” discusses the status quo of the development of embedded systems with specific focus on model-based engineering and summarizes key challenges emerging from industrial practice. Part II “Modeling Theory” introduces the SPES XT modeling framework and explains the core underlying principles. Part III “Application of the SPES XT Framework” describes the application of the SPES XT modeling framework and how it addresses major industrial challenges. Part IV “Evaluation and Technology Transfer” assess the impact of the SPES XT modeling framework and includes various exemplary applications from automation, automotive, and avionics. Overall, the SPES XT modeling framework offers a seamless model-based engineering approach. It addresses core challenges faced during the engineering of embedded systems. Among others, it offers aligned and integrated techniques for the early validation of engineering artefacts (including requirements and functional and technical designs), the management of product variants and their variability, modular safety assurance and deployment of embedded software.

Your Peace of Mind at Sea

InfoWorld

Professional Ruby on Rails

Cruise Control

Mastering Scale and Complexity in Software Reuse

Kafka in Action

Annotation This book provides a thorough introduction and a practical guide to the principles and characteristics of controls, and how to apply them in the use, selection, specification and design of control systems.

This study resolves the controversy over the stability of constant time-gap policy for highway traffic flow. Previous studies left doubt as to the effectiveness of constant time-gap policies and whether they maintain stability in all traffic conditions. The results of this study prove that the constant time gap policy is in fact stable to a limit. At this limit, depending on the boundary conditions, conditions lose their stability. This study develops alternative ways to maintain the balance between safety and traffic flow for ACC vehicles that does not rely on constant time-gap policies. New spacing policies will create more stability, and therefore safer conditions, and allow for greater traffic capacity.

Software architecture—the conceptual glue that holds every phase of a project together for its many stakeholders—is widely recognized as a critical element in modern software development. Practitioners have increasingly discovered that close attention to a software system’s architecture pays valuable dividends. Without an architecture that is appropriate for the problem being solved, a project will stumble along or, most likely, fail. Even with a superb architecture, if that architecture is not well understood or well communicated the project is

unlikely to succeed. Documenting Software Architectures, Second Edition, provides the most complete and current guidance, independent of language or notation, on how to capture an architecture in a commonly understandable form. Drawing on their extensive experience, the authors first help you decide what information to document, and then, with guidelines and examples (in various notations, including UML), show you how to express an architecture so that others can successfully build, use, and maintain a system from it. The book features rules for sound documentation, the goals and strategies of documentation, architectural views and styles, documentation for software interfaces and software behavior, and templates for capturing and organizing information to generate a coherent package. New and improved in this second edition: Coverage of architectural styles such as service-oriented architectures, multi-tier architectures, and data models Guidance for documentation in an Agile development environment Deeper treatment of documentation of rationale, reflecting best industrial practices Improved templates, reflecting years of use and feedback, and more documentation layout options A new, comprehensive example (available online), featuring documentation of a Web-based service-oriented system Reference guides for three important architecture documentation languages: UML, AADL, and SysML

Design, Specification and Verification of Interactive Systems '98

Proceedings

NASA Tech Briefs

The Java Developer's Guide to Accelerating and Automating the Build Process

The Adaptive Cruise Control Handbook - Everything You Need to Know about Adaptive Cruise Control

Designing Autonomous AI

Without a framework for organizing and codifying these ideas, systems modeling can become disjointed, frustrating, and ultimately ineffective. This book is extensively illustrated with detailed examples illuminating the main points discussed. Its four appendices provide fully worked examples of pertinent applications.

* Includes selection of patterns and anti-patterns to describe ideal environment success. * Looks in-depth at specific tools, and extensions of these tools. * Focuses on how projects are actually handled in real world—drawing on author's vast field experience. * Includes code examples like NAnt automation tasks, case studies, and facilitation utilities.

A guide to the project-comprehension tool covers such topics as generating a M report, publishing a project site, setting up a Continuous Integration environment and developing Maven plug-ins.

Automotive Control Systems

16th International Conference on Software Reuse, ICSR 2017, Salvador, Brazil, May 29-31, 2017, Proceedings

Extensions of the SPES 2020 Methodology

INTELLIGENT CRUISE CONTROL FIELD OPERATIONAL TEST

Microsoft Excel's Status Bar

Graph Transformations and Model-Driven Engineering

Course book introducing advanced control systems for vehicles, including advanced automotive concepts and the next generation of vehicles for ITS.

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

This book constitutes the refereed proceedings of the 16th International Conference on Software Reuse, ICSR 2017, held in Salvador, Brazil, in May 2017. The 8 revised full papers presented together with 3 short papers and 2 keynote presentations were carefully reviewed and selected from 34 submissions. The papers are grouped in topical sections on documentation reuse and repositories; software product lines; variability management and model variants; verification and refactoring for reuse; tools demonstrations; doctoral symposium; tutorials; and workshop.

Health Assessment Document for Diesel Emissions

IBM Rational ClearCase, Ant, and CruiseControl

100 Industrial-Strength Tips & Tools

Real-World Solutions for Developing High-Quality PHP Frameworks and Applications

Structured Development for Real-time Systems

PC Tech Journal

Does modelling, formal or otherwise, play a role in designing interactive systems? A proliferation of interactive devices and technologies is used in an ever increasing diversity of contexts and combinations in professional and every-day life. This development poses a significant challenge to modelling approaches used for the design of interactive systems. The papers in this volume discuss a range of modelling approaches, the representations they use, the strengths and weaknesses of their associated specification and analysis techniques and their role in supporting the design of interactive systems.

A guide to VMware Server covers such topics as installation, creating development base images, organizing image libraries, using VmCOM, and integrating VMServer into an existing environment.

"This report documents the performance of a front and side collision warning system (CWS) and adaptive cruise control (ACC) system, installed on a commercial vehicle. The data that supports this documentation originates from a series of standard characterization tests performed with a single Eaton VORAD EVT-300 unit installed on a Volvo VN 770 truck. The characterization addresses key performance aspects of the unit, both on its own and with the truck, including radar profile, front CWS, ACC, side CWS, and alert algorithm. During testing the unit issued specified alerts in relatively straightforward scenarios. Generally, the unit detected stopped, slow, and decelerating lead vehicles on straight sections of roadway, at ranges up to 438 feet, and issued the specified alerts. More complicated conditions, e.g., vehicles on a curve, often produced late or incorrect alerts. A series of ACC tests with slower lead vehicles resulted in the unloaded tractor and ACC unit accommodating, without driver intervention, a truck speed of 65 mph and a lead vehicle speed of 38 mph. A 65/29 mph speed pair required driver braking. The report addresses these and other topics in detail and includes an analysis of the envelope of opportunity (required braking levels and reaction times) provided by the front CWS alert algorithm."--Technical report documentation page.

Advanced Model-Based Engineering of Embedded Systems

Java Development with Ant

Essays Dedicated to Manfred Nagl on the Occasion of his 65th Birthday

PDF Hacks

Professional VMware Server

Adaptive Cruise Control System Design and Its Impact on Traffic Flow

IBM Rational ClearCase, Ant, and CruiseControlThe Java Developer's Guide to

Accelerating and Automating the Build Process Adobe Press

"No previous build experience is necessary: Lee thoroughly explains everything from configuring SCM environments and defining build scripts through to release packaging and deployment. He offers solutions and techniques for both Base ClearCase and Unified Change Management (UCM)-IBM Rational's best practice Software Configuration Management usage model. Key techniques are presented in real-world context, through a full-fledged three-tier application case study. Book jacket."--Jacket.

Shows readers how to create PDF documents that are far more powerful than simple representations of paper pages, helps them get around common PDF issues, and introduces them to tools that will allow them to manage content in PDF, navigating it and reusing it as necessary. Original. (Intermediate).

Documenting Software Architectures

Continuous Integration

Characterization Testing and Analysis of a Commercial Vehicle Front and Side Collision Warning System and Adaptive Cruise Control

A Case for Pattern-based Software Engineering

Provides information on .NET development in an open source environment.