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The Unified Modeling Language Apress

This book constitutes the refereed proceedings of the 6th International Conference on the Unified Modelling Language, UML 2003, held in San Francisco, CA, USA in October 2003. The 25 revised full papers, 4 tool papers, and 1 experience paper presented together with the abstracts of 3 invited talks and summaries on the UML 2003 workshop and tutorials were carefully reviewed and selected from initially 168 submissions. The papers are organized in topical sections on practical model management, time and quality of service, tools, composition and architecture, transformation, Web related issues, testing and validation, improving UML/OCL, consistency, and methodology.

InfoWorld Springer

The transformation of the economy being brought about by Industrie 4.0 is leading to the emergence of highly flexible value networks. Businesses now need to network their production activities both in-house and with the systems of external partners. This in turn requires new forms of cooperation, both nationally and globally. Common norms and standards enabling interoperability between different systems are equally essential. This acatech STUDY analyses the opportunities and challenges for businesses of international cooperation and the current competition to establish norms and standards. It is based on interviews and discussions with more than 150 experts from Germany, China, Japan, South Korea, the US and the UK. Detailed country profiles describe the background situation and Industrie 4.0 status quo in the focus countries. Finally, the study makes a number of recommendations for German actors regarding cooperation with international partners.

Security, Privacy and Trust in the IoT Environment Springer Nature

This book has a focus on the development and deployment of the Industrial Internet of Things (IIoT) paradigm, discussing frameworks, methodologies, benefits and limitations, as well as providing case studies of employing the IIoT vision in the industrial domain. IIoT is becoming an attractive business reality for many organisations such as manufacturing, logistics, oil and gas, energy and other utilities, mining, aviation, and many more. The opportunities for this paradigm are huge, and according to one report, the IIoT market is predicted to reach \$125 billion by 2021. The driving philosophy behind the IIoT is that smart machines are better than humans at accurately capturing, analysing and communicating real-time data. The underlying technologies include distributed computing, machine learning, artificial intelligence, and machine-to-machine communication, with a typical IIoT system consisting of intelligent systems (applications, controllers, sensors, and security mechanisms), data communication infrastructure (cloud computing, edge computing, etc.), data analytics (to support business intelligence and corporate decision making), and most importantly the human element. The promised benefits of the IIoT include enhanced safety, better reliability, smart metering, inventory management, equipment tracking, and facilities management. There are, however, numerous issues that are also becoming the focus of active research, such as concerns regarding service availability, data security, and device communication. Lack of ubiquitous interoperability between heterogeneous devices is also a major concern. This book intends to fill a gap in the IIoT literature by providing the scientific contributions and latest developments from researchers and practitioners of international repute, focusing on frameworks, methodologies, benefits, and inherent issues/barriers to connected environments, especially in industrial settings. The intended audience includes network specialists, hardware engineers, and security experts who wish to adopt newer approaches for device connectivity, IoT security, and sensor-based devices design. University level students, researchers and practitioners will also find the latest innovation in technology and newer approaches relevant to the IIoT from a distributed computing perspective.

Fundamental Approaches to Software Engineering Springer Nature

This proceedings volume gathers together selected peer-reviewed papers presented at the second edition of the XXVI International Joint Conference on Industrial Engineering and Operations Management (IJCIEOM), which was virtually held on February 22-24, 2021 with the main organization based at the Pontifical Catholic University of Rio de Janeiro, Brazil. Works cover a range of topics in industrial engineering, including operations and process management, global operations, managerial economics, data science and stochastic optimization, logistics and supply chain management, quality management, product development, strategy and organizational engineering, knowledge and information management, sustainability, and disaster management, to name a few. These topics broadly involve fields like operations, manufacturing, industrial and production engineering, and management. This book can be a valuable resource for researchers and practitioners in optimization research, operations research, and correlated fields.

The Digital Transformation of Logistics BoD – Books on Demand

This book presents 19 revised invited keynote lectures and revised tutorial lectures given at the 4th International Symposium on Formal Methods for Components and Objects, FMCO 2005, Amsterdam, November 2005. The book provides a unique combination of ideas on software engineering and formal methods that reflect the current interest in the application or development of formal methods for large scale software systems such as component-based systems and object systems.

Fundamental Approaches to Software Engineering Springer

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Security and Device Connectivity, Smart Environments, and Industry 4.0 Springer

This volume provides new conceptual insights to help organizations improve health and wellbeing in society. Some chapters do this by addressing macro-level change, some by highlighting evidence-based change at the micro level, and others by extending theory and integrating perspectives that heretofore have remained separate.

Industrial Engineering and Operations Management Springer Science & Business Media

This book constitutes the refereed proceedings of the Thyrrenian International Workshop on Digital Communication, IWDC 2001, held in Taormina, Italy in September 2001. The 46 revised full papers presented are a mix of invited papers and selected submitted papers and reflect the state of the art in multiservice IP network research and development. The book offers topical sections on WDM technologies for the next generation Internet, mobile and wireless Internet access, QoS in the next generation Internet, multicast and routing in IP networks, multimedia services over the Internet, performance of Internet protocols, dynamic service management, and source encoding and Internet applications.

The Internet of Things in the Industrial Sector Springer Nature

Eine nachhaltige und sichere Optimierung des maritimen Transportprozesses soll gemäß der International Maritime Organization (IMO) u.a. durch die Kopplung see- und landseitiger maritimer Systeme erfolgen. Ein erforderlicher harmonisierter Informationsaustausch zwischen existierenden und künftigen Systemen bzw. Systemkomponenten wird unter dem Begriff e-Navigation international vorangetrieben. Dabei soll nicht nur eine technische Interoperabilität zwischen den Systemen gewährleistet, sondern auch menschliche Nutzer und existierende Regularien berücksichtigt werden. Für die Unterstützung dieser Harmonisierung sowie für die Integration von Systemen in eine (bestehende) Systemumgebung muss eine umfassende Sicht auf die jeweiligen Systeme innerhalb des maritimen Kontexts aus verschiedenen technischen und nicht-technischen Perspektiven ermöglicht werden. Der in dieser Arbeit betrachtete Ansatz einer Entwicklung eines maritimen Architekturframeworks ermöglicht den Anwendern auf formale Art und Weise, die

Eigenschaften von Systemen zu erfassen. Auf dieser Basis können Architekturmodelle erstellt werden, die eine ganzheitliche Betrachtung des entsprechenden Systems innerhalb der maritimen Domäne und ihrer Merkmale ermöglicht. Im Zuge dessen unterstützt das entwickelte Prinzip verschiedene Betrachtungsmöglichkeiten zur Identifikation einer internen Konsistenz oder von Interoperabilitätsmerkmalen in und zwischen den betrachteten Systemen. Die vorgestellte Arbeit vereint Merkmale aus dem Systems Engineering, dem System of Systems Engineering sowie insbesondere aus dem Enterprise Architecture Management in einem Ansatz. Dieser beinhaltet die Entwicklung einer geeigneten Methodik zur Erfassung und Beschreibung einer Systemarchitektur sowie die Entwicklung einer Struktur zur Erstellung von Architekturmodellen unter Berücksichtigung maritimer Charakteristiken. Hinzu kommen weitere Aspekte, die im Rahmen der Arbeit Berücksichtigung finden. Dazu zählen sowohl ein Anforderungsmanagement als auch die Nutzung des Ansatzes für potentielle Analysen.

10th International Conference, BPM 2012, Tallinn, Estonia, September 3-6, 2012, Proceedings
Springer Science & Business Media

ETAPS 2005 was the eighth instance of the European Joint Conferences on Theory and Practice of Software. ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences. This year it comprised 7 conferences (CC, ESOP, FASE, FOSSACS, TACAS), 17 satellite workshops (AVIS, BYTECODE, CEES, CLASE, CMSB, COCV, FAC, FESCA, FINCO, GCW-DSE, GLPL, LDTA, QAPL, SC, SLAP, TGC, UITP), seven invited lectures (not including those that were specific to the satellite events), and several tutorials. We received over 550 submissions to the 7 conferences this year, giving acceptance rates below 30% for each one. Congratulations to all the authors who made it to the final program! I hope that most of the other authors still found a way of participating in this exciting event and I hope you will continue submitting. The events that comprise ETAPS address various aspects of the system development process, including specification, design, implementation, analysis and improvement. The languages, methodologies and tools which support these activities are all well within its scope. Different blends of theory and practice are represented, with an inclination towards theory with a practical motivation on the one hand and soundly based practice on the other. Many of the issues involved in software design apply to systems in general, including hardware systems, and the emphasis on software is not intended to be exclusive.

UML 2003 -- The Unified Modeling Language, Modeling Languages and Applications
Emerald Group Publishing

This tutorial volume originates from the 4th Advanced Course on Petri Nets, ACPN 2003, held in Eichstätt, Germany in September 2003. In addition to lectures given at ACPN 2003, additional chapters have been commissioned to give a well-balanced presentation of the state of the art in the area. This book will be useful as both a reference for those working in the area as well as a study book for the reader who is interested in an up-to-date overview of research and development in concurrent and distributed systems; of course, readers specifically interested in theoretical or applicational aspects of Petri nets will appreciate the book as well.

8th IFIP WG 5.5 International Precision Assembly Seminar, IPAS 2018, Chamonix, France, January 14–16, 2018, Revised Selected Papers Springer

Business innovation and industrial intelligence are paving the way for a future in which smart factories, intelligent machines, networked processes and Big Data are combined to foster industrial growth. The maturity and growth of instrumentation, monitoring and automation as key technology drivers support Industry 4.0 as a viable, competent and actionable business model. This book offers a primer, helping readers understand this paradigm shift from industry 1.0 to industry 4.0. The focus is on grasping the necessary pre-conditions, development & technological aspects that conceptually describe this transformation, along with the practices, models and real-time experience needed to achieve sustainable smart manufacturing technologies. The primary goal is to address significant questions of what, how and why in this context, such as: What is Industry 4.0? What is the current status of its implementation? What are the pillars of Industry 4.0? How can Industry 4.0 be effectively implemented? How are firms exploiting the Internet of Things (IoT), Big Data and other emerging technologies to improve their production and services? How can the implementation of Industry 4.0 be accelerated? How is Industry 4.0 changing the workplace landscape? Why is this melding of the virtual and physical world needed for smart production engineering environments? Why is smart production a game-changing new form of product design and manufacturing?

Technologies and Applications Springer Science & Business Media

This book constitutes the proceedings of the 10th International Conference on Business Process Management, BPM 2012, held in Tallinn, Estonia, in September 2012. The 17 regular papers and 7 short papers included in this volume were carefully reviewed and selected from 126 submissions. The book also features two keynote lectures which were given at the conference. The papers are

organized in topical sections named: process quality; conformance and compliance; BPM applications; process model analysis; BPM and the cloud; requirements and performance; process mining; and refactoring and optimization.

Proceedings of the ACM SIGSOFT '89 Assn for Computing Machinery
Directory is indexed by name (parent and subsidiary), geographic location, Standard Industrial Classification (SIC) Code, and corporate responsibility.
OECD Publishing

A comprehensive overview of the Internet of Things' core concepts, technologies, and applications Internet of Things A to Z offers a holistic approach to the Internet of Things (IoT) model. The Internet of Things refers to uniquely identifiable objects and their virtual representations in an Internet-like structure. Recently, there has been a rapid growth in research on IoT communications and networks, that confirms the scalability and broad reach of the core concepts. With contributions from a panel of international experts, the text offers insight into the ideas, technologies, and applications of this subject. The authors discuss recent developments in the field and the most current and emerging trends in IoT. In addition, the text is filled with examples of innovative applications and real-world case studies. Internet of Things A to Z fills the need for an up-to-date volume on the topic. This important book: Covers in great detail the core concepts, enabling technologies, and implications of the Internet of Things Addresses the business, social, and legal aspects of the Internet of Things Explores the critical topic of security and privacy challenges for both individuals and organizations Includes a discussion of advanced topics such as the need for standards and interoperability Contains contributions from an international group of experts in academia, industry, and research Written for ICT researchers, industry professionals, and lifetime IT learners as well as academics and students, Internet of Things A to Z provides a much-needed and comprehensive resource to this burgeoning field.

Software Architecture for Big Data and the Cloud John Wiley & Sons

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

Computerworld Springer

This book presents an in-depth historical and analytical review of the reform process in the Russian insurance sector.

8th International Conference, FASE 2005, Held as Part of the Joint European Conferences on Theory and Practice of Software, ETAPS 2005, Edinburgh, UK, April 4-8, 2005, Proceedings IGI Global

The proliferation of entrepreneurship, technological and business innovations, emerging social trends and lifestyles, employment patterns, and other developments in the global context involve creative destruction that transcends geographic and political boundaries and economic sectors and industries. This creates a need for an interdisciplinary exploration of disruptive technologies, their impacts, and their implications for various stakeholders widely ranging from government agencies to major corporations to consumer groups and individuals. *Disruptive Technology: Concepts, Methodologies, Tools, and Applications* is a vital reference source that examines innovation, imitation, and creative destruction as critical factors and agents of socio-economic growth and progress in the context of emerging challenges and opportunities for business development and strategic advantage. Highlighting a range of topics such as IT innovation, business strategy, and sustainability, this multi-volume book is ideally designed for entrepreneurs, business executives, business professionals, academicians, and researchers interested in strategic decision making using innovations and competitiveness.

17th ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications : Conference Proceedings : November 4-8, 2002, Washington State Convention and Trade Center, Seattle, Washington, USA Morgan Kaufmann

One of the most important issues businesses face is how to adapt to changing operational and administrative processes. Globalization and high competition highlight the importance of technological innovation and its contribution to the organizational performance of businesses.

Technological Developments in Industry 4.0 for Business Applications is a collection of innovative research on the methods and applications of developing new services related to industrial processes in order to improve organizational well-being. It also looks at the technological, organizational, and social aspects of Industry 4.0. Highlighting a range of topics including enterprise integration, logistic models, and supply chain, this book is ideally designed for computer engineers, managers, business and IT professionals, business researchers, and post-graduate students seeking current research on the evolution and development of business applications in the modern industry era.

Evolutionary Trends of the Internet Association for Computing Machinery (ACM)
Implementing Polytope Projects for Smart Systems Springer

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