Case Study Thingworx

This book disseminates the current trends among innovative and high-quality research regarding the implementation of conceptual frameworks, strategies, techniques, methodologies, informatics platforms and models for developing advanced industrial tools and techniques and their application in different fields. It presents a collection of theoretical, real-world and original research works in the field of applied industrial tools and techniques. The text goes beyond the state-of-the-art in the field of industrial and software engineering, listing successful applications and use cases of studies of new approaches, applications, methods, techniques for developing advanced industrial tools, methodologies and techniques and their application in different fields. The topics covered in this book are of interest to academics, researchers, students, stakeholders and consultants.

Developed at UC Berkeley more than two decades ago, SPICE software is the tool of choice for performing nominal analysis for electronic circuits. However, attempts to use SPICE for worst-case analysis (WCA) reveal several shortcomings, including: a 400-sample limit for Monte Carlo Analysis (MCA); lack of Rot-Sum-Square (RSS) analysis, asymmetric component tolerances, Fast MCA, or AC sensitivity capability; no single-run method of tolerancing inputs; and no predefined beta (skewed) or bimodal (gapped) distributions for MCA. While several commercial versions of SPICE may have corrected some of these limitations, they still remain rather expensive. Based on extensive experience in WCA, Node List Tolerance Analysis: Enhancing SPICE Capabilities with Mathcad presents software methods that overcome the many limitations of SPICE WCA using less expensive tools. The author demonstrates correct and incorrect methods of extreme value analysis, demonstrates the necessity of tolerancing multiple inputs, and provides output histograms for unusual inputs. He also shows how to detect non-monotonic components, which cause severe errors in all WCA methods except MCA. The book also includes demonstrations of tolerance analysis of three-phase AC circuits. Node List Tolerance Analysis: Enhancing SPICE Capabilities with Mathcad requires no circuit analysis mathematics, supplying original methods of nominal circuit analysis using node lists. It is ideal for performing effective analyses while adhering to a budget. Continuous improvements in digitized practices have created opportunities for businesses to develop more streamlined processes. This not only leads to higher success in day-to-day production, but it also increases the overall success of businesses. E-Manufacturing and E-Service Strategies in Contemporary Organizations is a critical scholarly resource that explores the advances in cloud-based solutions in the service and manufacturing realms of corporations and promotes communication between customers and service providers and manufacturers. Featuring coverage on a wide range of topics including smart manufacturing, internet banking, database system adoption, this book is geared

towards researchers, professionals, managers, and academicians seeking current and relevant research on the improvement of cloud-based systems for manufacturing and service.

With the increasing worldwide trend in population migration into urban centers, we are beginning to see the emergence of the kinds of mega-cities which were once the stuff of science fiction. It is clear to most urban planners and developers that accommodating the needs of the tens of millions of inhabitants of those megalopolises in an orderly and uninterrupted manner will require the seamless integration of and real-time monitoring and response services for public utilities and transportation systems. Part speculative look into the future of the world's urban centers, part technical blueprint, this visionary book helps lay the groundwork for the communication networks and services on which tomorrow's "smart cities" will run. Written by a uniquely well-qualified author team, this book provides detailed insights into the technical requirements for the wireless sensor and actuator networks required to make smart cities a reality.

This book constitutes the refereed proceedings of the 18th IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2017, held in Vicenza, Italy, in September 2017. The 68 revised full papers were carefully reviewed and selected from 159 submissions. They provide a comprehensive overview of identified challenges and recent advances in various collaborative network (CN) domains and their applications, with a strong focus on the following areas: collaborative models, platforms and systems for data-rich worlds; manufacturing ecosystem and collaboration in Industry 4.0; big data analytics and intelligence; risk, performance, and uncertainty in collaborative data-rich systems; semantic data/service discovery, retrieval, and composition in a collaborative data-rich world; trust and sustainability analysis in collaborative networks; value creation and social impact of collaboration in data-rich worlds; technology development platforms supporting collaborative systems; collective intelligence and collaboration in advanced/emerging applications: collaborative manufacturing and factories of the future, e-health and care, food and agribusiness, and crisis/disaster management.

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.

Grab the top spot in your industry by seizing the power of IoT Smart products are everywhere. They're in our companies, in our homes, in our pockets. People love these products. But what they love more is what these products do—and for anyone running a business today, outcomes are the key. The Internet of Things (IoT) is the point of connection between products and the results they deliver—it's where products become software. IoT Inc. explains everything you need to know to position your company within this powerful new network. And once you do, you'll leave the competition in the dust. Founder and president of today's leading IoT business consulting firm, Bruce Sinclair has been helping companies develop IoT strategies for a decade—far longer than the term has even existed. This essential guide provides an in-depth look into IoT—how it works and how it is transforming business; methods for seeing your own business, customers, and competitors through the lens of IoT, and a deep dive into how to develop and implement a powerful IoT strategy. IoT isn't a new business trend. It's the new way of business. Period. The IoT wave is heading for your industry. You can either meet it head-on, and ride it to success, or you can turn your back and let it swamp you. This is your playbook for transforming your company into a major player in the IoT Outcome economy.

This book constitutes the proceedings of the 8th International Workshop on Design, Modeling, and Evaluation of Cyber Physical Systems, CyPhy 2018 and 14th International Workshop on Embedded and Cyber-Physical Systems Education, WESE 2018, held in conjunction with ESWeek 2018, in Torino, Italy, in October 2018.The 13 full papers presented together with 1 short paper in this volume were carefully reviewed and selected from 18 submissions. The conference presents a wide range of domains including Modeling, simulation, verification, design, cyber-physical systems, embedded systems, real-time systems, safety, and reliability.

Gathering the Proceedings of the 2018 Intelligent Systems Conference (IntelliSys 2018), this book offers a remarkable collection of chapters covering a wide range of topics in intelligent systems and computing, and their real-world applications. The Conference attracted a total of 568 submissions from pioneering researchers, scientists, industrial engineers, and students from all around the world. These submissions underwent a double-blind peer review process, after which 194 (including 13 poster papers) were selected to be included in these proceedings. As intelligent systems continue to replace and sometimes outperform human intelligence in decision-making processes, they have made it possible to tackle many problems more effectively. This branching out of computational intelligence in several directions, and the use of intelligent systems in everyday applications, have created the need for such an international conference, which serves as a venue for reporting on cutting-edge innovations and developments. This book collects both theory and application-based chapters on all aspects of artificial intelligence, from classical to intelligent scope.

Readers are sure to find the book both interesting and valuable, as it presents state-of-the-art intelligent methods and techniques for solving real-world problems, along with a vision of future research directions.

Timothy Kaufmann beschreibt verschiedene Geschäftsmodelle, Kundenbeispiele und geeignete Werkzeuge für die Umsetzung von Industrie 4.0 und dem Internet der Dinge, die schon heute große Chancen für neue Geschäftsmodelle und die Optimierung von bestehenden bieten. Das vorliegende Essential soll Sie ermutigen, sich jetzt auf den Weg zu begeben!

This book constitutes the refereed post-conference proceedings of the 15th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2018, held in Turin, Spain, in July 2018. The 72 revised full papers presented were carefully reviewed and selected from 82 submissions. The papers are organized in the following topical sections: building information modeling; collaborative environments and new product development; PLM for digital factories and cyber physical systems; ontologies and data models; education in the field of industry 4.0; product-service systems and smart products; lean organization for industry 4.0; knowledge management and information sharing; PLM infrastructure and implementation; PLM maturity, implementation and adoption; 3D printing and additive manufacturing; and modular design and products and configuration and change management.

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This book constitutes the refereed proceedings of the 13th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2016, held in Columbia, SC, USA, in July 2016. The 57 revised full papers presented were carefully reviewed and selected from 77 submissions. The papers are organized in the following topical sections: knowledge sharing, re-use and preservation; collaborative development architectures; interoperability and systems integration; lean product development and the role of PLM; PLM and innovation; PLM tools; cloud computing and PLM tools; traceability and performance; building information modeling; big data analytics and business intelligence; information lifecycle management; industry 4.0; metrics, standards and regulation; and product, service and systems.

This book constitutes the refereed post-conference proceedings of the 14th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2017, held in Seville, Spain, in July 2017. The 64 revised full papers presented were carefully reviewed and selected from 78 submissions. The papers are organized in the following topical sections: PLM maturity, implementation and adoption;

PLM for digital factories; PLM and process simulation; PLM, CAX and knowledge management; PLM and education; BIM; cyber-physical systems; modular design and products; new product development; ontologies, knowledge and data models; and Product, Service, Systems (PSS).

Harnessing the power of software platforms: what executives and entrepreneurs must know about how to use this technology to transform industries and how to develop the strategies that will create value and drive profits. Software platforms are the invisible engines that have created, touched, or transformed nearly every major industry for the past quarter century. They power everything from mobile phones and automobile navigation systems to search engines and web portals. They have been the source of enormous value to consumers and helped some entrepreneurs build great fortunes. And they are likely to drive change that will dwarf the business and technology revolution we have seen to this point. Invisible Engines examines the business dynamics and strategies used by firms that recognize the transformative power unleashed by this new revolution—a revolution that will change both new and old industries. The authors argue that in order to understand the successes of software platforms, we must first understand their role as a technological meeting ground where application developers and end users converge. Apple, Microsoft, and Google, for example, charge developers little or nothing for using their platforms and make most of their money from end users; Sony PlayStation and other game consoles, by contrast, subsidize users and make more money from developers, who pay royalties for access to the code they need to write games. More applications attract more users, and more users attract more applications. And more applications and more users lead to more profits. Invisible Engines explores this story through the lens of the companies that have mastered this platform-balancing act. It offers detailed studies of the personal computer, video game console, personal digital assistant, smart mobile phone, and digital media software platform industries, focusing on the business decisions made by industry players to drive profits and stay a step ahead of the competition. Shorter discussions of Internet-based software platforms provide an important glimpse into a future in which the way we buy, pay, watch, listen, learn, and communicate will change forever. An electronic version of this book is available under a Creative Commons license.

This book constitutes the joint refereed proceedings of the 15th International Conference on Next Generation Wired/Wireless Advanced Networks and Systems, NEW2AN 2015, and the 8th Conference on Internet of Things and Smart Spaces, ruSMART 2015, held in St. Petersburg, Russia, in August 2015. The 74 revised full papers were carefully reviewed and selected from numerous submissions. The 15 papers selected for ruSMART are organized in topical sections on IoT infrastructure, IoT platforms, smart spaces and IoT cases, and smart services and solutions. The 59 papers from NEW2AN deal with the following topics: streaming, video, and TCP applications, mobile "ad hoc" networks, security, and clouds, sensor networks and IoT, cellular systems, novel systems and techniques, business and services, signals and circuits, optical and satellite systems, and advanced materials and their properties. Internet of Things emphasizes on the efficient use of internet and wireless network for connecting devices in day to day life. It gives a step-by-step explanation of the connecting interface of hardware with software. This classic text is a vital study guide

for the students to master their IoT skills. Salient Features: - Core concepts of hardware and software for Internet of Things - Coverage of latest concepts like RaspberyPi, Arduino - Coverage of Security and threats in IoT scenarios. - Step by step pro typing and designing of IoT Applications

This handbook covers recent advances in the integration of three areas, namely, cloud computing, cyber-physical systems, and the Internet of things which is expected to have a tremendous impact on our daily lives. It contains a total of thirteen peer-reviewed and edited chapters. This book covers topics such as context-aware cyber-physical systems, sustainable cloud computing, fog computing, and cloud monitoring; both the theoretical and practical aspects belonging to these topics are discussed. All the chapters also discuss open research challenges in the areas mentioned above. Finally, the handbook presents three use cases regarding healthcare, smart buildings and disaster management to assist the audience in understanding how to develop next-generation IoT- and cloud-enabled cyber-physical systems. This timely handbook is edited for students, researchers, as well as professionals who are interested in the rapidly growing fields of cloud computing, cyber-physical systems, and the Internet of things.

Internet 2.0 (previously called the Internet of Things) presents a tantalizing vision of bridging the cyber and physical worlds to forge a seamless planet-wide infrastructure in which cyber resources and physical objects can interact without human intervention. The technology needed to build the infrastructure already exists. However, more than a decade after the vision of Internet 2.0 was articulated, it remains largely unrealized except in isolated settings. Following a background discussion, Design and Construction of an RFID-enabled Infrastructure: the Next Avatar of the Internet addresses three questions: what are the barriers to the emergence of Internet 2.0 as a global infrastructure? What are the features that Internet 2.0 architecture must have if it is to become a successful global infrastructure?How can one build a prototype of Internet 2.0? The quest for answers to the above questions threads the narrative through the birthing process and maturation of two successful global infrastructures—the Internet and the web. Based on a review of the design philosophies underlying the Internet and the Web, their histories and the strategic stewardship that midwifed their births, the book presents the architectural guidelines for the Internet 2.0 infrastructure as well as a blueprint for the construction of its prototype. The discussion in the book is consolidated into a list of technical and strategic guidelines intended to facilitate the incubation of Internet 2.0.

Increase the value of your companies by seizing the true power of digital transformation The Tesla Model S. The Uber aggregator business model. The Amazon bookstore. What do they all have in common? They're all smart. Smart products, smart business models and smart services created by data-driven tech companies that have dominated their industries and produced outsized returns for their investors. Now the high technology of digital transformation has matured to enable any traditional company to increase its competitiveness and growth profile by developing tech-facilitated business models and other intangible assets. A digitally transformed company uses data to increase its sales through innovation and invention, to increase its margins through operational efficiency and to increase its valuation multiple through the digital rerate. Founder and principle consultant of today's leading digital operating partners firm,

Bruce Sinclair has been helping companies digitally transform for almost a decade, first as an independent consultant and then as an operating partner for a middle-market private equity firm. Whereas his first book, IoT Inc, is the gold standard business book for leadership in enterprises, this book applies those lessons for value creation in private equity. Digital transformation is leading to structural changes in all industries, and associated with any such changes are investment opportunities. Not just by betting on smart companies, but by buying companies and making them smart. This is your playbook to seizing the true power of digital transformation for your portfolio companies. There are numerous publications which introduce and discuss the Internet of Things (IoT). In the midst of these, this work has several unique characteristics which should change the reader's perspective, and in particular, provide a more profound understanding of the impact of the IoT on society. Dependable IoT for Human and Industry covers the main aspects of Internet of Things and IoT based systems such as global issues of applications, modeling, development and implementation of dependable IoT for different human and industry domains. Technical topics discussed in the book include: Introduction in Internet of vital and trust ThingsModelling and assessment techniques for dependable and secure IoT systemsArchitecting and development of IoT systemsImplementation of IoT for smart cities and drone fleets; business and blockchain, transport and industryTraining courses and education experience on Internet and Web of Thing

This book comprehensively conveys the theoretical and practical aspects of IoT and big data analytics with the solid contributions from practitioners as well as academicians. This book examines and expounds the unique capabilities of the big data analytics platforms in capturing, cleansing and crunching IoT device/sensor data in order to extricate actionable insights. A number of experimental case studies and real-world scenarios are incorporated in this book in order to instigate our book readers. This book Analyzes current research and development in the domains of IoT and big data analytics Gives an overview of latest trends and transitions happening in the IoT data analytics space Illustrates the various platforms, processes, patterns, and practices for simplifying and streamlining IoT data analytics The Internet of Things and Big Data Analytics: Integrated Platforms and Industry Use Cases examines and accentuates how the multiple challenges at the cusp of IoT and big data can be fully met. The device ecosystem is growing steadily. It is forecast that there will be billions of connected devices in the years to come. When these IoT devices, resource-constrained as well as resource-intensive, interact with one another locally and remotely, the amount of multi-structured data generated, collected, and stored is bound to grow exponentially. Another prominent trend is the integration of IoT devices with cloud-based applications, services, infrastructures, middleware solutions, and databases. This book examines the pioneering technologies and tools emerging and evolving in order to collect, pre-process, store, process and analyze data heaps in order to disentangle actionable insights.

This thesis is focusing on three little-explored contextual conditions that are important for a better understanding of digital platform ecosystems: digital platforms in a nascent stage of maturity, digital platforms built by incumbents, and digital platforms embedded in the IoT phenomenon. Thus, the thesis contributes to the question of how established companies navigating nascent digital platform ecosystems in the IoT. The work builds and contributes to the literature on digital platform ecosystems. Three main contributions are made through explorative qualitative research in the form of Delphi and case studies as well as through systematic literature research on the above-mentioned themes: First, the thesis synthesizes important knowledge about the nascent stage of digital platform ecosystems and identifies

value co-creation challenges specific to this early maturity stage. Second, given the increasing importance of established companies in the platform discourse, this thesis identifies the intra- and inter-organizational challenges that incumbent organizations face in building digital platform ecosystems, emphasizing the importance of the organizational type in building a platform ecosystem. Third, the dissertation positions platforms in the IoT as a new digital platform instantiation within the scholarly platform discourse and outlines important phoneme-related characteristics that determine value creation.

This book, gathering the Proceedings of the 2018 Computing Conference, offers a remarkable collection of chapters covering a wide range of topics in intelligent systems, computing and their real-world applications. The Conference attracted a total of 568 submissions from pioneering researchers, scientists, industrial engineers, and students from all around the world. These submissions underwent a double-blind peer review process. Of those 568 submissions, 192 submissions (including 14 poster papers) were selected for inclusion in these proceedings. Despite computer science's comparatively brief history as a formal academic discipline, it has made a number of fundamental contributions to science and society—in fact, along with electronics, it is a founding science of the current epoch of human history ('the Information Age') and a main driver of the Information Revolution. The goal of this conference is to provide a platform for researchers to present fundamental contributions, and to be a premier venue for academic and industry practitioners to share new ideas and development experiences. This book collects state of the art chapters on all aspects of Computer Science, from classical to intelligent. It covers both the theory and applications of the latest computer technologies and methodologies. Providing the state of the art in intelligent methods and techniques for solving real-world problems, along with a vision of future research, the book will be interesting and valuable for a broad readership.

Industry 4.0 is a challenge for today's businesses. It's a concept that encompasses the technological innovations of automation, control, and information technology, as it's applied to manufacturing processes. It's a new topic that recently emerged in academia and industry, with few books that target both management and engineering. This book will cover the new advances and the way to manage competitive organizations. The chapters will include terms of theory, evidence, and/or methodology, and significantly advance social scientific research. This book: Focuses on the latest and most recent research findings occurring on the topic of Industry 4.0 Presents the ways companies around the world are facing today's technological challenges Assists researchers and practitioners in selecting the correct options and strategies to manage competitive organizations Provides recent advances in international studies Encompasses the main technological innovations in the fields of automation, control, and information technology applied to the manufacturing processes Industry 4.0: Challenges, Trends, and Solutions in Manangment and Engineering is designed to increase the knowledge and effectiveness of all managers and engineers in all organizations and activity sectors Carolina Machado has been teaching in the Human Resources Management subjects since 1989 at University of Minho, Portugal. She has been an associate professor since 2004, with experience and research interest areas in the field of Human Resource Management, International Human Resource Management, Human Resource Management in SMEs, Training and Development, Emotional Intelligence, Management Change, Knowledge Management, and Management/HRM in the Digital Age. She is head of the Department of Management and head of the Human Resources Management Work Group at University of Minho, as well as chief editor of the International Journal of Applied Management Sciences and Engineering (IJAMSE). J. Paulo Davim is a professor at the Department of Mechanical Engineering of the University of Aveiro, Portugal. He has more than 30 years of teaching and research experience in Manufacturing, Materials, Mechanical, and Industrial Engineering, with special emphasis in Machining & Tribology. He has also interest in Management, Engineering

Education, and Higher Education for Sustainability. He has worked as evaluator of projects for ERC (European Research Council) and other international research agencies.

This book discusses online engineering and virtual instrumentation, typical working areas for today's engineers and inseparably connected with areas such as Internet of Things, cyber-physical systems, collaborative networks and grids, cyber cloud technologies, and service architectures, to name just a few. It presents the outcomes of the 14th International Conference on Remote Engineering and Virtual Instrumentation (REV2017), held at Columbia University in New York from 15 to 17 March 2017. The conference addressed fundamentals, applications and experiences in the field of online engineering and virtual instrumentation in the light of growing interest in and need for teleworking, remote services and collaborative working environments as a result of the globalization of education. The book also discusses guidelines for education in university-level courses for these topics.

The Mood Elevator Take Charge of Your Feelings, Become a Better You We all ride the Mood Elevator up and down every day. How well we do it impacts our relationship, our personal effectiveness, our career and our experience of life. Most people take that ride for granted and don't think it can be influenced. But what if we knew the right buttons to push to move to the top of the Mood Elevator. Wouldn't it be useful if there were proven ways to make visits to the lower floors less frequent and less intense? In this very practical guide, Larry Senn provides an operating manual to keep you out of the emotional basement. He shows how to recognize when you've become so accustomed to being stuck on a lower floor—depressed, stressed, anxious, judgmental—you don't even realize it and what to do to interrupt those negative thought patterns and start going up again. He urges us to cultivate mental attitudes like curiosity and gratitude that will keep us on the higher floors and explains how to quiet the mind and nurture positive thoughts without succumbing to Pollyannaish denial. And as someone who took up triathalons at the age of seventy, he speaks from experience when he emphasizes the inseparable connection between physical health and mental health. Through Senn's decades of work as a consultant, the Mood Elevator has been enthusiastically embraced by hundreds of thousands of people around the world. It symbolizes our moment-to-moment experience of life, encompassing a wide range of feelings. Together, these emotions play a major role in defining the quality of our lives and relationships and our effectiveness on the job. By sharing his work with a wider audience, Senn hopes to help all of us live life at our best.

This book relates research being implemented in three main research areas: secure connectivity and intelligent systems, real-time analytics and manufacturing knowledge and virtual manufacturing. Manufacturing SMEs and MNCs want to see how Industry 4.0 is implemented. On the other hand, groundbreaking research on this topic is constantly growing. For the aforesaid reason, the Singapore Agency for Science, Technology and Research (A*STAR), has created the model factory initiative. In the model factory, manufacturers, technology providers and the broader industry can (i) learn how I4.0 technologies are implemented on real-world manufacturing use-cases, (ii) test process improvements enabled by such technologies at the model factory facility, without disrupting their own operations, (iii) co-develop technology solutions and (iv) support the adoption of solutions at their everyday industrial operation. The book constitutes a clear base ground not only for inspiration of researchers, but also for companies who will want to adopt smart manufacturing approaches coming from Industry 4.0 in their pathway to digitization.

This book offers the latest research and new perspectives on Interactive Collaborative Learning and Engineering Pedagogy. We are currently witnessing a significant transformation in education, and in order to face today's real-world challenges, higher education has to find innovative ways to quickly respond to these new needs. Addressing these aspects was the chief aim of the 21st International Conference on

Interactive Collaborative Learning (ICL2018), which was held on Kos Island, Greece from September 25 to 28, 2018. Since being founded in 1998, the conference has been devoted to new approaches in learning, with a special focus on collaborative learning. Today the ICL conferences offer a forum for exchanging information on relevant trends and research results, as well as sharing practical experiences in learning and engineering pedagogy. This book includes papers in the fields of: * Collaborative Learning * Computer Aided Language Learning (CALL) * Educational Virtual Environments * Engineering Pedagogy Education * Game based Learning * K-12 and Pre-College Programs * Mobile Learning Environments: Applications It will benefit a broad readership, including policymakers, educators, researchers in pedagogy and learning theory, school teachers, the learning industry, further education lecturers, etc. As more and more devices become interconnected through the Internet of Things (IoT), there is an even greater need for this book,which explains the technology, the internetworking, and applications that are making IoT an everyday reality. The book begins with a discussion of IoT "ecosystems" and the technology that enables them, which includes: Wireless Infrastructure and Service Discovery Protocols Integration Technologies and Tools Application and Analytics Enablement Platforms A chapter on next-generation cloud infrastructure explains hosting IoT platforms and applications. A chapter on data analytics throws light on IoT data collection, storage, translation, real-time processing, mining, and analysis, all of which can yield actionable insights from the data collected by IoT applications. There is also a chapter on edge/fog computing. The second half of the book presents various IoT ecosystem use cases. One chapter discusses smart airports and highlights the role of IoT integration. It explains how mobile devices, mobile technology, wearables, RFID sensors, and beacons work together as the core technologies of a smart airport. Integrating these components into the airport ecosystem is examined in detail, and use cases and real-life examples illustrate this IoT ecosystem in operation. Another in-depth look is on envisioning smart healthcare systems in a connected world. This chapter focuses on the requirements, promising applications, and roles of cloud computing and data analytics. The book also examines smart homes, smart cities, and smart governments. The book concludes with a chapter on IoT security and privacy. This chapter examines the emerging security and privacy requirements of IoT environments. The security issues and an assortment of surmounting techniques and best practices are also discussed in this chapter.
This book presents the combined proceedings of the 8th International Conference on Computer Science and its Applications (CSA-16) and the 11st International Conference on Ubiquitous Information Technologies and Applications (CUTE 2016), both held in Bangkok, Thailand, December 19 - 21, 2016. The aim of these two meetings was to promote discussion and interaction among academics, researchers and professionals in the field of ubiquitous computing technologies. These proceedings reflect the state-of-the-art in the development of computational methods, involving theory, algorithm, numerical simulation, error and uncertainty analysis and novel application of new processing techniques in engineering, science, and other disciplines related to ubiquitous computing.
What may be the consequences for the performance of an organization if all stakeholders are not consulted regarding ThingWorx? Can we do ThingWorx without complex (expensive) analysis? What problems are you facing and how do you consider

ThingWorx will circumvent those obstacles? How do we accomplish our long range ThingWorx goals? Do we aggressively reward and promote the people who have the biggest impact on creating excellent ThingWorx services/products? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make ThingWorx investments work better. This ThingWorx All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth ThingWorx Self-Assessment. Featuring 700 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which ThingWorx improvements can be made. In using the questions you will be better able to: - diagnose ThingWorx projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in ThingWorx and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the ThingWorx Scorecard, you will develop a clear picture of which ThingWorx areas need attention. Your purchase includes access details to the ThingWorx self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard, and... - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation ...plus an extra, special, resource that helps you with project managing. INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

In today's competitive global markets, simply making a great product is not enough. To achieve profitable growth and stand out among competitors, you must start to strategically compete through service and innovative solutions for business customers. Professors Christian Kowalkowski and Wolfgang Ulaga guide you how to shift your business from a goods-centric to a service-savvy model. The authors' proprietary twelve-step roadmap to profitable service growth will help you break out of a narrow product-centric logic and discover how to determine if your company is "fit-for-service," make the most of your existing services, innovate and create value-added services and customer solutions beyond your products, embed a true service-centric culture in your organization, drive change and align your service strategy with

corporate goals, transform your product-centric sales force into a service-savvy sales organization, design an organizational structure that promotes service growth, and align your interests with distributors and partners. Kowalkowski and Ulaga's twelve-step roadmap is based on rigorous research and long-standing experience working with businesses. They have worked with hundreds of managers in industrial and professional services companies, conducted research projects, led executive workshops, and published numerous articles in scientific and managerial journals, including Harvard Business Review, among others. Here, they share not only their own insights but the lessons learned from successful case studies and years of extensive research.

This book constitutes the refereed proceedings of the 8th International Conference on Software Business, ICSOB 2017, held in Essen, Germany, in June 2017. The 11 full papers and 5 short papers presented in this volume were carefully reviewed and selected from 30 submissions. They were organized in topical sections named: software startups and platform governance; software business development; software ecosystems and App stores.

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