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75B - CHRISTINE CAITLYN

In Unternehmen aller Art und Größe spielen betriebswirtschaftliche Anwendungssysteme oder Warenwirtschaftssysteme für die Bewältigung der aufkommenden Arbeiten eine zentrale Rolle. Für solche sogenannten ERP-Systeme (Enterprise Resource Planning Systeme) gibt es national und international eine Vielzahl an Anbietern. Eine ganz besondere Gruppe stellen die Open Source Systeme, also Systeme bei denen der Quelltext offen lesbar ist, dar. Diese besonderen Anwendungssysteme tauchen immer wieder aufgrund fehlender Lizenzkosten und absoluter Herstellerunabhängigkeit im zentralen Bewusstsein der IT-Entscheider auf. Um diesen Bereich objektiv zu durchleuchten wird in dieser Arbeit ein wissenschaftliches Konzept vorgestellt, das als Evaluationsschema die Anzahl der Systeme reduziert. Hierzu wird eine Methodik verwendet, die die Auswahl methodisch auf einige wenige Anbieter beschränkt. Insgesamt werden 85 Open Source ERP-Anbieter untersucht. Als Grundlage für die Evaluationen dienen dabei funktionale-technische und nichtfunktionale Anforderungen. Die funktional-technischen Anforderungen orientieren sich dabei an aktuellen Trends und Tendenzen moderner ERP-Systemanbieter auf Basis anderer wissenschaftlicher Ausarbeitungen und Studien. Nichtfunktionale Anforderungen dagegen werden in dieser Studie nach der gängigen ISO Norm zur Softwarequalität bestimmt. Zentraler Bestandteil der durchgeführten Evaluation ist dabei ein Anbieterverzeichnis, das im Laufe der Studie erstellt wurde. Dieses Verzeichnis enthält zusammenfassende lösungsneutrale Darstellungen und Informationen zu 38 aktuell relevanten Systemanbietern aus dem Bereich der Open Source ERP-Systeme. Demnach enthält es auch allgemeine, technische und funktionale Anforderungen und Trends. Die gewonnenen Informationen werden unter dem Aspekt der Leistungsfähigkeit und des

Einsatzgebietes mit anderen wissenschaftlichen Arbeiten gegenübergestellt und verglichen. Auf diese Weise konnte ein praktischer Nutzen dieser Systeme nachgewiesen und eine Empfehlung auf Basis entscheidender Gewichtungsfaktoren ermittelt werden.

"This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

This three-volume collection, titled Enterprise Information Systems: Concepts, Methodologies, Tools and Applications, provides a complete assessment of the latest developments in enterprise information systems research, including development, design, and emerging methodologies. Experts in the field cover all aspects of enterprise resource planning (ERP), e-commerce, and organizational, social and technological implications of enterprise information systems.

Business Information Systems: Concepts, Methodologies, Tools and Applications offers a complete view of current business information systems within organizations and the advancements that technology has provided to the business community. This four-volume reference uncovers how technological advancements have revolutionized financial transactions, management infrastructure, and knowledge workers.

Making Apps with Moqui is the official documentation for Moqui Framework and includes a comprehensive summary of Mantle Business Artifacts. Starting with basic concepts and a tutorial to try things right away, it builds to complete examples of end-to-end business processes including procure to pay, order to cash, and work plan to cash. The framework topics cover data and service tier tools, user and system interfaces, security, and performance. With dozens of diagrams and screen shots, and thousands of lines of code and configuration examples, this book gives you

ideas of what you can do with Moqui Framework and shows you how too. This includes things as simple as defining your data model with entities to more advanced things like building hierarchical data documents based on entity data and feeding them to other systems or indexing and searching the documents through simple configuration. Learn how to easily build remote and local services that handle validation, security, transaction management, and much more. Build screens quickly with a wide variety of dynamic widgets and forms styled any way you wish, or even define your own widgets to use consistently across your applications. Handle large scale and multi-tenant systems. Track your application use and performance. Implicitly handle multiple languages, currencies and other localization details. Control access to resources across all tiers through flexible authc and authz configuration. Written by the founder of Moqui and Mantle, and an enterprise application architect with 15 years of open source and commercial experience, this book provides the most accurate and useful information available for building modern enterprise applications with some of the best open source tools and technologies.

This book is about running modern industrial enterprises with the help of information systems. Enterprise resource planning (ERP) is the core of business information processing. An ERP system is the backbone of most companies' information systems landscape. All major business processes are handled with the help of this system. Supply chain management (SCM) looks beyond the individual company, taking into account that enterprises are increasingly concentrating on their core competencies, leaving other activities to suppliers. With the growing dependency on the partners, effective supply chains have become as important for a company's success as efficient in-house processes. This book covers typical business processes and shows how these processes are implemented. Examples are presented using the leading systems on the market

- SAP ERP and SAP SCM. In this way, the reader can understand how business processes are actually carried out "in the real world".

Over 60 simple but incredibly effective recipes for taking control of OFBiz.

Information systems (IS) are the backbone of any organization today, supporting all major business processes. This book deals with the question: how do these systems come into existence? It gives a comprehensive coverage of managerial, methodological and technological aspects including: Management decisions before and during IS development, acquisition and implementation Project management Requirements engineering and design using UML Implementation, testing and customization Software architecture and platforms Tool support (CASE tools, IDEs, collaboration tools) The book takes into account that for most organizations today, inhouse development is only one of several options to obtain an IS. A good deal of IS development has moved to software vendors - be it domestic, offshore or multinational software firms. Since an increasing share of this work is done in Asia, Eastern Europe, Latin America and Africa, the making of information systems is discussed within a global context.

This book constitutes the refereed proceedings of the 5th International Symposium on Engineering Secure Software and Systems, ESSoS 2013, held in Paris, France, in February/March 2013. The 13 revised full papers presented together with two idea papers were carefully reviewed and selected from 62 submissions. The papers are organized in topical sections on secure programming, policies, proving, formal methods, and analyzing.

Free/Open Source Enterprise Resource Planning systems (FOS-ERP) are gaining popularity and acceptance due to two main factors: their lack of licensing fees and customizability. Given this, organizations are able to easily adopt and manipulate these systems to meet their individual needs. Free and Open Source Enterprise Resource Planning: Systems and Strategies unites research on FOS-ERP, comparing differences with proprietary Enterprise Resource Planning products, and demonstrating key research factors. It includes cases demonstrating how small enterprises have benefited from FOS-ERP in Spain and in Belgium, along with difficulties encountered and solutions developed. This essential reference addresses key issues such as security and legal risks, as well as challenges, opportunities, and barriers to adoption.

"This work is a comprehensive, four-volume reference addressing major issues, trends, and areas for advancement in information management research, containing chapters investigating human factors in IT management, as well as IT governance, outsourcing, and diffusion"--Provided by publisher.

Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. This short, instruction-based guide shows you how to perform application integration using the industry standard Enterprise Integration Patterns. This book is intended for Java developers who are new to Apache Camel and message-oriented applications.

It is a pleasure to present the proceedings of the 22nd European Conference on Object-Oriented Programming (ECOOP 2008) held in Paphos, Cyprus. The conference continues to serve a broad object-oriented community with a technical program spanning theory and practice and a healthy mix of industrial and academic participants. This year a strong workshop and tutorial program complemented the main technical track. We had 13 workshops and 8 tutorials, as well as the co-located Dynamic Language Symposium (DLS). Finally, the program was rounded out with a keynote by Rachid Guerraoui and a banquet speech by James Noble. As in previous years, two Dahl-Nygaard awards were selected by AITO, and for the first time, the ECOOP Program Committee gave a best paper award. The proceedings include 27 papers selected from 138 submissions. The papers were reviewed in a single-blind process with three to five reviews per paper. Preliminary versions of the reviews were made available to the authors a week before the PC meeting to allow for short (500 words or less) author responses. The responses were discussed at the PC meeting and were instrumental in reaching decisions. The PC discussions followed Oscar Nierstrasz' Champion pattern. PC papers had five reviews and were held at a higher standard.

This book constitutes the refereed proceedings of the 15th International Conference on Model Driven Engineering Languages and Systems, MODELS 2012, held in Innsbruck, Austria, in September/October 2012. The 50 papers presented in this volume were carefully reviewed and selected from a total of 181 submissions. They are organized in topical sections named: metamodels and domain specific modeling; models at runtime; model management; modeling methods and tools, consistency analysis, software product lines; foundations of modeling; static analysis tech-

niques; model testing and simulation; model transformation; model matching, tracing and synchronization; modeling practices and experience; and model analysis.

Many SaaS providers nowadays want to leverage the cloud's capabilities also for their existing applications, for example, to enable sound scalability and cost-effectiveness. This thesis provides the approach CloudMIG that supports SaaS providers to migrate those applications to IaaS and PaaS-based cloud environments. CloudMIG consists of a step-by-step process and focuses on two core components. (1) Restrictions imposed by specific cloud environments (so-called cloud environment constraints (CECs)), such as a limited file system access or forbidden method calls, can be validated by an automatic conformance checking approach. (2) A cloud deployment option (CDO) determines which cloud environment, cloud resource types, deployment architecture, and runtime reconfiguration rules for exploiting a cloud's elasticity should be used. The implied performance and costs can differ in orders of magnitude. CDOs can be automatically optimized with the help of our simulation-based genetic algorithm CDOXplorer. Extensive lab experiments and an experiment in an industrial context show CloudMIG's applicability and the excellent performance of its two core components.

This book constitutes the refereed proceedings of the 8th European Conference on Modelling Foundations and Applications, held in Kgs. Lyngby, Denmark, in July 2012. The 20 revised full foundations track papers and 10 revised full applications track papers presented were carefully reviewed and selected from 81 submissions. Papers on all aspects of MDE were received, including topics such as architectural modelling and product lines, code generation, domain-specific modeling, metamodeling, model analysis and verification, model management, model transformation and simulation. The breadth of topics, as well as the high quality of the results presented in these accepted papers, demonstrate the maturity and vibrancy of the field.

OFBiz wird bereits seit vielen Jahren als Open Source-Lösung zum Download angeboten. Mit diesem Schnellstarterbuch in deutscher Sprache steht nun auch eine Benutzerbeschreibung für den Anwender zur Verfügung. In einem durchgängigen Beispiel wird OFBiz für den Einsatz als Webshop-Lösung konfiguriert. Nach der Einrichtung eines Lagers wird ein Produkt bei einem Lieferanten eingekauft und an einen Online-Kunden weiterverkauft. Das

gekauft Produkt kann auch wieder als Retoure zurückgeschickt werden. Anschaulich wird erklärt, wie Produkte aus Variationen und Kombinationen erstellt und verkauft werden können. Zu jedem Kaufprozess werden weiterhin die Buchhaltungsvorgänge aufgezeigt. Das Schnellstarterbuch gibt auch zahlreiche Vorschläge für Software-Anpassungen, um OFBiz für den deutschen Sprachraum und eine korrekte Berechnung der Mehrwertsteuer einzurichten.

The idea for this conference came from a meeting of the IFIP (International Federation for Information Processing) Technical Committee for Information Systems (TC8) in Guimares, Portugal in June 2005. Our goal is to build an IFIP forum among the different Information Systems Communities of TC8 dealing with the increasing important area of Enterprise Information Systems. In this particular meeting the committee members intensively discussed the innovative and unique characteristics of Enterprise Information Systems as scientific sub-discipline. Hence, in this meeting it was decided by the TC8 members that the IFIP TC8 First International Conference on Research and Practical Issues of Enterprise Information Systems (CONFENIS 2006) would be held in April 2006 in Vienna, Austria. Dr. Li Xu (USA) and Dr. A Min Tjoa (IFIP TC8) were assigned to propose a concept for this conference in order to establish an IFIP platform for EIS researchers and practitioners in the field to share experience, and discussing opportunities and challenges. We are very pleased therefore to have this conference organised by the help of the Austrian Computer Society (OCG). OCG supports the idea of this conference due to the urgent need of research and dissemination of new techniques in this key area. We received 180 papers from more than 30 countries for CONFENIS and the Program Committee eventually selected xx papers or extended abstracts, making an acceptance rate of xx% of submitted papers. Each paper was thoroughly reviewed by at least two qualified reviewers.

This book covers all aspects of OSWorkflow for Java developers and system architects, from basics of Business Process Management and installing OSWorkflow to developing complex Java applications and integrating this open-source Java workflow engine with the third-party components Drools for business rules, Quartz for task scheduling, and Pentaho for dashboards. Authored by an active developer of the OSWorkflow project, it gives step-by-step instructions, explaining the basics and clarifying and reinforcing

principles with real-life examples. OSWorkflow is a pure Java open-source workflow engine for technical users, who can focus on the business logic and rules without Petri Net or finite state machine coding and easily integrate OSWorkflow into applications to create simple or complex workflows as needed. Because OSWorkflow provides a relatively low-level but highly flexible workflow implementation for Java developers, it is not a quick plug-and-play solution for non-technical users.

This book includes a number of selected papers from the PRO-VE '07 Conference, providing a comprehensive overview of recent advances in various Collaborative Networks domains. It covers trust aspects, performance and value systems, VO breeding environments, VO creation, e-contracting, collaborative architectures and frameworks, professional virtual communities, interoperability issues, business benefits, and case studies and applications in industry and services.

"This book provides a comprehensive collection of research on current technological developments and organizational perspectives on the scale of small and medium enterprises"--Provided by publisher.

The Guide summarizes computer software for over 30 business areas. The best software packages for each area are presented in plain English. This book answers the question of What is available. Anyone starting a business will quickly see how to capitalize on these in business. Anyone already in business learns what packages can be added to improve an existing business. Choose an area of interest such as accounting, time tracking, shared calendars, payroll, HR, POS, cash registers, online storefront, ERP, project management, messaging, groupware, email servers, document management, workflow, remote desktops, remote file access, VPN, customer management, sales, CRM, audio-visual, attorneys, physicians, spreadsheets, word processors, computer telephones, contact managers, presentations, spam control, web servers, database systems, web sites, blogs, forums, and others. The reader gains immediate knowledge of what software can be used in business.

Open source software has emerged as a major field of scientific inquiry across a number of disciplines. When the concept of open source began to gain mindshare in the global business community, decision makers faced a challenge: to convert hype and potential into sustainable profit and viable business models. This vol-

ume addresses this challenge through presenting some of the newest, extensively peer-reviewed research in the area.

Despite the advances that have been made in programming, there is still a lack of sufficient methods for quality control. While code standards try to force programmers to follow a specific set of rules, few tools exist that really deal with automatic refactoring of this code, and evaluation of the coverage of these tests is still a challenge. Code Generation, Analysis Tools, and Testing for Quality is an essential reference source that discusses the generation and writing of computer programming and methods of quality control such as analysis and testing. Featuring research on topics such as programming languages, quality assessment, and automated development, this book is ideally designed for academicians, practitioners, computer science teachers, enterprise developers, and researchers seeking coverage on code auditing strategies and methods.

This is an accessible step-by-step tutorial that introduces readers to the world of OFBiz through practical examples and clear explanations. It will guide you through the framework, teach you to tweak OFBiz and master widgets, entities, and permissions, and give you the knowledge to customize your own bespoke applications. This book is for developers who want to build easily deployed and supported OFBiz applications. No previous knowledge of OFBiz is assumed, but readers should be comfortable in a Java development environment.

This volume presents the revised and peer reviewed contributions of the 'EPR Future 2014' conference held in Dornbirn/Austria on November 17-18th, 2014. The book assembles latest research and recent practice on enterprise information systems in general and specifically on core topics like business process management (BPM), business intelligence (BI) and enterprise resource planning (ERP) systems. To master the challenges of enterprise information systems comprehensively, this book contains chapters with a business as well as an IT focus to consider enterprise information systems from various viewpoints.

This book constitutes the refereed proceedings of the 10th International Conference on Model Driven Engineering Languages and Systems (formerly the UML series of conferences), MODELS 2007, held in Nashville, USA, September 30 - October 5, 2007. The 45 revised full papers were carefully reviewed and selected from 158 initial submissions. The papers are organized in topical sections.

HEMP is an agile approach to business analysis and system design for end users, project managers, business analysts, application designers, software architects, application developers, and quality assurance professionals. HEMP complements agile software development methodologies with an equally agile approach for gathering and documenting business requirements and producing system designs to drive application development that will meet the needs of end-user organizations. The practices and artifacts in HEMP are applicable for building new systems as well as customizing existing ones. HEMP is agnostic to programming languages and application frameworks so can be applied regardless of technology preference. This book includes case studies and numerous examples to help you understand the context of recommendations and how to apply them.

Local functional systems that create inefficient islands of information are being replaced by expensive enterprise-wide applications that unify the functional areas; however, while we have not yet been able to completely and seamlessly integrate across functions, we find that the new islands of information are no longer functional but political, cultural, linguistic, and geographical. The global village is a reality and enterprise resource planning (ERP) implementations face new issues and challenges. *Enterprise Resource Planning for Global Economies: Managerial Issues and Challenges* provides authoritative research on the theoretical frameworks and pragmatic discussions on global implementations of information systems, particularly ERP systems. This book offers professionals, managers, and researchers, who want to improve their understanding of the issues and challenges that arise when information systems cross national boundaries, with an authoritative, essential research resource.

"This 4-volume set provides a compendium of comprehensive advanced research articles written by an international collaboration of experts involved with the strategic use of information systems"--Provided by publisher.

This book constitutes the post conference proceedings of the 5th International IFIP Working Conference on Research and Practical Issues of Enterprise Information Systems (CONFENIS 2011), held in Aalborg, Denmark, October 16-18, 2011. The 12 papers presented in this volume were carefully reviewed and selected from 103 submissions. The papers are organized in four sections on conceptualizing enterprise information systems; emerging topics in enter-

prise information systems; enterprise information systems as a service; and new perspectives on enterprise information systems. These papers are complemented by two keynotes and a short summary of the co-located Workshop on Future Enterprise Information Systems using Lego Serious Games.

This book constitutes the refereed proceedings of the 11th International Conference on Model Driven Engineering Languages and Systems, MoDELS 2008, held in Toulouse, France, during September 28-October 3, 2008. The 58 revised full papers presented were carefully reviewed and selected from 271 submissions. The book also contains three keynote speeches and contributions to workshops, symposia, tutorials and panels at the conference. The papers are organized in topical sections on Model Transformation: Foundations; Requirements Modeling; Domain-Specific Modeling; Model Transformation: Techniques, Composition and Analysis of Behavioral Models; Model Comprehension; Model Management; Behavioral Conformance and Refinement; Metamodeling and Modularity; Constraints; Model Analysis; Service-Oriented Architectures; Adaptive and Autonomic Systems; Empirical Studies; Evolution and Reverse Engineering; Modeling Language Semantics; Dependability Analysis and Testing; Aspect-Oriented Modeling; Structural Modeling; and Embedded Systems.

Max Hoffmann describes the realization of a framework that enables autonomous decision-making in industrial manufacturing processes by means of multi-agent systems and the OPC UA meta-modeling standard. The integration of communication patterns and SOA with grown manufacturing systems enables an upgrade of legacy environments in terms of Industry 4.0 related technologies. The added value of the derived solutions are validated through an industrial use case and verified by the development of a demonstrator that includes elements of self-optimization through Machine Learning and communication with high-level planning systems such as ERP. About the Author: Dr.-Ing. Max Hoffmann is a scientific researcher at the Institute of Information Management in Mechanical Engineering, RWTH Aachen University, Germany, and leads the group "Industrial Big Data". His research emphasizes on production optimization by means of data integration through interoperability and communication standards for industrial manufacturing and integrated analysis by using Machine Learning and stream-based information processing.

This book contains a selection of refereed papers presented at the

"International Conference on Operations Research (OR 2011)" which took place at the University of Zurich from August 30 to September 2, 2011. The conference was jointly organized by the German speaking OR societies from Austria (ÖGOR), Germany (GOR) and Switzerland (SVOR) under the patronage of SVOR. More than 840 scientists and students from over 50 countries attended OR 2011 and presented 620 papers in 16 parallel topical streams, as well as special award sessions. The conference was designed according to the understanding of Operations Research as an interdisciplinary science focusing on modeling complex socio-technical systems to gain insight into behavior under interventions by decision makers. Dealing with "organized complexity" lies in the core of OR and designing useful support systems to master the challenge of system management in complex environment is the ultimate goal of our professional societies. To this end, algorithmic techniques and system modeling are two fundamental competences which are also well-balanced in these proceedings.

The design, development, and use of suitable enterprise resource planning systems continue play a significant role in ever-evolving business needs and environments. *Enterprise Resource Planning: Concepts, Methodologies, Tools, and Applications* presents research on the progress of ERP systems and their impact on changing business needs and evolving technology. This collection of research highlights a simple framework for identifying the critical factors of ERP implementation and statistical analysis to adopt its various concepts. Useful for industry leaders, practitioners, and researchers in the field.

The instability of today's economic climate calls for non-profit organizations to approach social problems in new and interesting ways, and Information and Communication Technologies may serve as an answer to this call. *ICT Management in Non-Profit Organizations* aims to explore the effective and comprehensive deployment of appropriate ICT strategies within the nonprofit sector. This innovative reference work will discuss how ICT enables the non-profit sector to achieve organizational efficiency, effectiveness, and, ultimately, self sufficiency, and will provide elected and appointed policymakers, managers, and planners in governments, public agencies, and nonprofit organizations with a comprehensive strategy for creating an ICT management agenda in the non-profit sector.

This book constitutes the refereed proceedings of the 7th European Conference on Modelling Foundations and Applications, held in Birmingham, UK, in June 2011. The 19 revised full foundations track papers and 5 revised full applications track papers presented were carefully reviewed and selected from 61 submissions; also included are 5 workshop summaries and abstracts of 4 tutorials. The papers are organized in topical sections on model execution, model analysis, methodology, model management, model

transformation, variability analysis and ADLs, and domain-specific modeling.

The pervasiveness of and universal access to modern Information and Communication Technologies has enabled a popular new paradigm in the dissemination of information, art, and ideas. Now, instead of relying on a finite number of content providers to control the flow of information, users can generate and disseminate

their own content for a wider audience. Open Source Technology: Concepts, Methodologies, Tools, and Applications investigates examples and methodologies in user-generated and freely-accessible content available through electronic and online media. With applications in education, government, entertainment, and more, the technologies explored in these volumes will provide a comprehensive reference for web designers, software developers, and practitioners in a wide variety of fields and disciplines.